



Banamali Patnaik, Education Minister inspecting the Guard of Honour at the State Level Independence Day parade at Bhubaneswar

Shri Harihar Patel, Minister for Industries. Commerce and Public Relations is taking salute at the ceremonial flag hoisting at Sambalpur on the 15th August, 1970



condensed record of the vities and official announcents of the Government of sa and other useful informant. Many items appear in nmarised form. Such items ould not be treated as complete d authoritative versions.

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Our Progress in Agricultural Production

ended in The Third Five-Year Plan Five-Year rch, 1966. But the Fourth an had to wait till April, 1969 to begin mally. The plan programme, its tarts and the respective financial outlays the Fourth Plan have been finalisted ly recently. Thus the period from April, 66 till March, 1970 was indeed a period thout any long term plan programmes. lis was also a period full of uncertainities th regard to financing the plan progra-Three Annual Plans were inmpleented during this period and the proammes drawn for the first year of the Ourth Plan. Under the stress and strain limited funds and restricted programms, the progress in agricultural sector has een obviously halting. This unfortuately happened at a time when with the ntroduction of high yielding varieties of ice and certain other crops and the intenagricultural practices, Orissa was Doised for putting up a high rate of annupast. al growth unprecedented in the

However, through certain Governmental measures which helped in streamlining the supply of seeds, fertilisers, pesticides and above all credit facilities, not only the unfavourable situation created by lean finances and restricted programmes could be saved, some definite progress could be achieved in agricultural production. A achieved in agricultural production. A brief account of the progress made in production of various important crops during the period from 1966-67 to 1969-70 may be relevant.

FOOD GRAINS PRODUCTION

Rice—Production of rice increased from 36.92 lakh tonnes in 1966-67 to 44.47 lakh tonnes in 1969-70. This spectacular increase of the order of 20.4 per cent within a period of three years was made possible by popularising the cultivation of high ble by popularising the cultivation of high yielding varieties especially in Rabi—Suyielding varieties of rice increased almost yeilding varieties of rice increased almost

five-fold during these three years from 36,000 hectares in 1966-67 to 1,70,400 hectares in 1969-70. But the total under rice increased by 2.7 per cent only. The average yield of rice has been recording a steady increase too. From 8.68 quintals to a hectare it increased to 10.18 quintals.

Wheat—Although the area under wheat has recorded only a negligible increase since 1966-67, the production increased from 14,000 tonnes to 19,000 tonnes in 1969-70. Replacement of conventional varieties by high yielding varieties in a substantial part of the wheat area pushed up the average yield of wheat and increased the production by about 36 per cent. From 8.96 quintals per hectare in 1966-67 the average wheat yield increased to 11.77 quintals in 1969-70.

Maize-Koraput, Phulbani, and Mayurbhanj continued as important maize growing districts. The total under maize increased from about 53,000 hectares in 1966-67 to 70,000 hectares in 1969-70. But this increase was not shared by the hybrid maize varieties inspite their higher yield potential. The cost of seed of hybrid maize varieties and the necessity of buying seed for every crop did not make it popular among the cultivators growing maize. Recently composite maize varieties which derably higher give consiyield than varieties have been introduced. Unlike hybrid maize varieties, seeds of composite varieties can be kept by the farmers from their own crops year after production of maize increased from 49,400 tonnes in 1966-67 to about 60,000 tonnes in 1969-70.

Ragi (Mandia)—The area under Ragi increased by about 50, 000 acres during the period from 1966-67 to 1969-70. From an area of 1.62 lakh hectares during 1969.70 an estimated production of 160 lakh tonnes of Ragi has been achieved. Ragi is the most improtant of all the millets grown in the State. Although it occupies about 39 per cent of the total area under millets it shares 53 per cent of the total miles production.

Production of all cereals—All cereals grown in Orissa such as rice, wheat, major ragi, bajra, jowar, etc., taken together covered 48.01 lakh hectares and produced 47.66 lake was 45.44 lakh 47.66 lakh tonnes in hectares and the production was 39,20 lakh tonnes tonnes. A simple analysis shows while the while the area under cereals increased by 5.6 per by 5.6 per cent, the production increased by 21.5 per by 21.5 per cent during the period in 1966-67 to 1988 1966-67 to 1969-70. The efforts made the direct: the direction of increasing agricultural production production of increasing agricultude area under cultivation cultivation seems to have been fruitful to a large extent large extent. Through intensive methods cultivation recommended package of practices, multiple cropping it high yielding been prossible to increase the productive without increase without increasing the area under cultivation. The increase the production of the pr tion. The increase in cropped area above was decrease in cropped area. above was due to multiple cropping.

Kulthi, Arhar and Gram as a group of crops in Orissal i The area under pulses has increased to about one label. about one lakh hectares from by 1969-70 and by 41,000 increased by 17 per cent, the production under u ORISSA REVIEW—SEPTEMBER, 1970 he irrigated land from pulses to a nd crop of rice pushed out pulses to tively less fertile land. As a result the eses production could not keep pace with increase in its area. Growing more of ses in Kharif season in place of low yielg millets, cultivation of improved veriewith higher yield potential and use of tillisers and becterial inoculations will viate the depressing conditions in pulse duction and maintain the balance betten production of cereals and pulses.

foodgrains—Production of foodgrains increased from 43.55 th tonnes in 1966-67 to 52.41 lakh mes in 1969-70. This increase has been ared by almost all the food grain crops. nilarly the recent introduction of P. H. 1, a high yielding castor variety is pected to increase castor production nsiderably without increase in its area.

Creased from 17.70 lakh tonnes in 1966-67
21.50 lakh tonnes in 1969-70. There has
en little increase in its area. The
creased production has been achieved by
crease in the yield per hectare which has
en pushed up from 49 tonnes to 58 tonnes
f sugarcane per hectare. During 1968-69
nd 1969-70 the sugar factories in the
tate utilised their crushing capacities to
he fullest extent. The price of gur has
one down considerably and therefore
eturn from sugarcane crop has been
dversely affected. Although the higher
production from unit area has made up the

return to some extent, the repercussion of low price is likely to be felt in the following years. The cultivators have now shown reluctance and feel hesitant to adequately invest on inputs required for growing a successful crop of sugarcane.

A new sugar factory of a crushing capacity of 1,250 tonnes of sugarcane per day is under installation at Bargarh. Sugarcane cultivation over an area of about 4,000 hectares in the area within 20 kms. around Bargarh has to be developed within the next two-three years to feed that sugar factory adequately.

Jute and Mesta—During 1969-70 from an area of 45,000 hectares, 3·20 lakh bales of jute were producted (one bale = 180 kgs.). The average yield was 7·11 bales of jute per hectare. As compared to the position in 1966-67 the area under jute incerased by only 2,000 hectares whereas the production increased by 37,000 bales. Similarly the production of mesta recorded a higher rate of increase in production to the increase in its area. The area under mesta increased by 8,000 hectares and the production by 62,000 bales. In 1969-70, from an area of 24,000 hectares, 1·22 lakh bales of mesta were produced.

Recently through centrally sponsored schemes efforts are made to push up the production of jute to help export promotion. Foliar feeding of nitrogenous fertiliser coupled with spraying of insecticides has been applied in large areas free of cost to achieve higher production of jute.

A statement showing the production of certain important crops is given in Table-1

TABLE 1 Production of foodgrains oilseeds, fibre and sugarcane from 1966-67 to 1969-70

			0		
Crop	Unit	1966-67	1967-68	1968-69	1969-70
(1)	(4)	(3)	(4)	(5)	(6)
Rice	Lakh tonnes	36.92	37.55	42.12	44·47 3·19
Other Cereals Pulses	Ditto	2•29	2.63	2.99	4:75
i dises	Ditto	4•34	3.39	4.46	
Total foodgrains	Lakh tonnes	43.55	43.57	49.57	52:41
Oilseeds (excluding- niger)	-Lakh tonnes	1.62	1.71	1.70	1.82
Sugarcane (interms of gur)		1·7 7	1.81	2·10	2·15
Jute and Mesta.	Lakh bales	3.44	4•59	4·10	44

AGRICULTURAL INPUTS

During the period of past three from 1967-68 to 1969-70 certain changes in the policy of the Government have been brought about with regard to the supply of inputs such as seeds, fertilisers, plant protection chemicals and equipments, agricultural machineries and supply of credits. The most important change brought about by the State Government was in respect fertlliser Private manufacturers of fertilisers distribution. have

been inducted to take up the supply of fertilisers which was the monopoly of operatives

Since the Kharif season of 1969 fertilisers e being supplied are being supplied both by the private dealers and Co dealers and Co-operatives.

During a private the period of only to of the only the of period of only two crop seasons project of this changed bever of this changed policy has been made beyond doubt beyond doubt. Fertilisers have at the light of professional and are the second and the second are the second ar available in adequate quantities at the tree of need. It has a the tree of need to the available in adequate quantities at the top of need. It has been also possible the trend in the direction ORISSA REVIEW—SEPTEMBER, 1971

lisation with the three major plant and namely, nitrogen, phosphorus and ussium. Supply of complex fertilisers taining together more than a single plant nutrient has paved the way towards balanced fertilisation.

Consumption of fertilisers in tonnes from 1966-67 to 1969-70 is given in Table 2.

TABLE 2 Consumption of fertilisers

/	Consumption of Jerri		1
Year	Nitrogenous (C. A. N.)	Phosphatic (Single Super)	Potassic (Muriate of Potash)
		22,377	2,030
56-67	 63,923	28,089	3,140
67-68	 70,575	32,652	3,714
⁶⁸ -69	 78,586	37,500	5,000
169-70	 95,000	37,300	
stimated)			the orea The

From 1966-67 to 1969-70 consumption of itrogen has increased by 50 per cent, hosphate by 68 per cent and potassium by 150 per cent. Although the rate of increase in fertiliser consumption appears be apparently satisfactory it is far from the level of adequacy. Therefore, efforts are made to facilitate availability credits and intensify sales promotion measures to increase fertiliser consumption speedily.

Production and supply of improved seeds are mainly the responsibility of Government Agencies. A seed act has been recently promulgated to ensure production and supply of good quality seeds. Certification of seeds has been also Aundertaken.

As in case of supply of fertilisers, the private traders have been allowed to deal in plant protection chemicals. This has made it available in a wider area. Agro and Small Industries Corporation has been entrusted with the supply of agricultural machineries and equipments

Through special schemes for particular purposes, credits in kind are made available to the farmers by the Government directly through the Department of Agriculture. Credits in kind and in cash are also channelised through Co-operative Societies. Apart from the Governmental sources, various other financing agencies such as Refinance Corporation and Commercial Banks have recently entered into the field of financing agriculture with both short term and long term credit facilities.

SPECIAL SCHEMES FOR AGRICULTU-RAL DEVELOPMENT.

In recent years the strategy for increasagricultural production has 5 ing

based primarily on intensive cultivation measures and high yielding varieties. Special schemes such as High Yielding Variety Programme (H. Y. V. P.), Intensive Agricultural Area Programme (I. A. A. P.). Intensive Agricultural District Programme (I. A. D. P.), Package Programme on groundnut, jute and mesta launched to popularise intensive cultihave vation measures and high yielding varieties.

Under the H. Y. V. P. efforts were made to bring more areas under the high yielding

varieties of rice, wheat, maize and jour along with adoption of intensive cultivation measures. Special attention was paid application of fertilisers in recommended doses and plant protection measures to the high yielding varieties, the success of which depends particularly on these this measures. The area of operation of programme has expanded from 42 C. I. Blocks in 1966-67 to 80 Blocks in 1969.7

The area brought under high yielding varieties is shown in Table 3.

TABLE 3 Progress under high yielding varieties progra une

(Area				ea in hectaits		
	Crop		1966-67	1967-68	1968-69	1969-70
Rice						1,70,400
Wheat		••	36,000	85,200	1,44.400	7,200
Maize		••	1,200	3,600	4,400	5,200
Jowar		• -	5,200	4,400	4,400	880
			240	270	1,000	
	'Total					1,83,680
	- Ordi	• •	42,640	93,470	1,54,200	hell

The area of operation of the Agricultural Area Programme Intensive has expanded from 40 C. D. Blocks in 1966-67 to 96 Blocks by the end of 1969-70. About one-third of the area in each of these Blocks has been covered intensive cultivation measures. under

The Intensive Agricultural Programme (I. A. D. P.) was launched District in the district Sambalpur in

Hirakud ayacut in 1962-63 with the list of the Ferrica and 1962-63 with the list of the Ferrica and the list of the list o of the Ford Foundation of U. S. A. p. area of operation has covered Supply Blocks box. Blocks having assured irrigation The broad objective of this programment to achieve of an all out development adoption adoption plans, puring period between 1000 and plans, puring period between 1000 and production plans, puring period between 1000 and production plans, puring period between 1000 and period period between 1966-67 and pout production plans. period between 1966-67 and 1969-70 period plans covering farm families and about 60,000 ORISSA REVIEW_SEPTEMBER, 197 en put into operation. Besides, a covered under farm production a much larger area is covered with nended package of practices. The of this programme has indeed ormed the agriculture from an rent subsistent farming to a fic production one in the area of its ion.

progress in agricultural sector; the past three years from 1966-67 19-70 has been encouraging in spite natural calamities such as the e and coupled with heavy rains swept over the coastal belt of the during 1967-68 and in Ganjam t in 1968-69 and the floods and

droughts affecting different parts of the State. The attention paid to the development of agriculture through special schemes has been fruitful. The change in the Governmental policy with regard to supply of agricultural inputs has paid rich dividends even during a very short period. More and more attention is being given at present to build up the requisite infrastructure, especially development of minor irrigation and rural electrification to strengthen the agricultural economy of the State. With the enthusiastic support and involvement of the farmer community, the in agriculture will continue progress still at a higher pace than achieved ever before.

und ou economie teconoi.

'Nabanna' or 'Nuakhai'

'Nabanna' literally means the 'new food'. Rice being our staple food, the general import of the word 'Anna' has been narrowed down to the particular connotation of 'rice'

Nabanna is the annual festival agricultural people, celebrating the first maturing of rice in the 'early variety' plants. Actually, the conomic significance of this festival is los, in the regions where irrigation facilities have helped the cultivation of a series of crops round the year. Elsewhere, the poor yeomen have waited in great privation, toiling through the scorching summer and the torrential rains, for the mother-earth to send up their nourishment through the rice-plants. Now that it is time for the early crop to be harvested, the festival marks both a communal jubilation over it and an economic recognition that it is time to redress the poor man's need. Both the ideas are reflected in the convention of big farmers making substantial presents of rice and cloth on this occasion to their dependents, and the poor the poor people in the village, generally,

It is a festival of the entire state Orissa. But only in the Western region of gal the State does it evoke a picture of gal Whereas in the other parts of Orissa festival is act. festival is celebrated by individual familiaccording according to their convenience period of according to their convenience period of six nonths, in the Western religions to their convenience over the whole period of six nonths, in the Western religions in the whole period of six nonths, in the whole period of six the whole population celebrates it seeds a much short a much shorter span between the moon in th and the thirteenth days of the month of 'Bhadan and the seeking in speaking in the seeking in th month of 'Bhadray' (broadly speaking, month of September 1997) month of September). This short spans to the value there to provide thow room to the localities for th localities for their regional content participations and the second content participations and the second content participations and the second content participations are second content participations and content participations are second content participations are second content participations are second content participations are second content participations and content participations are second content participations are second content participations. But it has also an ulterior, and to make fication. A localities for their regional convenient calls and the same fication. fication. A locality is supposed und that is found to the day that is auspicious of the day that is the day that it auspicious either to for example. auspicious either to the regional modely of the regional modely of the regional modely state of the ruler of or example, Samaleswari at Sample or to the ruler of the old princely people for example of the old princely people of the old pe for example, Shri R. N. Balangir present Chief Minister, at Balangir and Balangir a ORISSA REVIEW—SEPTEMBER, ill whose fate the fortune of the people as supposed to be bound. Traditionally, e festival marks an auspicious annual orship together, of the deities of the field, the family of the clan, of the locality, ld of the universal Goddess Laxmi, for thering in happiness and prosperity for te year to the individuals and the commuity as a whole.

The festival is in the tradition of the orship of 'Ar na' as enjoined by the Vedas. oreover, its central inspiration having emmed from the ancient fertility-rites, 16 'Nabanna' ceremony can be found to ave its correspondence in various festivals ll over the world, both current and antic. Vhatever be its metaphysical justification, custom fosters excellent communal armony and family unity. As a social ccasion the Nabanna or 'Nuakhai' as it called is of incomparable joy and signicance in the life of the people of the Vestern region of Orissa. In order to feel he real pulsation of it, however one has o go to the villages. The towns celebrate tall right, eating heavily and going gay in Stoups. But then the impacts of seculariation, of materialism, of political bigotries (even 'Streetism') and of an increasing divorce from the contact with Nature, have all combined to creat a feeling of partindifference and part-fashion. For sensitive soul who has migrated with his family from the village, there is an awful of nostalgia and regret on this day.

In the villages, the manifold preparations for this function begin quite a few days before the auspicious day. The entire house and all the utensils and clothes are cleaned—the rich give a white-wash their walls; the poor plaster coloured soil and con the walls, and cow-dung over the floors and the walls,

and then decorate them with flowery patterns and pictures of deities. The weekly market which falls prior to the Nabanna is a stirring affair. A variety of things are to be purchased, and the poor swain who goes there with a tall order and a modest purse has to be endlessly making his small arthmetics, moving from stall to stall, finding out the cheapest and the best. Ghee, oil, potatoes, spices, molasses, soap, scented oil, 'Alta', bangles, clothes, and so the list lengthens. It marks one of the most crowded and busy market—days in the year.

The series of preparatory activities culminate almost in a frenzy on the penultimate day. For, then, all the articles necessary for the ritual, and what is more exacting, the commodities for a gala feast spreading through the whole of the next day, are all to be kept ready. If the auspicious hour happens to fall sometime on the early part of the day, the housewife can hardly afford the luxury of a wink of sleep. The ritual needs very ordinary things, may be but making the arrangements is really troublesome as the items are quite large in number—'duba' grass, mango-leaves, (for hanging above the doors is a mark of holy welcome), coloured powders of various sorts, fruits of many kinds, sandal-wood paste, wicks, nibara and pasari (varieties of wild growing rice) make puffed rice with, etc. Similarly, for purposes of feasting, the vegetables are all to be placed and kept ready under cover of wet clothes, spices are to be powdered or ground into pastes, rice grains are to be shifted, a few types of cakes are to be kept prepared as offerings (such as, Arisa and Suarri), and so on. Usually, hands are not wanting for these activities because on this day the entire

family is there. Since this is the most important annual festivity, all the members of the farily are required together. But there is an amount of social cumpulsion, too. The custom of the 'Nuakhai' involves the participation of the whole family. If someone is absent the festival is dislocated for the entire family—that is, if they go by orthodox standards. One can, of course, celebrate it with his family on some other auspicious day that is found convenient. But, in that case, it becames a most trying thing--according to the existing convention, one becomes ostracized from the community in matters of food and drink. One is supposed to neither receive from nor offer food and drink to a person who has not yet solemnised his 'Nuakhai'. Till one has had it, one cannot even take the services of the menial servants—for even the water they touch can no longer be drunk by such a person. Only if some one of the family in living memory has died on some 'Nuakhai' day, they are exempted from celebrating it with all others. Thus both on grounds of sentiments as well as convenience it is rather hard for a family to miss the day's rites and revels.

The much longed-for Naakhai arrives. Long before the morning finally dims, the housewives are already at their regular posts—with this difference, may be, that no one has any thing to complain this day; in unusually large quantities, a variety of dishes are made ready. Much before the Sun is up, the children and others who have still defied the resounding clang and bustle, are made to leave their beds. While someone herds the children to the well or the tank to scrub them to their fairest, all the beddings are neatly stacked to one corner, and the house is once again thoroughly swept and cleaned. With day,

shining-attired in new everyone is garments. Fresh and beaming, they a join the chore. The housewife now look after the deities; usually, she is only charge of the worship of goddess Laxing and other household Gods,—It is the master of the family who has to go to the fields to do some worship there, and on return, to attend to the worship of family deity. The worship over, each of goes to pay obeisance to the deities. estables are then kept ready, and the wait fasting till the auspicious hour arrive Then leaf plates are spread for the entire family. With a lump of pasty preparation in the in the middle of each plate, the various items of items offered to the gods are served.

This is the only occasion when all the male and female members of the family sit down sit down together to eat. They handless pasty food—made out of molasses, banding ghee, passes: ghee, pasari 'puffed rice' and a few grains either powed either powdered or whole, of rice narrow the husks-with all the five fingers narrow ing to it are ing to it, and at one time all of them it. After tall it. After taking the 'prasad' leity. again bow down before the elders in the each one bows to his or her elders one family. family. Indeed, on this or her elders one supposed to meet and seek the locality of all one? of all one's senior relations in the local for a happy for a happy and prosperous year. shall is a local saying which means if we are exchange exchange good-will once again if we alive for another. alive for another year. The elderly usually make the usually make this poignant remark meeting the von

With this, the sacred ritual is Eating But the secular affairs still remain. Playing both indoor and outdoor and aless successful and revolar affairs. and revels follow in an endless into for the whole of the day and far into OBJECT THE day and rate of the day and rate of

ht. If one has the appetite for it, one really taste hundreds of preparations this day-for exchange of delicacies ween families is an established custom. other interesting feature of . the day's ing consists in the preparation of tton-curry in the evening. urally go up for 'Nuakhai' is not felt be complete without the consumption of vy quantities of meat the same ning.

By the time the revels are all ended, the new garments have gone dirty, the faces are pale with too much gaiety, and after almost twenty-four hours of busy festivity, everyone is impatient to take rest. 'Nuakhai' is over for a year. The problems of life are again to be recokoned with from the next morning. Till then, there is the sleep of exhilaration.

AMONG ENGINEERS AND DIPLOMA HOLDERS UNEMPLOYMENT IS A BIG PROBLEM

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Managing Director Orissa State Financial Corporation Barabati Stadium, Cuttack-5

State of Indian Agriculture

Abundant satisfaction at the present performance with a record production for the bright re is the Keyersian on the agricultural for the bright for a production bright for a same for the bright for third year in succession on the agricultural front and cautious optimism for a pright future is the Keynote of the Union Agricultural front and cautious optimism for a 1969-70. future is the Keynote of the Union Agricultural front and cautious optimism for a 1959-70.

Assured of au all time high record products and cautious optimism for a 1959-70.

In the succession on the agricultural front and cautious optimism for a 1959-70.

Assured of au all time high record products and all time high record products. Assured of au all time high record production of 100 million tonnes of foodgrains, it mentions of progress towards a break-through the mentions of progress towards a break-through in the production of high yielding varieties production of covered power, bairs and high production of high yielding varieties production of covered power, bairs and the production of high yielding the production of covered power in the production of the of paddy and hybrids of jowar, bajra and maize, and considerable improvement in the production of commercial crops including jute.

It is expected that the foodgrains production during 1969-70 will touch a new high level of about 100 million tonnes, which exceeds the previous record production of 95.1 million tonnes in 1967-68 by about 5 million tonnes. This increase is mainly due to the enthusiastic response of farmers to the adoption of new technology. Although the achievements in regard to high yielding varieties of paddy and hybrid varieties of jowar, bajra and maize are not as spectacular as in the case of wheat, there is every indication that progress is being made towards a break-through. The production of rice and wheat in 1968-69 touched new record levels and production of wheat this year is going to be substantially higher than the record production of 18.7 million tonnes in 1968-69. Similarly, the production of

rice in 1968-69 also touched a new reconstitute. In 11 In the current year 1969-70 oduction jute production at 56.1 lakh bales low level distinct recovery from the very low of 29.3 labels. of 29.3 lakh bales in 1968-69. The properties also in tion of other commercial crops is also pected to pected to register increases over all previous vocations in the previous vocation vocation in the previous vocation in the previous vocation in the previous vocation vocation in the previous vocation vocatio previous year's level. The report at emphasized the need to strengther extend the new agricultural strategy agricultural strategy cover wider areas through a supply throu programme aiming at developing and mentary food mentary foods, bridging the protein promoting of promoting extensive programment, conservation conservation and land development, reforms the pressure steps. extensive programmes conservation and land development, leting the process of land the culture stepping up in level stepping up irrigation from the maximum potes. process of land report the the level of 36 million hectares to potential of about the poten Potential of about 82 million ORISSA REVIEW—SEPTEMBER,

most important among the followasures initiated by Government, the mentions, is the mobilisation of from the commercial banks and sourc<mark>es for agricultural development.</mark> cond step is of giving attention to the submarginal small farmers, rs and the landless labour. This ation, the report says, led to establish-Small Farmers' Development ies beginning with 45 districts, which provide the necessary custom service nputs and facilitate credit. What is this pattern is beginning to influence ormulation of area schemes of agriculdevelopment by commercial banks

The third aspect relates to develophowsoever selective, of the techno-

of dry farming in areas with deficient fall and yet higher production poten-In the beginning this new strategy nproving dry farming will be impleed in selected areas in compact blocks nd, belonging to private farmers. For chronocally drought prone areas also, neme involving Rs. 100 crores in four s up to 1973-74 is being envisaged ide the Plan. The main emphasis of programme will be on permanent devenent works and not on temporary relief Sures, and on providing remunerative k to rural labour in these ally, greater emphasis is being placed the concept of integrated area developas demonstrated not only by the De but also by experiments like ndi Project.

development has become significant two reasons. Firstly, in view of the results it can yield in areas of new igation works (or areas served by cluster works such minor irrigation be wells) by an integrated organisation

of the various inputs, demonstrations, training, marketing, storage, etc., secondly, in view of the need for integrating development of animal husbandry, piggery, sheep, etc., with crop development in mutually beneficial programmes. Several schemes on these lines with proper adjustments to suit local conditions in different States and regions of the country, are to be implemented during 1970-71.

STRATEGY FOR DRY LANDS

A two-pronged effort for development of agriculture in dry areas include research for evolving special techniques for maximum returns from the available soil and moisture resources of dry areas, and organisation of necessary infrastructure and training.

MINOR IRRIGATION

Significant advances are being made in the development of minor irrigation particularly in harnessing groundwater resources through extensive use of electric power in remote rural areas.

assessment Measures for survey in the of groundwater sources were intensified and it is proposed to establish in 1970-71, threee more Regional Water Management Pilot Projects, in addition to the already in hand. IADP

The question of extending the Project concept to spearhead total agricultural modernisation programme for the country as a whole, as recommended the Expert Committee is under active consideration of the Government.

of pulses. In regard to the production commercial cotton and other oil-seeds, 13

crops, efforts are afoot to evolve highyielding varieties of seeds and a package of practices and field traits are being pursued on selected basis.

SPECIAL AREA PROGRAMME

The centrally sponsored scheme for the provision of market complexes and rural roads is being implemented command areas of Kosi, Nagarjunasagar and Tungabhadra as an integral part of a comprehensive agricultural development programme. Projects for Pilot desert development involving schemes of soil conservation, afforestation, minor irrigation and agricultural development were initiated in Gujarat and Haryana. Such schemes for arid areas of Rajasthan are. under consideration.

SOIL CONSERVATION

Integrated programmes of soil and water conservation have been taken up in different rainfall zones in all States, soil conservation schemes in the catchment areas of 13 major River Valley Projects and Pilot Projects for reclamation of lands were initiated in the States of Uttar Pradesh, Madhya Pradesh, Rajasthan and Gujarat.

FERTILIZERS

The report mentions of a very satisfactory situation in the matter of supply of inputs, specially fertilizers. A nation-wide campaign has been launched to promote fertilizer consumption on large scale. Measures like Centrally Sponsored National Demonstration Programmes, training of farmers in techniques of fertilizer application and publicity through audio-visual aids were initiated besides

strengthening the existing soil testin, The distribution system facilities. fertilizers was liberalised. Extension and other measures were organised for promot ing balanced use of fertilizers. Measure for provision of larger amounts of credi through institutional sources for greate consumption have also fertilizer taken.

SEEDS

As a result of co-ordinated efforts to produce quality seeds, the country is now in a box the internal demands but also the demands markets. National Seeds Corporation has played a key role in the production and certification of quality. of quality seeds. The Corporation exported small ed small quantities of seeds, maize, jown and vegetal. and vegetables to Ceylon, Malaysia The Ghana and wheat seeds to Denmark. Corporation has also encouraged and assist ed the indied the indigenous industry to develop and manufacture processing equipment like seed cleaners, driers, elevators, shellers and moisture and moisture meters.

In the sphere of plant protection significant headware ficant headway has been made in gleet of operations. The strength of the made agricultural than three-fold to 66 and 2.9 lakh hectars of cropped are of cropped area were treated against pes and diseases

Agro-Industries Corporation have Nagrilant set up in all the States except under an integral device. programme New hanisation. development of farm mechanisation farm dimension machanisation by the setting up of machanism and the setting up of machanism nery-hiring centres and customer-servicing ORISSA REVIEW—SEPTEMBER, 1971

tractors in the country is expected to
to 22,000 as compared to 15,500
ing the previous year. In addition
ut 35,000 more tractors are being
orted. Large-scale import of power
rs, tractor tyres, spare parts and disc
rows has also been arranged.

CREDIT

urther advances have been made in the ituti<mark>onalisation of agricultural credit</mark> The 1 a 'multi-agency approach'. ntum of credit supplied by co-operas is expected to rise to Rs. 640 crores 1969-70. The Agriculture Refinance assistance por<mark>ation has stepped up its</mark> minor irrigation schemes and is also ing assistance for construction of govns and silos. The Agricultural Finance loans totalling poration sanctioned 87.92 crores by the end of November 9 to various programmes including rgisation of irrigation wells.

RESEARCH AND EDUCATION

Two new high yielding long duration leties of paddy, namely, Jagannath, and ideal for cultivation during kharif even in areas which were subjected frequent water logging, have been Proved for release. Sugarbeet cultivahas shown good results and the crop pears to be suitable for fitting into the pping schedules in the northern region. wheat, attempts are being made to velop 'triple called new varieties 'arf.' It has been indicated by research varieties the new high-yielding tter, wheat jowar and bajra perform tter than local varieties in even of low and normal fertility. Three

new agricultural universities—the Assam Agricultural University, Jorhat; the Punjabrao Krishi Vidyapeeth, Akola and the Haryana Agricultural University, Hissar were established during the year. A number of colleges in Uttar Pradesh have switched over to three-year degree course.

EXTENSION AND TRAINING

Special mention needs to be made for massive farmers' training programme under the centrally sponsored scheme. Nearly 3 lakh farmers have participated in over 8,200 production-cum-demonstration camps. Training arrangements in the specialised fields of plant protection marketing, farm machinery, forestry, sheep and wool development are also helping to make available larger number of trained hands in these fields.

LAND REFORMS

To remove impediments in the way of progress of new technology and for ensuring greater measure of social justice, special attention is being given to land reforms. It was decided in consultation with the Chief Ministers of States, to abolish all the remaining intermediary estates, mainly religious tenures and Inams by the end of 1970. Measures will be taken to bring tenants into direct contact with the State and to enable them to obtain institutional credit. Preparation and revision of records of tenancies and subtenancies will receive high priority. The right of resumption by land owners restricted. The State Government will take measures to enforce the ceiling legislation and give priority to consolidation of holdings, specially in the irrigated areas. Available surplus land and Government fallow lands will be distributed among landless agricultural labourers.

The report also mentioned the efforts of the Government to improve the organisation of collecting vital agricultural statistics, allied economic data and mark intelligence. It was also revealed the India would participate in the Third Work Agricultural Census sponsored by the Found Agriculture Organisation of the Unite Nations.

FERTILIZER PRODUCTION IN 1969-70

During 1969-70, the production of nitrogenous fertilizers in the country increased to 716,000 toanes in terms of nitrogen as compared with the production of 543,000 tonnes in 1968-69. This shows an increase of 32 per cent.

While only 42 per cent of country's requirement was being produced indigenously in 1968-69, the ratio went up to 57 per cent in 1969-70. As a result of this improvement, imports of nitrogenous fertilizers were reduced by 21·2 per cent from 847,000 tonnes in 1969-70.

In achieving the production targets for the year 1969-70, the Nangal Unit of the Fertilizer Corporation of India, the Kota Unit of the Delhi Cloth Mills and the Gorakhpur Unit of the Fertilizer Corporation of India ranked first, second and third respectively and, in fact, overfulfilled their targets.

Above-average production was achieved by four public sector units and three private sector units.

On the other hand, fertilizer units which showed large shortfalls from targets were the Ennore Unit of EID Parry Ltd., Kanpur Unit of Indian Explosives, the Rourkela Unit of Hindustan Steel, and Fertilizers and Chemicals Travancore Ltd.

Igricultural Development— Changing concepts in Approach

Agriculture has been the basic profession the human race. Industry and other ofessions came sometimes later after the pply of food was met. With the passage

time and development of technical lowledge, approach to higher agricultural oduction has been changing in varying egrees in different parts of the world. All approaches aimed at the development self-generating economy through igher production from unit area in unit and provision of all the production eeds of a farmer. the era lanned development began, efforts are ontinuously being made to build a strong for higher agricultural production. tor higher agricultural production efforts are reoriented from time to time depending on the needs of the country dy ances made in technical knowledge and he development of resources.

In the first two plan period, the developnental efforts mainly consisted of increasthe areas under different crops, expan-

ding the irrigation facilities through major and medium irrigation projects and popularising the use of improved seeds, fertilisers and pesticides. Agriculture continued to remain at a subsistence level and the farmers were not attracted to the small increases brought about in the production through use of improved seeds and application of fertilisers and pesticides, etc. This necessitated a change in the approach for obtaining higher agricultural production to meet the needs of the increasing population and to build up the economy of the country through exports to higher countries. The emphasis for production was naturally switched over to intensive cultivation measures through programmes like I. A. D. P. and I. A. A. during the third plan period. Towards the end of the third plan period and during the succeeding annual plans preceding the fourth plan, a break through in agricultural production has been achieved through introduction of high yielding varieties and

multiple cropping practices a new concept which is now the main strategy for increasing agricultural production and to build up the economy of the country in the shortest possible time.

With the introduction of high yielding varieties and other new techniques multiple cropping, the profession agriculture has been lifted from subsistence level to commercial production. revolutionary change in the pattern of agricultural production has been attracting a large number of people including educated young men to revert back to farming, contrary to the earlier trend of settling in government or private jobs in urban areas. This changed outlook of the people coupled with the limitations on providing employment through government and other agencies created the need for a revised thinking in the approach for development of agriculture. The mere supply of inputs in adequate quantities or concentrating on higher production in selected areas is no longer sufficient to meet the current needs of development. The hunger more water to irrigate the crops, the need to remove the disparity between small farmers and the big, the demand for credit to meet the higher investments on inputs and development programmes, the urge for better marketing and processing facilities to obtain economic returns for the investments made on the land and several such problems resulted in reorienting the policies development of agriculture. for emphasis is now switched over to the development of infrastructure already existing, to provide conditions for higher production from the agricultural farms and to reduce the disparities between the and the small farmers and between farmers in the irrigated areas and those

in the non-irrigated areas. An awareness among the farmers has already been created in a large majority of the areas to through improved increase production technology. Expansion of irrigation facility ties, availability of credit in time on liberal terms, adequate marketing facilities and price support for the agricultural produce are some of the immediate requirements identified, to create conditions for production.

The government both at the state level and at the centre have recognised such needs and steps have been taken to implement ment schemes providing conditions for higher production and to raise the economy of various class of farmers. Some of the that have been important programmes drawn up in the revised concept towards development agriculture are briefly development of ennumerated in the following paragraphs.

AGRICULTURAL CREDIT

The finance available from government urces are sources are very much limited to meet the massive needs of developmental grammes and input requirements of farmers. The met farmers. The farmers' needs have to be met through if the desired through other sources development is to be brought about. has been recognised. The nationalised banks have been have been set on the task. Till a few years ago, co-on ago, co-operatives were the main sources for advances for advancing credit to the farmers purposes of purposes of agricultural production. forward the commercial banks have come forward to advance come in additional company in addition to advance such credit to farmers in short tion to co-operatives to meet their Development Banks are actively participating in adverting in advancing the long term pur particle of the farmers with the farme the farmers like sinking tube-wells, chase of tract chase of tractors and land improvement

programmes. In addition to these institutions, Agricultural Refinance Corporation and Agricultural Finance Corporation have been sponsoring a number of where these corporations would provide refinance facilities to institutions which loans for the specific schemes are mad<mark>e available. Such developmental loans</mark> are made available either to individuals or societies or joint undertakings or corporations against adequate securities and soundness of the programmes. Crop loans with minimum guarantees are made available commercial through co-operatives and banks. This is a great advancement in the obtaining approach to help small farmers the benefits of new technology.

DEVELOPMENT OF IRRIGATION

Irrigation is recognised as the main factor responsible for agricultural producfion. But it is well-known that development of irrigation by utilising the surface and underground water resources cannot be entirely left to Government in view of the restraints on its financial resources. The major and medium projects have to be taken up by government agency whereas the minor irrigation projects including lift irrigation points, surface well, etc., have to be developed through individual or joint private efforts. To assist such private enterprises funds are made available through credit institutions, Agricultural Finance Corporation Agricultural Refinance Corporation, etc. Government provides the technical assistance in locating the basis and the state of the state the underground water or drawing up plans and executing programmes to utilise surface Water through lift irrigation and such other minor projects. The Rural Electrification money provides Corporation through State Electricity Board for draw-

ing up L. T. lines for energising the lift irrigation points, tube-wells, etc. The Land Development Banks and other financing banks advance credit for purchase of pump sets whereas the Agro-Industries Corporation is going ahead to arrange for the supply of pumping sets, spares and maintenance services. These are specific steps to increase the irrigation potential and provide facilities for the maintenance of such projects.

SMALL FARMERS DEVELOPMENT AGENCY

The benefit of planning has so far mostly gone to the farmers having holding sizes of five acres and above. The small having holding sizes below 5 farmers acres accounting for major portion of the cultivating families could not take advantage of the facilities provided in the past. viable. This become imbalance between big and the small farmers is sought to be removed by setting up small Farmers Development Agencies in Districts of Dhenkanal, Ganjam, Phulbani and Bolangir. Under this programme ton priority is given to development of irrigation, strengthening of credit structure, assisting in establishing subsidiary occupations and development of markets, etc. Assistance in the form of subsidies, credit and technical services will be directed to improve the economic condition of the small farmers having holding sizes between 2.5 to 4.9 acres. This may be relaxed a little under special circumstances.

SUB-MARGINAL FARMERS AND LAND-LESS AGRICULTURAL LABOURERS

Schemes to develop sub-marginal farmers having holding sizes below 2.5 acres and landless egricultural labourers are also

under contemplation. Under this programme, emphasis will be on provision of adequate rural employment through construction of village roads, land reclamation and soil conservation works, and by assisting the farmers to take to subsidiary occupations like dairying, poultry, goat-keeping, processing of vegetables, etc. This programme will be mostly confined to areas adjoining urban centres where there is scope for consumption of the products like milk, eggs, vegetables and fruit products.

AREA DEVELOPMENT PROGRAMME

Till now the emphasis in irrigated areas has been on increased production through efficient utilization of water and increased use of inputs. It is felt that this is not adequate to bring about the desired prosperity to the producer. Development of markets, communications, processing induestablishment of agricultural machine hiring centres and workshops and other ancillary programmes are considered vital to develop the area on an integrated basis. A scheme to develop the Salandi Ayacut on the above lines has been drawn up which is yet to receive approval of Government of India. Similar area development programmes are also in view in the avacut areas of other major and medium projects.

SELF-EMPLOYMENT PROGRAMMES

The problem of unemployment and under-employment of the educated youngmen has been worrying the Government in recent times. Government resources being limited for providing employment to all the educated youngmen several schemes are under contemplation to provide facili-

ties to agricultural graduates to take to farming with their own resources or with institutional finance. One of the proagricultural to provide grammes is graduates about ten acres each to take up farming with credit facilities from financing institutions. They have to develop the lands themselves and take up farming for which Government assistance will be made available in the form of technical services. supplies and minimum housing facilities. They will also be assisted to have subsidiary occupations like dairying and poultry. Another important programme in view is to encourage agricultural graduates to take up retail sale of fertilisers. Government will stand guarantee up to Rs. 5,000 in respect respect of such graduates so as to enable them to a such graduates so as to enable them to a such graduates so as to enable them to a such graduates so as to enable them to a such graduates so as to enable them to a such graduates so as to enable them. them to obtain credit for purchase of fertilisers lisers. Similar programmes to help the agricultured agricultural graduates to take to farming or trades. or trades relating to agricultural development ment are being encouraged by Government not only to 0 not only to find suitable employment to the agricultural agricultural graduates but also to increase agricultural agricultural graduates but also to increase agricultural production either directly of indirectly

To conclude, the concepts for development of agriculture are continuously continuously changing with the changes brought needs by advances made in science and the nying of the people. The emphasis on supplying inputs and propagating package ces over large areas continues to be important but development of other cture to commercialize agriculture growing need of the current pattern of development has to change the farmers have to take advantage different programmes to give farming a commercial status.

peratives in Orissa—An Assessment

Co-<mark>operative movement in Orissa has</mark> ed momentum in course of the ears with vigorous Government sup-In the field of credit, to which nent was practically restricted in earears, it has now been called upon to pivotal role by liberalising the loanolicies, passing of various debt relief and money-lender's acts. With the des in the general economic condition e agriculturists and to meet their new rements, the co-operative movement ed reshaping. It would be interesting and investigate how far the movehas responded to the new calls.

ACTION PROGRAMME

on the 30th June 1969, there were 7 Co-operative Societies of all categories tioning in the State with membership 2 lakhs and working capital of Rs. 87 These societies exclude those under of liquidation. The total number of eties is decreasing every year due to we implementation of phased "Action

Programme" which envisages retention of only the active and economically viable units. The percentage of rural population covered by the agricultural co-operatives 42% and the total population covered by the co-operatives of all types was 54%.

LONG-TERM CREDIT

To facilitate and meet the credit needs of the agriculturists who are responsible for stepping up agricultural production, Long-term credit is being through Primary Land Development Banks. 90% of such loans are advanced for purchase of pump sets, tractors and other agricultural implements which have direct bearing on agricultural production. During the financial year 1969-70, Rs. 2.94 crores were advanced and it is proposed to advance Rs. 6.00 crores during 1970-71. The rate of interest for this category of credit has been reduced to 9% from 94%.

SHORT-TERM AND MEDIUM-TERM CREDITS

The emphasis on this system of finance has been shifted from "Assets-nexus" "Crop-orientation" with a view to step up agricultural production. Marginal and submarginal cultivators including bhagchasis are provided with loans to the extent of Rs. 2,000 without mortgaging their lands under short-term credit and up to Rs. 1,000, under medium credit. Rs. 10.77 crores of S.-T. loans and Rs. 2.48 crores of M. T. loans were advanced by the 17 Central Cooperative Banks of the State to agriculturists; through 4,471 primary agricultural credit societies during 1969-70.

MARKETING AND PROCESSING

In the marketing sector, 11 Rice-cum-Oil mills have already been commissioned and 10 more are to be commissioned soon.

There are two Co-operative Sugar Factories at Aska in Ganjam district and Bargarh in Sambalpur district. The factory at Bargarh is under construction stage and is expected to go into production by 1972-73. Government have contributed Rs. 28.00 lakhs towards the share capital of the Bargarh Sugar Mills. The Aska Sugar factory crushed 14.94 lakh tonnes of sugarcane during 1969-70. The percentage of recovery of sugar was 9.11.

A granular fertiliser mixture plant going to be established at Bargarh in Sambalpur district. The State Government have sanctioned Rs. 4.50 lakhs to this unit towards share capital contribution during 1969-70 and a further sum of Rs. 3.75 lakhs is expected to be received as subsidy.

A Jute Marketing Co-operative Society functioning at Danpur of Cuttack district The Society procured jute worth Rs. 5. lakhs during 1969-70.

41 Forest Produce Co-operative Man Labour were functioning in the State. The L Forest object of organising these societies is provide employment to the under provide learning the lear leged adivasis. These societies take of minor forest produce like hill broad to and to a and tamarind, etc. During the current years special drive was launched in Korapul trict to enrole more adivasis as Challe for There is one Apex Society at the State to to co-ordinate the primaries.

There are 31 regulated market com ttees in the State and one more is dist very soon.

There were 52 R. C. M. S. as of 1 June 1969 with a membership of critaria and working and working capital of Rs 2,39 or There is There is one Apex Marketing the State the State. Its membership and is capital week capital were respectively 181 CONSUMER CO-OPERATIVES crores.

Eight wholesale co-operative stores netioning functioning in towns with put of 131 10,000 and 10,000 and more. 7 districts 0 to 000 already been already been covered by such trally specific Stores organizations. Stores organised under a centrally stores red scheme. red scheme. Each of these capital at received assistance. received assistance in share of a store of a rate, Rs. 1.00 lakh.

Rs. 0.10 lakh Rs. 0.10 lakh has been given as MBER ORISSA PETT ORISSA REVIEW—SEPTEMBER

have received working capital 2 lakhs each. Besides these, the Stores were organised for the workers at Barbil in Keonjhar and Rourkela in Sundargarh The Orissa State Consumers, an apex store at Bhubanewith procurement and uniform of all commodities among the stores.

epartmental store "Alka" is g at New Capital since August, other departmental store 'has also started functioning at

Cuttack since March, 1970.

Under the rural programme, all the Regional Co-operative Marketing Societies were selected to act as central consumers' stores for distribution of consumer goods and essential commodities in rural areas societies service primary through Each of the Regional affiliated to them. Co-operative Marketing Societies was given managerial subsidy of Rs. 5,000 in a period of 3 years. During 1968-69, an additional share capital of Rs. 3.70 lakhs was given to 37 Regional Co-operative Marketing Societies at the rate of Rs. 10,000.00 each to take up consumer business.

GROWTH OF CONSUMER CO-OPERATIVES AS ON JUNE 30, 1969

GROWTH OF CONSUMER CO.	Apex	Wholesale	Primary
	1	10	429
of societies	37	8857	90,416
embership	4.63	44.81	40.17
orking capital (Rs. in lakhs) · ·	3.92	152.12	155.18
lue of purchases (Rs. in lakhs)	3.83	154.70	181.47
lue of sales (Rs. in lakhs)	0.19	1.71	5.26
ofit (Rs. in lakhs)	0.19	0.98	2.49
oss (Rs. in lakhs)			respectively

NGINEERS' CO-OPERATIVE

s been decided to organise one ering Co-operative Society in each in order to provide employment to ined unemployed engineers. One ociety has already been organised urbhanj district.

y Co-operatives, whose membership

and working capital were respectively 17,622 and Rs. 20·84 lakhs. There is one Central Society, viz., 'Central Fishermen Cooperative Marketing Society Ltd., functioning at Balugaon. Its membership and working capital were respectively 122 and Rs. 18·13 lakhs. The value of catch and sales were respectively Rs. 10·66 lakhs and Rs. 12·66 lakhs.

INDUSTRIAL AND WEAVERS' CO-OPERATIVES

With a view to ameliorate the general economic condition of the skilled rural people, a number of Industrial Co-operatives were organised. There were 1,208 such societies with membership and working capital of 58,690 and Rs. 2·18 crores respectively. The values of production and sales were Rs. 1·26 crores and Rs. 1·45 crores respectively.

Orissa is renowned for her artistic filigree works and Sambalpuri handloom fabrics. These articles find good market abroad. One filigree Co-operative Society is functioning in the State with a membership of 109 and working capital of Rs. 32,676. There were 417 Weavers' Co-operative Societies which include 403 Cotton Co-operative Societies, 7 Silk Co-operative Societies and 7 Power-loom Co-operative Societies. Their membership and working

capital were respectively 48,897 and Rs. crores. The value of production sales were respectively Rs. 1.75 crores Rs. 1.67 crores. There were 10,188 weight inglooms.

There were 87 Women Co-operate with membership and working capital 4,635 and Rs. 108 thousand. These so ties earned net profit of Rs. 10 thousand.

There were 39 village community operative Societies with membership 1,360 and working captial of Rs. 6.7 These societies were organised with a vito promote fellow feeling and integramong the youths.

HOUSING CO-OPERATIVES

There is one Housing Corporation the state level to co-ordinate the activit of the 498 Primary Co-operatives. I details of their working as on June 1969 are furnished below:

	Apex	Primary
No. of societies Membership Working capital (Rs. in lakhs) Loans	·· 1 ·· 426 ·· 182·31	498 20,925 160·83
(i) Advanced (Rs. in lakhs) (ii) Recovered (Rs. in lakhs) (iii) Outstanding (Rs. in lakhs) No. of houses constructed Profit (Rs. in lakhs) Loss (Rs. in lakhs)	3·02 3·35 151·48 1·30	2·74 5·11 85·66 1,624 1·36 0·53

From the preceding paragarphs, it is evident that perceptible progress has been achieved in different spheres in the Co-

operative Sector. This was possible of due to active participation by the and the Government as well.

SOIL CONSERVATION IN ORISSA

All Agricultural production starts with e soil. No amount of irrigation, fertility, improved seeds or pesticides have any lue if the soil is not productive. It is erefore necessary that all our agricularly programmes for increased sustained oduction should primarily be concerned ith the preservation of soil.

In Orissa, unfortunately the problem of il erosion is very acute resulting in poor oduction. The various reasons contriting to accelerated erosion in the State eas follows:

SHIFTING CULTIVATION

Shifting cultivation is not only the way life for the tribals but is the main source subsistence or living. The tribals the month of January to March. They urn the forest litre after these are dried hise one or two crops in such cleared abandon the area in

search of a new patch. This form of raising crops on hill slopes is known as 'Roma', 'Bringo', 'Podu', 'Gudia', or 'Dangar' 'chassa' in different parts of Orissa. It has been estimated that about 12,000 square miles which is equivalent to one-fifth of the total land surface of Orissa, is subjected to such type of cultivation. So, erosion caused due to shifting cultivation has been engaging the attention of not only the Government but also people from various walks of life, such as the social workers, the administrators, the engineers and the soil conservationist.

STREAM BANK EROSION

The problem of erosion of agricultural land due to meandering streams and nalas, in the coastal districts is very serious. Every year hundreds of acres of valuable agricultural land are grabbed due to erosion of the stream banks. Besides meandering streams in the plains, the torrents in the hilly regions of the State play havoc and destroy valuable cultivable land by either sand casting or by erosion.

In Orissa there are about 5.4 million icres of cultivable waste land besides huge acreage of gochar (Pasture land). The cultivable waste and the gochar lands in the State remain neglected and are subjected to over grazing. As such these lands have become the major foci of erosion.

UP LANDS UNDER SHEET EROSION

The up lands specially in the hilly districts of Keonjhar, Kalahandi and Koraput, etc, are cultivated without any bunds or terraces. As such these lands are subject to sever arosion and some times the up lands are croped once in two to three years in order to avoid uneconomic yield.

SOIL EROSION IN COASTAL AREA

In the coastal areas of the State, the shifting sand dune threatens every year specially during summer, the adjoining agricultural land and make them productive. Besides, the problem of shifting sand dunes are also met along with the estuaries of the rivers like the Mahanadi, the Brahmani and the Baitarani etc.

EROSION ON THE MINE SPOILS

In Orissa large scale of mining tions to extract iron, chrome iron, kaolin and china clay, etc., are in progress. During exploration of various it is observed that the spoils are dumped in ores, hunge quantity nearby. Erosion from these spoils pose a serious problem to the agricultural land nearby. It is therefore paramount importance to stabilize these mine spoils by developing special techniques in order to check the erosion.

In order to plan and to execute the so conservation programme in the State moderet beginning was made in the year 1953 when a Soil Conservation Division wa created under the Forest Nucleus staff of one Soil Conservation Rangers, Officer, two Forest Deputy Ranger and one Forester posted to implement the programme. the sanction of the new soil conservation schemes and in view of the importance soil conservation planing in agricultural lands, the organisation was transferred to the Agricultural Department in the year 1956.

With an object of diversified use of soil and land resources in the State, the heen has been attempting to undertake various soil defence measures measures, such as: Contour Bunding, gull Plugging, Construction of diversion weirs Land levelling and Land Shapping in ayacut areas. ayacut areas, Construction of farm ponds.

Stone Well Stone Wall terracing, Bench terracing Field bunding & Stream bank protection measures measures.

Besides, the said organisation has also adertaken are undertaken an organised effort for growing commercial commercial crops like Cashew, Sisal, apple, Coff apple, Coffee & Soyabean, etc.

Till the end of the financial year been, 2.75 lakb 69, 2.75 lakh acres of up lands have soll contour bunded different that It is estimated that apart from increased yields which times runs times runs to 25 per cent or these up lands have been made fit ORISSA REVIEW—SEPTEMBER, 1970

pped every year. Previously these lands re being cropped once in two to three irs. Moreover by contour bunding se lands have been saved from further terioration.

In tribal areas where pressure on land more bench terracing on hill slopes has en done on more than 3,240 acres. here shifting cultivation is still in proess and random rubbles are available, ne terracing are being constructed to eck erosion. Till the end of 1968-69, igg acres of hill slopes have been stone rraced.

Construction of small farm ponds by bunding small streams and gullies been very popular in the drought rected areas. Till the end of the financial year 1968-69, 40 Nos. of such farm ponds have been constructed.

Pilot schemes for control of bank erosion were executed in different parts of the State with much success. of such units have been implemented till the end of the year 1968-69.

being these. steps are Besides taken for plantation of cashew over 22,000 acres of eroded land. Sisal which is a good fibre crop have been planted over 3,000 acres and the State has almost a monopoly in sisal plantation in India Last year (1968-69), the sisal fibre has fetched an amount of Rs. 4.00 laklis. Besides cashew and sisal, pilot projects for plantation of pine-apple over 140 acres and Coffee plantation over 400 acres have also been undertaken.

HINDU MUSLIM UNITY

"That unity is strength is not merely a copybook maxim, but a rule of life is in no case so clearly illustrated as in the problem of Hindu-Muslim unity. District the problem of Hindu-Muslim can easily enslave India so unity. Divided we must fall. Any third power can easily enslave India so long as long as we Hindus and Mussalmans are ready to cut each other's throats. Hindu M. Hindu M. Hindus and Mussalmans, Hindu-Muslim unity means not unity only between Hindus and Mussalmans, but between Hindus and mussalmans, the between Hindus and Mussalmans, but between Hindus and Hindus and Mussalmans, but between Hindus and Mussalmans, but between Hindus and Hindus an but between all those who believe India to be their home, no matter to what faith they belong."

(Young India, May 11, 1921)

District Gazetteers-Then And Now

A District Gazetteer is a complete and comprehensive account of the district from insects to elephants and from scoundrels to saints. It misses nothing whether under the ground such as minerals or on the ground such as miner ground such as minerals or on the ground such as rivers and mountains or in the air such as winds and clouds. It takes all human as rivers and mountains or in the air the such as rivers and mountains or in the air the such as rivers and mountains or in the such as rivers and mountains are recommended as recommended as rivers and mountains are recommended as recommend such as winds and clouds. It takes all human activity into account from the birth of the child to rites after death. While giving a contemporary account, it traces the history of human activity so far as it can from earliest time. human activity so far as it can from earliest times. It can be seen that the work of writing a Gazetteer envisages a great deal recommendation. writing a Gazetteer envisages a great deal research.

For thirteen districts, Orissa will have thirteen Gazetteers and each district will have 19 Chapters. Some will have special additional Chapters or appendices such as Dandakaranya in Koraput, diamonds in Sambalpur, Jagannath of Puri, Juangas in Dhenkanal etc. Out of thirteen districts only five had Gazetteers written many years ago. Ganjam has a manual 88 years old. Even Koraput, now revised was written 25 years ago. Seven had sketchy notes written 64 years ago. Though the old gazetteers were written by very competent people, revising a gazetteer is no easier than writing a new one particularly in Orissa where not a single district has remained unaltered and seven new districts have formed.

Considering the magnitude of the task and various degrees of difficulties encountered at all tered at almost every stage, Orissa done well in bringing out three Gazetteers and putting and putting one in the Press. I will merate merate only a few of the difficulties. greatest of all is finding suitable willing Officers. There is no glamour to You have no favours distribute. You do not catch the eye the Ministribute. the Minister or of the public except perhaps once in a once in a year. No body comes to writing If I may slang word, writing I may say with no reflection on reflection of reflection o officers there are to-day no With joy in their work and are to-day are gazetteers with joy in their work and are to-day no with joy in the properties of t their work and set about in missionary zeals ORISSA REVIEW—SEPTEMBER, 1970

eve the Imperial Gazetteers and Gazetteers of old. Another diffigetting a quick and correct report me offices. It took two years and from me to get an answer from an 60 miles away. I had to write four o an officer to get a correct answer. al problem is the system of our administration. I write to the Head office. It passes down to the junior clerk who drafts the answer. comes to me is the draft of the most clerk. An important problem language of the draft. The standard cation has so deteriorated that even ites write without an eye on accuracy. officers do not know the use of a a' and the use of the word 'and'. is as if grammar is not taught.

roblem which is almost insoluble is Corrrect the first typed script. e-typed and comes back with other which were not there before. I p in despair and leave it to the printage. Then comes the headache reading. The first proof is read 'ess. It is done twice again in eer office. Even after all these, the Print comes with many mistakes have to be left to the reader's ence. I may be pardoned for dilaon the difficulties. My excuse for is to explain the charge of slow in Orissa. A work which will bly endure for a century should not ne through in a hurry.

s being planned to add a supplement 10 years to bring it up-to-date. It is lanned to bring out a State Gazetteer rissa. When the Imperial Gazetteers written, Orissa was a junior partner and got very inadequate mention.

It is now time to write a full account. Generally the District Gazetteer is of interest to administrators, legislators, research scholars and those of the general public who may want to know any particular aspect of the district.

The first Chapter starts with an introduction bringing out the important features of the districts. It goes on to give general geographical description of the district, its geology, minerals, flora and fauna, forests and climate.

Chapter II is history from the earliest times to the present day. Chapter III describes the people, their language, customs, festivals, dances and recreation, religion, etc. Chapter IV is on agriculture and irrigation. Chapter V deals with industries old and new, small scale and large scale. Chapter VI concerns banking, trade and commerce old and new and includes private banking houses. Chapter VII is on communications whether on land, on water or in the air and includes wireless, telegraphs, telephone and tourism. Chapter VIII lists miscellaneous occupation such as carpenters, potters, etc., and includes teachers, medical practitioners and photographers. Chapter IX deals with economic trends. It discusses prices and wages, employment exchanges and in the nature of things some speculation. Chapters X, XI, XII, XIII, XIV, XV and XVI deal with different branches of administration. Chapter XVII is on social services and includes labour welfare, welfare of backward classes and charitable endowments. Chapter XVIII is on public life and voluntary social service organisation and deals with political organisation, parties in legislature and journalism. Chapter XIX is on places of interest which was previously known as Gazetteer in old Gazetteers.

I mention now certain findings of research by the Gazetteer staff :-

- (1) The Bhanja dynasty of Mayurbhanj may or may not have come out of the egg of a pea-hen. But they certainly ruled a kingdom in Orissa, Bihar and Bengal long before Rajputs appeared in Rajputana. Indeed the Bhanjas have ruled a kingdom longer than any other dynasty in the world.
- (2) Commissioner Ravenshaw did great good to Orissa by saving Oriya language from the onslaught of Bengali and by encouraging higher education. But he was a bad Ravenue Officer and was no friend of Orissa politically. was indirectly responsible for a million deaths in the Na-anka famine of 1866. He gave away half of Mayurbhanj to Bihar. Had it not been for the astuteness of Maharaja Krushna Chandra Bhanj, that half would have been lost for ever.
 - (3) The bullet wound of which Maharaja Sriram Chandra died was an accident caused by his brotherin-law Saral Sen.
 - (4) Chodaganga's battle of Tatnapur was not fought in Mayurbhanj and Chodaganga did not win.
 - (5) Leaf wearing Juanga and topless Bonda, Lanjia women Kandha and women are indelicate nor immoral. neither have a standard of morality and musical sense higher than of some of our advanced groups.
 - (6) Samlai is not a deity merely Samaleswari temple of Sambaipur. She is an all pervading spirit ruling three districts.

- (7) The original name of Patna (4) Balangir, not of Bihar was or Kumari-Patna Kuanri-Patna and its Capital Patnagarh was the seat of seven Tantric maiden one of whom was banished from
- (8) Sonepur has a wealth of archaec logical materials waiting to
- (9) Tiger and wild buffalo are fat getting extinct in Orissa.
- (10) The green revolution caused by Hirakud irrigation has put unex pected wealth in the hands farmers. Unless there is economic outlet for the surplus cash, it is likely to lead to litigation which there are indications.
- (11) Absentee land-lordism of do not grant intermediaries who do only live in the district but come and to coul to collect their share of crop and sell : sell it, is likely to lead to trouble as it is
 - as it is doing elsewhere.
 (12) While Sambalpur and Substitute Sambalpur and Substitute S Subdivisions have become arough Padme. Padmapur Subdivision is drough hit every 4th year and remains poverty poverty. This economic inhalance will also will also lead to social imbalance.
 Statistical will also lead to social imballing (13) Statistical analysis of rain fall analysis. Titilage of the social analysis of rain fall analysis of rain fall analysis.
 - Titilagarh shows recurring drougher every 4th every 4th year. This phenomenation covers covers Nuapara Subdivision
 Kalahandi district, Padmapdistrict division division of Sambalpur and Patnagarh Subdivision

Balangir district. from the welcome information whatever source it may come and welcome nature may be supposed to the supposed nature may be. We also welcome to improve (Courtsey: All India Radio, Cuttack)
ORIGO ORISSA REVIEW—SEPTEMBER,

PROBLEM OF UNEMPLOYMENT ORISSA

Provision of employment opportunites those who enter into the labour from time to time is a social obliion. The Social structure in India as as in Orissa has so far been built on a traditional base that there is little cope for absorbing the additional labour orce in gainful activities. Rapid growth population and consequent addition to abour force, displacement of labour from lifterent sectors due to mechanisation and chhological advancements, and lack of liversification of the employment opportupresent the most serious problem overne society as well as for the State iovernment.

MAGNITUDE OF THE PROBLEM

Before thinking of any realistic approach Solution of such a gigantic problem desirable to make a correct measure the rural of its dimensions both in the rural

and arban sectors. The First Plan being primarily designed to correct imbalances in the economy which emerged from war and post-war period did not give much importance to the problem of unemployment. In Orissa the Second Plan started with a back-log of about 1.64 lakhs of unemployeds with the anticipation adding about 3.26 lakhs to the labour force fore, the additional job requirments by the the five-year end of the Second Plan was estimated at 4.90 lakhs. The Second Plan envisaged generation of additional job opportunities to the tune of about 0.50 lakh in agricultural sector and 2.51 lakhs in the nonagricultural sector making a total of 3.01 lakhs*. The new entrants to labour force being about 3.26 lakhs and the generated job opportunities being roughly 3.01 lakhs it was thought that the Second Plan could be successful to a large

*Employment trend and prospect—Statewise and analysis report of Planning

extent to arrest the growth of unemployment during the period. But the actual employment opportunities generated by the Second Plan in Orissa as estimated by the Bureau of Statistics and Economics, Orissa, was only 1.83 lakhs. On basis, it was estimated that at the beginning of the Third Plan the impact of employment on account of back-log perhaps 3.07 lakhs. This was however confirmed subsequently through findings of 16th Round National Sample Survey which gave an estimated figure of unemployment of 3.15 lakhs in 1961.

During the Third Plan the number of of new entrants to the labour force was estimated at 6.51 lakhs. The of unemployment assumed problem manageable dimension during the un-Plan, which of course faced the challenge and took responsibility of creating employment to the tune of 5.22 lakhs as per the estimates formulated by the Bureau of Statistics and Economics. Therefore, the back-log of unemployment at the end of the Third Plan (i.e. beginning of the year 1966-67) was roughly 4.44 lakhs.

The Third Plan in its wake, left signs of stress and strain everywhere the to relieve the unhealthy symptoms it and necessary to make suitable adjustments in as well social The sectors. Annual Plan from 1968-69 with a total outlay 1966-67 to (expenditure) of about Rs. 170 crores is have created employment opportunities to the extent of about 3.90 lakhs. the back-log of the Third Plan Though substantially made good, the could be labour force during the three years period which was estimated at about 4.38 lakhs

increased the gap and consequently unemployment at magnitude of beginning of the Fourth Plan was of t order of 4.92 lakhs.

PROBLEM IN THE RURAL SECTOR

Though nobody aquainted with the sit tion in villages would deny the existence large scale under-employement, there lack of unanimity in assessing its meaning and assessing its meaning assessing the meaning assessing assessing as the meaning assessing assessing as a second assessing as a sec its magnitude in quantitative terms becau of conceptual differences and differences yardsticks for its measurement. However, the All-India Estimates formulated on the 16th Round N. S. S. data (rural sector) where the sector of the sector o used to work out the extent of employee employment at the end of the Second Plane Period. In the rural areas of the Stal there were 44.78 lakhs of males and 45.15 lakhs of females in the age-group of 15-10 according. according to 1961 Census. On the base of N. S. S. of N. S. S. results on rate of unemployment in rurel in rural areas, it was estimated that number of number of unemployed males and femal was respect. was respectively 1.06 lakhs and 1.37 lak making making a total of 2.43 lakhs in 1960 which may which may have increased to 3.89 lakls the beginning the beginning of Fourth Plan increases increase in labour force.

Under-employment in the field of plant liture and it culture and household industries the me are the main occupations of the labour force) labour force) is difficult to measure here of the tond of the tendency of the family workers distribute it This is the most common feature in the rural is that the addition distribute the available work, that the additional labour positively thrown out of employment it gets absent it gets absorbed in the exsiting work resulting in large control of the state of th ing in large scale under-employment therefore very difficult to measure ORISSA REVIEW—SEPTEMBER, 1970

the scale of absolute unemployment in All-India l sector. According to nates of National Sample Survey the ber of idle days per working person 104.9 days during 1952-53 and 1953-54 ing 4th, 5th, 6th and 7th and 2 days for 1958-59 (14th round), The days for 1960-61 (16th round). cultural Labour Enquiry (1958-59) wed that the intensity of unemployit was 135 days among the casual male Ourers and 239 days among female Ourers during the year. According to Farm Management studies conducted the Government of India, it was found ^{t a} male family worker remains unployed for 216 days in Orissa (1958-59)*. ^{3tudy} undertaken by he Bureau of tistics and Economics, Orissa on the sis of available data on cost of cultivation d requirements of manpower per ^{crop} area, the surplus workers depend-3 on agriculture during 1961** was about lakhs. All these go a long way to y that the degree of under-employment rural sector is really very acute. In the sence of any firm and universally acceptestimates on the subject, the All-India oportion on the labour time disposition distribution of gainfully employed according to work availability as obtained by N. S. S. studies may adopted. of gainfully hployed persons reporting availability for dditional work varied from 14.41 per cent

in 1958-59 (14th round) to 10.71 per cent in 1960-61 (16th round). On this basis, the magnitude of under-employment in 1960-61 would have been 7.70 lakhs which would be about 9.45 lakhs in 1970-71.

PROBLEM IN THE URBAN SECTOR

In spite of several limitations, the Employment Exchanges still continue to be the only regular sources for information on the magnitude of unemployment for urban areas. The number on the live register at the end of December, 1968 was about 0.93 lakhs. This figure however adjustments for (a) registration of persons who are already employed in (b) non-registration of some capacity, persons who are seeking employments but not employed, and (e) rural unemployeds who have registered in Employment Exchanges. After making these adjustments the total number of persons unemployed in urban areas by the beginning of the Fourth Plan has been estimated at 1.03 lakhs. This coupled with the unemployment in rural sector (about 3.89 lakhs) gives the magnitude of total unemployment which works out at 4.92 lakhs in the beginning of the Fourth Plan.

To appreciate the problem of unemployment in the urban sector it is worthwhile making a study of the trend of unemployment. The Employment exchange data, in spite of their limitations, throw light on

Orissa.

^{*}Rural Employment, unemployment and under employment—Published by Planning ****Sion.
****An Employment approach of Planning'—Bureau of Statistics and Economics,
sa. Commission.

the Urban unemployment trends. The on magnitude on unemployment in urba following table gives certain broad features areas from 1956 to 1968.

TABLE No. 1 Number of applicants on live registers; fresh registrations, and vacancies notified from 1956 to 1968

							Per centag
Year		No. of Exchanges Applicants on the live register (on 31st December)		Changes from year to year (+) or (-)	No. of fresh registrations during the year	istrations ing the Vacancies notified	
1		2	3	4	5	6	1
					:		25.0
1956	٠.	3	9,593		32,701	8,180	19.2
1957	••	6	12,914	(+)3,221	38,879	7,452	25.3
1958	••	7	19,225	(+)6,311	50,766	12,851	238
1959		9	20,992	(+)1,767	61,649	14,678	33.5
1960	٠.	13	39,026	(+)18,034	81,589	27,296	31.3
1961	٠.	13	70,370	(+)31,344	1,25,793	39,356	27.4
1962	٠.	13	77,346	(+)6,676	1,59,536	43,687	25.9
1963	••	13	82,836	(+)5,790	1,52,606	39,515	28.8
1964	••	15	78,425	(-)4,441	1,53,255	44,169	24.1
1965	٠.	15	87,874	(+)9,449	1,65,722	40,013	20.5
19 6 6	٠.	15	84,124	(-)3,750		34,303	15'1
1967	٠.	15	94,383	(+)10,259	1,67,335	23,881	15.2
1968	••	16	92,753	(-)1,630	1,58,333 1,40,236	21,379	muc
KO LE LINE					,		a Die

There has been a more or less steady upward trend in the number of applicants on the live register of Exchanges. From 1956 to 1960 the number on the live register

(as on the last day of the year) was pluce less on account of lack of registration facilities facilities owing to limited number changes. From 1961 the increase has ORISSA REVIEW—SEPTEMBER, 191 rom 0.70 lakhs to 0.93 lakhs in 1968, with n average increase of about 4.54 per cent er annum. The number of fresh registraions also registers an increasing trend. The total number of registrations during 967 & 1968 has however shown a cant fall from that during 1966 when it tood at 1.67 lakhs. The vacancies occur-^{ng} during different years also exihibited a orrespondingly increasing trend but those ell short of the registrations by a large nargin every year. The percentage of acancies notified to the number of regisrations in Employment Exchanges howvaried from 15 per cent to 33 per cent different years which means that employhent facilities were not available to about 10 85 per cent of the applicants. The number of vancancies notified during 1964 was however the highest after which there has been a significant fall perhaps because of recession in industrial activities and squeczing of Plan expenditure in the public sector.

It may now be examined as to what types of people have remained unemployed in the urban sector over different years. The unemployment trend of job seekers coming under different occupational groups may be analysed so that it may give an idea about future employment planning. The following statement gives the trend from 1962 to 1968 for persons of different occupations remaining unemployed.

Ocupational distribution of Applicants on live registers of Employment Exchanges in Orissa

-		1	nber on th	liva regi	ster as on	the last d	ay of the	year
	Occupation	Nur	nber on th	e live rogi		and the state of t	1968	
		1962	1963	1964	1965	1966	1967	1908
1		1502			5	6	7	8
/	1	2	3	4			2 271	5,100
. P	rofessional, Technical and allied workers—	2017	2,224	2,013	2,322	2,279	3,271	3,100
. /	and allied workers—	2,817	2,224		9.5	94	196	98
	Mmi	278	274	48	75			
	"orkers. managerral					1,169	1,812	1,920
'	Clerical and related	2,033	1,810	1,997	1,476	1,10		
	Sales Workers	_,		6	.2	3	11	13
10	Apr:	67	9		266	205	261	393
10	gricultural, dairy and related workers—	650	415	300				35
R	workers—							

Ocupation	Number on the live register as on the last day of the year							
	1962	1963	1964	1965	1966	1967	1968	
1	2	3	4	5	6	7	8	
6. Miners, quarrymen and related workers.	124	193	76	77	120	118	51	
7. Transport and Communication workers.	1,687	1,569	1,730	1,961	2,022	2,401		
8. Crafts nen and produc- ction process workers and labourers with work experience.	22,095	24,350	18,496	20,621	20,671	30,457		
9. Workers without pro- fessional or vocational training or previous experience.	41,905	43,904	50,433	57,752	52,683	50,838	55,210	
10. Service works	5,390	8,085	3,323	3,323	4,898	5,018	3,42 ³ 92,75 ³	
	77,346	82,836	78,425	87,874	84,124	94,383		

There has been a consistently increasing trend of unemployment for (a) workers in professional, technical and allied work, (b) transport and communication workers, (c) craftsmen and production process workers and labourers with experience and (d) workers without professional or vocational training. The magnitude of unemployment among workers in category (d) has been found to be largest followed by category (c). The total number in these two categories form almost 85.8 per cent of the total unemployment in the urban sector.

A declining trend in the unemployment has been noticed for (e) the administrative, executive and managerial workers, (f)

salesworkers, (g) Agricultural, dairy quarrymen and related workers and (i) service the kers. The volume of employment in clerical and allied work has remained more or lea the seven year

unemployeds gives only the types of kers seeking kers seeking employment irrespective their quality their quality and educational standards. It may be de-It may be desirable at this stage to mine the much mine the magnitude of educated unemply yeds and the yeds and their ratios to the total unemployment in the urban sector. data obtained from the Director of Employment Exchange ment Exchanges shows that the

ORISSA REVIEW—SEPTEMBER, 1970

cated unemployeds to the total number he live register increased from 8.87 per t in December 1961 to about 28.64 per t in December 1968. Even though the plute magnitude of educated unemped is much less as compared to er major States, there has been, of late,

a markedly increasing trend of unemployment among the educated persons. The following table gives the number of persons with matric and higher educational standards on the live register and their ratios to the total unemployment reported.

TABLE No. 3

unber of applicants on the live register having matric and higher educational standards

unbe	under of applicants on the tive region								
			Graduates				Total	Percentage of	
od rter ing e)	Matric	Inter- mediate	Engine- ering Medical		Others	Total	educated	educated to total number on live register	
1	2 3		4	5	6	7	8	9	
-					, all				
			20	1	611	632	6,245	8.87	
1	5,150	463			863	895	10,315	13.34	
2	8,718	702	29		1,121	1,139	12,751	15.39	
13	10,549	1,063	14	4				13.37	
i4	8,309	961			1,198	1,193			
55	12,372	892	73	1	1,119		05		
56				9	1,217		0.5 605		
57	11,283	865		2	2,029	2,162			
68	16,230	1,693	3 30		3,173	3,862	26,563	3 28.64	
08	20,200	2,50	666	23	5,2,7		Т'	he results of the	

The table given above presents a clear cture of the trend of unemployment in lucated personnel belonging to different andards. The proportion of educated rsons among the total unemployeds is pidly increasing indicating wastage of tentially viable manpower to a large

extent year after year. The results of the 14th round N. S. S. also furnished the 14th round that 36.72 per cent of the information that 36.72 per cent of the urban population were in the labour force, but of these, roughly 35.93 per cent were gainfully employed. Therefore 0.63 per cent of the total urban population were

unemployed. By the end of the Second Plan, it was estimated that roughly 35.70 per cent of the total urban population were in the labour force of which 33.96 per cent were gainfully employed and the remaining 1.74 per cent were unemployed.

The Director-General of Employmen and Training, Government of India collects data on the public sector employments in the States. The following tables give the size of such employment in Orissa.

TABLE No. 4 Employment in Public Sector in Orissa from 1956 to 1968

Branch of Public Sector	Number of employees as on (in lakhs)					
Station of Tubile Sector	31-3-1956	31-3-1961	31-3-1966	31-3-1967 31-3-1968		
1	2	3	4	5		
1. Central Government (including	0.20	1	0.29	0.42		
2. State Government	0·29	0.30	0.38	1.90		
3. Quasi Government4. Local Bodies	0.03	0.59	0.55	0.56 0.24 0.24		
5. Total	0·06 1·04	0·07 1·96	0·23 2·95	3.12		
Increase	•••	0.92	0.99	0.17		
Percentage Increase		88•46	50.51	5.76 0.32		

During the Second Plan, the employment in the public sector rose from 1.04 lakhs in 1956 to 1.96 lakhs in 1961 with an annual increase of about 17.69 per cent. By the end of the Third Plan, about 99 thousand additional employment could be provided in the public sector which was roughly

50.51 per cent higher than in the beginner of the 3rd Plan. The rate was put increase in employment size period 1,000 this period 1,000 th 10.10 per cent during this about 1966-67, only indicating jobs could in the period of jobs could be provided increase of only 5.76 per cent in the provided in the provided increase of only 5.76 per cent in the provided in the pr ORISSA REVIEW—SEPTEMBER, became still worse when only about thousand posts could be created in the control of the sector during the year (with an ase of only 0.32 per cent). The scope the public sector has however been very ed to absorb the additional labour and therefore private sector may have the responsibilities.

rural and urban sectors has fallen rily on the society as well as on the e Government. The recession in industriboth in public and private sectors and of resources for investment in public or, has resulted in limiting the employ-

ment opportunities during recent years. On the other hand, large scale unemployment especially among the educated, has resulted in wastage of enermous human resources which, if gainfully utilized could build up further economic resources for the State. The State Government are therefore faced with the problem of exploring all possibilities for profitable use of the potential human resources which are remaining idle and which are to be added from time to time with the growth of population.

Courtsey: Labour Statistics Section of the Bureau of Statistics and Economics, Orissa.

MINIMUM SUPPORT PRICES FOR KHARIF CEREALS FOR 1970-71 SEASON

The Government of India have accepted the recommendations of the Agricultural Prices Commission in regard to the minimum support prices for Kharif cereals for 1970-71 season, and have accordingly decided as follows:—

- (1) Minimum support price for standard variety of paddy will be Rs 46 per quintal. The minimum support price for other varieties will be fixed by State Governments in consultation with the Central Government after taking into account the qualitative differentials.
- (2) Minimum support prices for jowar, bajra, maize and ragi will be Rs. 45 per quintal.

Some facts about animal Husbandry

Orissa is an agricultural state and its economy is largely dependant on agriculture and animal husbandray. Nearly 70 per cent of the state's income is contributed by agricultural sector of which animal husbandry forms a part. According to census taken in 1966, the state had live-stock population of 16 millions out of which bovine constitutes a major portion Millions). The Animal Husbandry Department of the State Government is making best efforts to increase its contribution to the state's economy by raising the standard of live-stock population of the state. The programme of cattle development mainly constitutes of upgrading of the indigenous breeds existing in the State breeding Various schemes have been taken up for this purpose during the plan period which include schemes like Intensive Development, Key Village and Artificial Insemination Schemes. At present Intensive Cattle Development Block, 19 Key Village Blocks and 306 Artificial Insemination Units are functioning in the state.

Under these schemes, it has been possible to provide to provide improved breeding facilities nearly 20 per cent of the breedable boring population population only. For production of ped gree bulls gree bulls the department is running total Live-stock Breeding Farms with a total C 1,500 anim. 1,500 animals. Apart from producing teste bulls, 27,000 bulls, 27,000 litres of milk is also producing every month. every month to increase the milk production of the state The department also aims supplying wholesome hygienic milk supplying wholesome hygienic milk supplying urban populations. urban population through Milk Schemes The C Schemes. The Cuttack Milk Supply Scheme at Phulnak be at Phulnakhara is supplying milk to townships of Cuttack and The milk plant The milk plant was established 1963. The average daily collection the milk during the period has increased the state of the period has increased the state of the period has increased the state of the period has increased the period has been period the period has increased the period has been period to be p 100 litres to 4,000 litres. After implement tion of Inter-Intensive Cattle Development the mill of Intensive Cattle Development Scheme in the milkshed area of the plantik is expected the is expected that the daily collection of miles will further by will further be increased to 6,000 heme new personal to be increased to be the proposed t It is proposed to set up such a scheme Berhampur ORISSA REVIEW—SEPTEMBER, 1917

o look after the health of animals and ontrol the various contagious diseases, department has 353 Veterinary Dispenses and 1,139 Stockman Centres spread throughout the state. But these are sufficient as per the yardstick fixed by Royal Commission on agriculture. As the above yardstick we should have at 660 Veterinary Dispensaries and 1,640 kman Centres.

o meet all the above deficiencies in the nal Husbandry Programme, it has been posed to establish one more mediumed Intensive Cattle Development Block, ore Key Village Blocks and 20 Artificial mination Centres for better breeding gramme during the current year. It has been proposed to set up 2 new lively farms and to increase the live-stock ngth of the existing breeding farms. better control of diseases, it is proposed to 12 more Veterinary Dispensaries

and 9 more Veterinary Stockman Centres and to expand the Biological Products Institute for production of more and effective vaccines.

For production of more egg and chickens a number of poultry schemes are in opera-There are more than six poultry farms and twelve A. I. P. D. Centres which are being managed by the Department for better breeding and production of good quality birds. At present about 23,758 birds of improved strain in the departmental poultry farms. Two schemes for Intensive Egg and Poultry Production-cum-Marketing Centre are in operation at Bhubaneswar and Rourkela to facilitate both production and marketing of egg and poultry in these areas. This department is taking keen interest for production and supply of premixed poultry feed to the interested farmers and different farms with a view to reduce the cost of production of egg and chicken.

N. D. A. SYLLABUS REVISED

The syllabus of the National Defence Academy, Dehra Dun, has been revised so as to enable the cadets to handle the latest equipment and weapons in Armed Forces.

The minimum educational qualification for joining the Academy has been raised to Higher Secondary with the age-limit of 16 to 18 years.

Soil Conservation in Tel basin

The river Tel, an important tributary of the river Mahanadi, takes its origin from the boardering areas of Madhya Pradesh and Koraput in Orissa and joins the river Mahanadi at Sonepur traversing a distance about 170 miles. It has a catchment area of 7,864 sq. miles Of these a total catchment area of 596 sq miles lies in Madhya Pradesh and the rest 7,268 sq. miles lies in the State of Orissa extending over the districts of Koraput, Kalahandi, Bolangir and Phulbani. Suketel. Sonogod, Lanth, Under, Udanti, Sagada, Hathi, Motter, Utei, Raul and Kodago are some of the important tribu taries of the Tel.

The catchment area of the river Tel is mostly mountainous and its undulating topography favours the process of soil erosion. Besides, in the district of Koraput. Kalahandi and Phulbani, the pernicious 'Podu' or shifting cultivation is practised by the Tribal population which further aggravates the situation and facilities accelerated erosion.

The unprotected crop lands in village forests and grass lands are mostly devoid

of vegetal cover and denuded. In areas sheet and gully erosion have their appearance and badly cut the surface rendering them unfit for profitable land utilization. Further, primitive agre nomic practices are also responsible for soil erosion

uncontrolled grazing and annual forest fire have reduced both ced both protected and unprotected forests as the foci. as the foci of soil erosion.

There is a considerable pressure on land the Tel and intensity in the Tel catchment on account intensity of population of population which is above the people average. average. This has resulted in people taking to taking to cultivation even in marginal lands.

The grazing lands at present only serve as resting ground for the livestock are devoid are devoid of grass and as such exposed: exposed to evil hazards of soil erosion.

The protein

The problem of stream bank park has assumed vital importance and from tracts of land have also suffered sliding sand casting due to sloughing and ORISSA REVIEW—SEPTEMBER. 197 P yield.

In order to obviate these hazards a mprehensive Scheme of Soil Conservation and development of Tel basin has en drawn up by the Soil Conservation vision of Kalahandi. The Scheme enviges an expenditure of Rs. 4.5 crores tring 4th and 5th Plan.

The scheme is drawn out in Soil Conervation and land utilisation principles iming at control of soil erosion conseration of moisture and utilization of conerved moisture for successful crop Production on sustained basis. The Soil Conservation measure to be implemented in the scheme will reduce inflow of silt load both in the tributaries and the main river and will reduce the incidence of flood. The pernicious 'Podu' will be successfully controlled and replaced by permanent agriculture. By rehabilitating with suitable species of plants and grasses in the forest and grazing lands the yield potential will be improved. Stream bank erosion will be greatly be reduced and sand casting of the adjoining agricultural lands will be prevented.

The scheme proposed to be operated in the most backward districts of the state will undoubtedly provide employment opportunities to the unemployed and underemployed tribals. This economy of these districts is mainly dependant on agriculture and forests. Large scale cultivation of economic and plantation crops will give rise to a number of agroindustries including fibre and rope making industry. Coffee processing, canning of fruits like Pineapple and Banana, manufacture of paper from Sabai and Bamboo, Soap and Vanaspati industries are also likely to come up.

BIRTHS PREVENTED

More than 5.20 million births were prevented till March 1970 under the family planning programme in our country, according to official estimates

The birth rate has also shown a decline from 41.7 per thousand population to 37.9 per thousand.

LAND REFORM MEASURES

Several legal measures have been taken in Orissa with a view to reforming the laws relating to land tenures and conferring rights on agriculturists. Due to enforcement of O. E. A. Act, 1951, 4,21,021 big and small intermediary interests have been abolished. The O. M. S. (Laws) Act, 1950 was introduced in the ex-State areas for abolition of personal service jagirs and private lands of the rulers. Similarly the Orissa Merged Territories (V. O. A.) Act, 1963 was enacted to abolish the Village Officer system prevalent in the ex-State areas. With the introduction of the above acts, lands were settled with the tenants giving them the occupancy right.

With a view to protect the tenants from the oppression of the landlord, the Orissa Tenants Protection Act, 1948 and the Orissa Tenants Relief Act, 1955, were enforced. At last the Orissa Land Reforms Act, 1960 (except Chapter IV) came into force in the latter part of the year, 1965 with an to confer better rights on the tenants to provide security of tenure, regulation of rent, control of eviction of tenants, and prohibition of future sub-leases, etc. The Chapter IV of the O. L. R. Act dealing with the ceiling and disposal of surplus land has not yet been enforced as the judgement in respect of respect of some cases are still pending with the Supreme Court.

PROGRESS ON LAND REFORMS

Till the end of last April, 219,091 cases of ere institute. were instituted under different sections 195,595 the O. L. R. Act. Out of those, 23,498 cases have been disposed of leaving cases page. cases pending for disposal. Steps being taker being taken to dispose of them quickly.

According to the provisions under section of the O 53 of the O. L. R. Act, the Land Commission was constituted. was constituted under the Chairmanship of Member D of Member, Board of Revenue, Surveys Director of Land Records Orissa, Shri P. N. Mohanty, I. A. red), Shri S. N. Bhanja Deo, M. Bohi Shri B. M. Shri B. Mahapatra, and Shri M. Bolidat. as members various land reforms matters. ORISSA REVIEW—SEPTEMBER, 1974 Commissioner is the Secretary of mission.

YMENT OF COMPENSATION

of Rs. 5,73,94,284 was paid as sation till the end of 31st March Besides interests to the tune of 1,483 was paid.

During the current financial year (up to the end of May, 1970), a sum of Rs. 3,85,536.00 towards compensation and Rs. 1,99,705 towards interest was paid.

The approximate amount of compensation that remains to be paid together with interests comes to about Rs. 2.39 crores.

'RENGTH OF MONUMENT ATTENDANTS TO BE INCREASED

The Government proposes to strengthen the staff of monument endants in a bid to protect the national monuments against pilferage vandalism by tourists.

The staff of monument attendants is proposed to be increased to 3,300 m the present strength of 1,100.

The Government also proposes to produce a documentary on monunts in order to make people behave more responsibly towards national cs. The film will depict the undesirable effects of irresponsible ivities like scribbling names and disfiguring monuments.

A NEW COPPER PLATE GRANT

A new copper plate charter probably of the early part of the 11th Century making a gift of a village has come to light. While examining the antiquity of a temple of Lord 'Siva' in the village of Bargaon at a distance of about 15 K.ms. from Bhannagar Town in the district of Ganjam in Orissa, this author was informed that there was a copper plate in the possession of cultivator in the village, Odhaibargaon situtaed at a distance of about 2 Kms. from the village Bargaon. This old temple itself with beautiful carvings and motifs beautiful images of Hindu deities Buddhist and Jain immages is interesting and its construction may be rightly assigned to the Bhauma period in the history of Orissa, roughly between the 7th Century and the 9th Century A.D. The temple appears to be contemporary to the older group of temples in Bhubaneswar Town such as Parasurameswara, Satrughneswara, etc. which were constructed earlier to the famous Lingaraj Temple. It appears that this temple was constructed at a time when Buddhism gave way to Saivism so that the images of the Buddhists could be depicted on the walls of this Siva Temple of Bar-

gaon. The history of the Bhauma shows that the earliest Rajas of this rolling family were Buddhist as their very indicate such as Parmopasaka, Khemankara, his son Paramatalhash Sivakaradeva alias Unmattakeswari; the latter's son Subhakara Deva bore title Paramasaugata, Parameswara, Maharajadhiraj, parn maheswara indicating that he was devoted to both Devoted to bo to both Buddhist and Hindu religion. subsequent Rajas and Ranis, howe abandon abandoned the Buddhistic title and st Saivas. that were that they dynasty assumed the reign of administration and relation note tion and ruled Orissa then extending the Gango. the Ganges at least up to the distr called Mahendragiri in the At the main entrance temple, there is a small inscription indisting.

As regards the copper plate grant for many many from the possession of ORISSA REVIEW—SEPTEMBER, Bisoi, a farmer of the

ed by Shri Bisoi that some years back ecovered it from a paddy land which ne villagers' common land along with g iron chain. It was learnt from the igers that from this locality many years k they dug out two brass vases containsilver coins and out of their sale-prols they have constructed a new temple illa<mark>ge Bargaon. It was confidentially</mark> nt that these paddy lands contain den treasure in brass vases till now and Ple are afraid of digging them for the Pose of appropriation due to a common Derstitious belief.

The very name Shri Bisoi indicates that forefathers at one time were the admiitalors of a revenue unit called Visaya to a small district of the present day. those days the revenue divisions were meaning the country, Mandala, faning a Division under a Mahamandalescorresponding to the area administered Governor. The smallest unit was Bhukti or Khanda equal to a small ubdivision.

On examination it was found out that completely a new copper plate rant of Mahamandaleswar Nettabhanja-Mahamandaleswar Nettables issued from a place called Khollipata. his copper plate grant consists of 3 plates they have been strung together by a repared brass ring through a beautifully pared round hole in each plate. At place where both ends of the brass have been shouldered, there is a shouldered. olase been shouldered, there eth nice indicating the royal emblem. the plate measures 7.4"×3.5" and the Plate measures 7.4"×3.5.

The plate of the brass ring is 2.5.

blion on and the last one contain inscribiddle inner pages only whereas one contain the 011 REVIEW SEDTEMBER, 1970

the sides. Except the last both other page which contains lines 5 pages contain 9 lines each. The language is Sanskrit. The inscription was deciphered by Shri S. N. Rajguru, the eminent Epigraphist of Orissa. The following is the test:-

Lines 1-4 contain a verse invoking the Kula-devata Narayana of the Bhanja Kings. From lines 4-7 the King Nettabhanja, son of Mangalakalasa and grandson of Mahamandaleswara Nettabhanjadeva's prasasti is recorded: he declared a grant from Khollipati in Khinjalimandala. From lines 8 to 10 the name of Ataigrama in Vasava-Khanda within Khinjelimandala is given as a gift. It is declared to have been granted before the samantas and inhabitants of the village.

In lines 10 to 13 it is stated that the said village was separted from communal lands (Koshtha) for the purpose of donating the same together with lands, forests, bushes, dry lands, ponds, etc. for the increase of merit of the king's father, mother and

First plate—Inner page

- १। ॐ स्वस्ति यस्माचक् गदासि शङ्घधनुषः श्रीवत्सता
- २। पि द्योतन्ते दितिजाधिनाथ बनिता वैधव्यदीक्षारतः
 - [1] सोपी भक्त जनाय।
- ३। मोक्षफलद: श्री भड़ा-वन्सो (ङशो) भवान (न्) पायाद्वः कुलदेवता प्रतिदिनं नारा-
- ४। यणो भूभुन: [1] खोल्लिपाटीतः परम वेष्णव राह्वं क
- सुन्दर निदान। ्रत्यंरबोत्रासिता-रातिचकः
- ५ । समानन्दित-मत्तमयूर महामण्ड—

- ६। लेश्वर-श्री नेष्ट भन्न देवस्य पौत्र राजपुत्र मङ्गल कलशस्य स-
- ७। त महामण्डलेश्वर श्री नेष्ट भंडा देव पादा:कुशिलन: [1] खिन्निलि—
- ८। मण्डलीय वासेवखण्ड प्रतिवद्ध आटड् ग्रामे सामन्त-सामवा--
- ९ यि प्रमुख निवासनः समत्स जनपदान् समाज्ञापयन्ति Second plate—First page
- १०। विदितमस्तु भवतां श्रामोयं कोष्टायकृश्य घट भट प्रवेश स---
- ११। जल स्थल सविटप सगुल्मलता सपद्रारण्य समत्स्य कछपरचतु---
- १२। ७ सीमा परिक्टिन: मातापित्रोरात्मन: पुण्ययशो विवद्धीय ।
- १३। आचन्द्रार्कः समकाल यावत (त्) महादेवी श्री श्र माहायी युवरा-
- १४। ज श्री पृथिवी भङ्ज सन्धिविग्रही श्री भीमामण्डल२७ समवा--
- १५। यि-श्री गामङा-महासामन्त-भोमिल्ल-दञ्ड नायक-गञ्भ (में) धर ।
- १६। बासुळि-देवदास सूपकारिणी-विद्यामती गर्ब्स (मं) रूप सप्तरात दारि-
- १७। का परिवाराभिजन प्रसृतीनां व्यवहरण परिज्ञानयो हरपुर बि-
- १८। निर्मात पिङ्गल गोत्राय पुष्ता (छ) रूपि प्रवराय आय्य (र्घ्य) कुलिने अक्ष्प--

Second plate—Second page

9९। —टिल नरसिंह दत्त पौत्राय ठाक र वाहुद्त पुत्राय अक्षपटिल—श्री दामोद् —

- २०। र दत्त स (श) म्मीणे पुत्र प्रपौत्र प्रसृति । अल्पन्त क्लिष्ठ भक्तिपरा-
- २१। धीनाय उत्तरायण संकान्त्यां परमाखेटन (इ) ताम्ब्र (म्र) शास-
- २२ । नीकृत्य प्रद्त्तोऽस्माभिरत: ताम्ब्र (म्र) संदाईनत को (के) रिप बाधा न करणी-
- २३। या (त्) [ा] ये के (न) चित (त्) कालाधारि भविष्यन्ति लिखितमयर्थादया परिपाल-
- २४। नीयमिति [।] किंच तथाचोक्तं भूमि यः (हणा) ति यश्चभूमि प्र-
- २५ । यच्छति उभौ तौ पुण्यकर्माणौ नियतौ खर्गवानि स्व-
- २६। दत्तां परदत्ताम्वा यो हरेद्वसुन्धरां स कृमिर्भृत्वा पि-
- २ण तृभि: सह पच्यते [i] गामेकां खर्णमेक्य भूंग (द्ध) म---

Third plate-Inner page २८। ज्ञ लं इरन्नरकमाप्नोति यावदाहूति संस्त्रवं []

- २९। ङ्काव: परदत्तेति पार्थिवा: [1] यस्य यदा भूति
- ३०। स्य तदाफल * [1] आ (अ) स्मद्बन्स (हून) न्यवनसे (ने ने) न्यवन्से (ङेशे) बा यः किंशत (त) वृपितिर्भव ३१। बेत् तस्याहं पादलमोस्मि ममदत्तातुपालते [] क्ष

३२। त् ३ माघव दि ७।

The following is briefly the meaning e above Text— ORISSA REVIEW—SEPTEMBER, the above Text-

which father mother and himself, existtion should continue till the sun. the and moon the nes 13 to 17 it is stated that the grant made in the presence of the Mahadevi Bhani. Mahayi, Shri Prthvi raj; Shri Bhimamandala, the Sandhi-Samavayika; hin; Shri Gamada, the Garbhesvara, uali, the Mahasamanta; Dand<mark>anayaka; Devadasa, the Vaguli;</mark> amat<mark>i, the female cook or Supakarini</mark> ding 700 female members.

lines 17 to 20 it is stated that the e Damodardatta Sarman, son of tura Vehudatta and grandson of tsinhadatta, who belonged to Pingalatishadatta, who belonged to Pingalatishadatta, who belonged to Pingalatishadatta, Pancharishprayara of Arya tribe who is designated as Akshapatala and is a great worshipper of the gods is ited the gift.

it was made on the occasion of Uttaraa Sankranti. Then from lines 22 to 31
by some verses prohibiting hinrances
he grant and these verses have been
ted from Dharmasastras. In lines 31
the date is given as Samvat 3,
shaydi 7, that is in the regnal year 3,
in the 7th day of the dark fortnight of
gha.

copper plate grant. In the hilly and est areas of Orissa the Bhanja dynastics several branches had been ruling under amount powers and where as such vers were extinct after reigning for a dury or two, the Bhanjas as their ordinate chieftains have continued till in Mayurbhanj, Keonjhar, Daspalla

ruling an area called Khinjalimandala where deprived of their powers during the last century under the British rule.

Nettabhanja in this copper plate grant cannot be identified with any Nettabhanja of the different lines of the Bhanjas ruling in other places. The Bhanjas used such common and popular names like Sila-Satrubhanja, bhanja, Nettabhanja, etc. The genealogy which has been indicated in this copper plate grant shows that Mangala Kalasa, the father of the grantor of this copper plate grant has been stated as Rajaputra i.e., prince, from which it may be presumed that his own father reigned for long years with the result that he died before succeeding him. The word 'Khollipata' may be the modern name Khalikote a town in Ganjam district. It is for the first time that Khollipata appears in this copper plate although the Bhanjas had issued many copper plates. It is Boudh and other places. The Bhanjas of Kolada in Ganjam district who had been interesting to note that a piece of land with an extensive area with forests, drylands, tanks, etc. was separated from the Kostha land of the village or the Rajas own land preserved for their purpose. This is something new. In this epicgraphical record the village so called appears to have been named as Atoi which can be identified with the present village, Atarai about 7 or 8 miles away from Bhanjanagar. The donee hailed from Harapur, and this Harapur can be indentified with the present village Haripur at a distance of 7 to 8 miles from Bhanjanagar. At the time of issuing the grant along with the Maharani, the crown prince, the ministers and other

he first line and the second line of this stanza

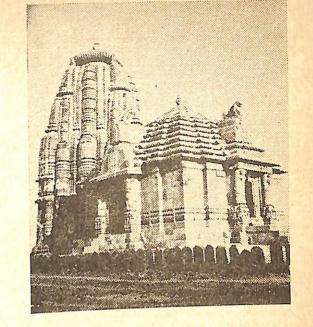
belong to two different stanzas.

high officials, the female cook, Vidyamati along with 700 ladies were present. It is quite significant that ladies of the harem and Vidyamati, perhaps the head female cook were also given an important position in the administration of the State.

According to Shri Rajguru on palaeographical consideration the charter belongs to the 11th Century A.D. It is interesting to note that it is for the first time in the alphabates of Indian language abbreviation of 'A' appears in a copper plate belonging earlier to the 12 Century. This is something new. The copper plate grant ends with the date of issue indicating the regnal year of the King such as Samvat 3, Magha. The grant was issued on the occasion of Uttarayana or Mankarsankranti. From the ephemaris of Shri Swami Kannuapillai it has been found that in the 11th century there were two dates on which Mankar Sankranti occured in the month of Magha on the 7th day of the dark fortnight. The first date was on the 23rd December, 1016, Sunday and the second on the 24th of December 1035, Wednesday. We are not sure, however, in which of the two years the gift was made. In any case, if was made in the year 1016 or in the year 1035 it was made on the 3rd regional year of

the king and so deducting two years, it would be either in 1014 A.D. or 1033 A.D. on which the Raja ascended the throne. It appears that Bhanjas used to follow the Amanta i.e. counting the dates from Amanta basiya to Amabasiya and not the Purnimanta. counting the dates from the full moon day to the full moon day as is followed in South India.

The Bhanjas claim great antiquity of their race. The controversy arose for the dating of the Sectabhinji fresco painting Maharaja Disabhanja Keonjhar of proceeding in a royal procession on elephant with a single line of writing Maharaja Shri Disabhanja. Shri T. Rama Chandran has put it in the cirkar 5th century A. D. while Dr. D. C. Sirkar thinks the thinks that the character of the epigraph belongs to a much later date between the 8th and at 8th and eleventh century A.D. It is significant to ficant to note that after Shri Das recovered the union the unique image of Lord Siva in dancing pose with 13 lines of inscription in Brahmi script of the script of the 4th century A. D. Keon Asanpat an interor tribal village of Keon jhar and be jhar and brought to light the contents of the inscript. the inscription, it has been proved beyond doubt that it doubt that the Bhanjas are an ancient race.



ajarani (Indresvara) Temple of Bhubaneswar

n the sacred 'Ekamra Kanana' or abaneswar, the city of thousands of Siva of different ages each having the ix of 'Isvara', the name of 'Rajarani for famous Saiva shrine seems anomolous. To find out the real original name of Rajarani temple, evidences from the rary works describing the sanctity, glory antiquity of different shrines and tanks to be collected. Basing on these terials, it can now be proclaimed with any fear of contradiction that this nple was known as Indresvara from the ginning.

In t<mark>he 'Ekamra Puranam'</mark> a Sanskrit ^{ork} written in the fourteenth century and regarded as an authority on the temples of 'Ekamra Kshetra' or Bhubaneswar, it is stated that this attractive and beautiful temple of Indresvara ଗୃରୁଦ୍ୱଶନ ମନୋଲ was built by Indra at a short distance to the east of the Siddhesvara temple (Ekamra Puranam—24th chapter). Another treatise in Sanskrit, the 'Svarnadri Mahodaya' belonging to the 15th or 16th century gives a detailed description of all the temples of Svarnadri or Bhubaneswar, dividing it into eight units (Ayatanas). It is stated in this work that the temple of Chakresvara stands to the east of Siddhesvara. Not far this temple is seen the temple of Indresvara (12th Chapter). the next In

chapter, it is mentioned that Indresvara located to the east of Sidhesvara was built by Indra. Even now the small dilapidated temple of Chakresvara with a silted up tank stands in the paddy fields in between Siddhesvara and Indresvara (Rajarani) temples. The information available from this work gives a clear idea about the location of the Indresvara temple which is no other than the present Rajarani temple.

The latest work so far known, describing the sanctity and significance of the temples of Bhubaneswar is the 'Ekamra Chandrika'. Written in Sanskrit, this work was compiled with the materials taken from the Ekamra Purana and Svarnadri Mahodaya some time in the 16th or 17th century. In the seventh chapter of this work, it has been stated that Visvakarma, erected this Indresvara temple for the worship of Indra not very far from the east of the Siddhesvara temple.

The famous Oriya poet Sarala Dasa in the Vanaparva of his monumental work 'Mhabharata' in Oriya (1458—60 A.A.) has spoken about Indresvara as one of the famous eight Siva's (অন্ধ্রনপু) of Ekamra Kanana or Bhubaneswar

ଇନ୍ଦ୍ରେଶ୍ର ଲଙ୍ଗ ବଳେ ଅନଲର କୋଣ <mark>ଏହ୍ ଅଷ୍ଟୁଲ୍ଙ କ</mark>ମ୍ବଦ୍ୱୀ**ପ**କୁ ଧାରଣ

Thus, Rajarani was undoubtedly known as Indresvara from the days of its construction at least till the advent of the British into Orissa.

It is not definitely known as to when <mark>Indresvara began to be known as Rajarani.</mark> But this much is certain that it was called by its present name, when Raja Rajendralal Mitra, an eminent historian of Bengal visit-

ed Bhubaneswar in 1868-69 A.D. collection of materials for writing monumental work Antiquities of Orissa it two volumes. Shri Mitra without making any reference to the literary works cite above tried to explain the word Rajarah by attributing its construction to a Rani o queen of one of the Kesari kings and called it the temple of the Royal Queen On seeing the incomplete carvings on the temple walls he hastily arrived at conclusion—"The cause which prevented the array of the cause which prevented the array of the cause which prevented the ca the completion of the carvings, likewise prevented the construction of the structure.

The grant of the carvings, the prevented the construction of the structure. The conclusion of Shri Mitra that the construction of the Struction of the truction of the Rajarani temple was not completed. completed is disproved by the references cited above and as such it is untenable.

INDRARATHA, THE BUILDER OF THE INDRESVARA TEMPLE

Indraratha as a powerful king of th dynasty (Somavansa) ruling fron Yayatinagara' finds mention in twe pigraphic epigraphic records of the reign of Rajendre Chola (1912) Chola (1012—1044 A. D.) in which it stated Chola conquero captured Indraratha, of the ancient in the samily in of the moon together with his family in fight which great fame fight which took place invasion (Yajatinagara) a city whose Rajendra Chola has been assigned period from period from 1022 to 1024 A.D. Before invasion I... invasion Indraratha had given a tough the might to Bhoja (1010—1042 A.D.) In spite of these informations the content the ephigrant the Paramara King of Malava. the ephigraphic records of the correction of the ephigraphic records of the correll porary kings, scholars could not of fix Indrarathe Somavansi kings of Orissa so far kings ORISSA REVIEW—SEPTEMBER.

d were giving divergent views. But all culations about Indraratha have been at r<mark>est after the discovery of his copper</mark> tte grant from Banapur in the district of wi in the year 1960. From the geneology en in this charter, it is known that uma<mark>ratha t</mark>he son of Yayati I, the under of the paramouncy of Somavansa esari vansa) all over Orissa had four sons, unely. Dharmaratha from his first wife and Samkaraid Indravath. Vakrrath When tha from his wife. second harmaratha died childless. Indraratha, ho was a governor under Dharmaratha ecupied the throne of Orissa and ruled it 'om Yajatinagara after defeating the rival aimants for it. The date of the Banpur rant issued in his sixth victorious regnal ear has been calculated by me as the 25th ctober 1006-Kanya Samkranti from hich it can be concluded that his rule egan from 1001 A.D. Thus, it is now Snyincingly proved that Indraratha ruled Orissa from Yajatinagara from 1001 t.D. to 1024 A.D.

It was Dr. K. C. Panigrahi, an eminent rehaeologist of the State who first of all rote that "the magnificent temple of Raja ani originally bore the name of Indresvara." it possible that it was named after aratha who was its builder". The resumption made by Dr. Panigrahi in was proved to be true in 1967. the Banapur charter was edited and buildished by Dr. K. B. Tripathy.

Indraratha who was the most powerful ruler of the first line of Somavansi kings beginning from Janamejaya and bravely fought with two great heroes of India, namely, the Paramara monarch Bhoja and the Chola sovereign Rajendra Chola, built this magnificent Indresvara temple commemorate his name a few years before the close of his rule over Orissa. The abrupt end of his reign due to the sudden attack by Rajendra Chole prevented him from completing the carvings, which are generally done after the completion of the construction of the temple. The example of the Mohini temple built by Mohini Devi. a queen of the famous Bhauma Kara family of Orissa, on the right bank of the Vindusarovara of Bhubaneswar may be cited here, as an example where the carvings on the body of the temple are left unfinished though the construction and conservation of the temple were completed by this Bhauma queen. Following the examples set by his forefathers like Isana Deva and Nanna Deva and father Bhima. ratha, who built the Isanesvara, Nannesvara and Bhimesvara temples respectively. constructed Indresvara temple in the holy Ekamra Kanana, which had been adorned by many Siva temples long before his reign. The building of Gauri and Mohini temples at Bhubaneswar by Bhauma queens like Gauri Devi and Mohini Devi respectively also inspired him to perpetuate his memory by naming this attractive Saiva Shrine built by him as Indresvara.

The Rourkela Tourist Complex

The beauty-spots of Orissa constitute a perennial source of attraction for tourists. The 'Golden triangle' consisting Bhubaneswar, Puri and Konarka is doubt the most popular of the several tourist complexes of Orissa. But some other complexes deserve immediate attention for speedy development. One such complex on the northern border of Orissa may be taken up as an integrated scheme with the Steel city of Rourkela as the basis of operations. It may be called "The Rourkela complex for tourists" with the Khandadhar Water Fall, the Vedavyasa and Mandira Dam as its constituent units, not excluding the Steel city itself replete with tourist possibilities.

The Rourkela tourist complex presents a striking combination of admirable human achievements and the most animating natural scenery. The steel city itself deserves to be seen for various reasons. It is one of the few well-planned cities of morden India. From a small hamlet less than 150 huts, it has now developed into a populous city of more than lakhs of people. Two hills stand side by

side in between the Steel Plant area the township. As a visitor entres township, he sees before him the two hall looking it looking like ever-green arches on both lovership sides of the sides of the road leading to the towns in course In course of a decade or so, the hills we be encourable. completely as may be well foreseen from the nature. the nature of the construction work in full and in full swing.

KHANDADHAR WATER FALL

The Khandadhar mountain It located to the east of Rourkela. approachable by two routes. Lahunipada Lahunipada that is preferable is via about 60 K.Ms. from Rourkela and K. there Barrell there, Barsua is 24 K. Ms. A few beyond beyond Lahunipada, there is a bifulful of the road. of the road near the village Kalaiposh we are Again, at Barsua, there is another pad road to m we are to go by the left-hand Again. At B tion of the road; the left-hand to the road; the left-hand to the road; to Tensa. But in order to go to the real fall area. fall area, we will have to take to good hand route hand route. The road is ORISSA REVIEW—SEPTEMBER.

thereform and it is only jeepable. A nee of about 20 K.Ms. is to be covered ep to go to the top of the mountain where the waterfall will be beautienjoyed. After about 5 K. Ms. from ua begins a ghat-road. Thus, as we y jeep from Barsua, we will have to a small stream with a current of a small stream with a current of a bout 9 inches depth and about 6 in breadth beyond 18 K. Ms. (from ua).

^{1e} se<mark>cond route</mark> to Khandadhar water-^{may} be indicated thus—

Rourkela, we proceed to Lahunit then to Kalaiposhi, then proceed by right-hand route and reach the Lalai ge; therefrom we turn to the left and eed through the villiges of Kurda, Dogra liha and finally arrive at the foot of mountain and see the waterfall quarters. Thus from Lahunipada, ndadhar K. Ms. is 32 about and Lalai, the road is not good in dition.

we cross the stream and proceed her throgh the forest, we will see a hinutes later the stream transforming into a series of dazzling and glitterseries of dazzing and small getting crushed into small ticles of water amlost every next second. few minutes, we would reach of the mountain overlooking the down below. After getting down the jeep, we shall have to proceed a steps forward and lo! we would to our great surprise down below our large number of waterfalls. gh calculation would convince us would convince us waterfalls from the waterfalls from oight of about 1,500 feet from the ground Further, from the same spot,

will be able to see the river Bramhani flowing magestically in a serpentile manner encircling the town of Banai partially. The roaring noise arising out of the waterfall reverberates in the forest area nearby and the visitor feels for some time that he is transported into a sort of dream-land. The emotional experience of a real lover of natural beauty at that place cannot be expressed in words; the scenery something that is to be seen, enjoyed and appreciated. It infuses into the visitor a sprit discovery of a hidden treasure of nature. Big trees down below appear to be bushes. A student of Indian literature is likely to be remained of Mahakavi Kali-dasa's famous sloka in the 'Sakuntala' which begins with 'Yadaloke' (Act I) while going from Barsua to the top of the mountain.

Even now, the Barsua area is a dense forest, infested with wild beasts for miles together. As we go from Rourkela, we will see dense forests on both the sides of road beyond Lahunipada. During heavy rains, when hill-streams are in spate, it is not unlikly that a visitor would be stranded at some place for some time. As a visitor returns from the waterfall area, he moves physically forwards no doubt towards the Steel city but like Sakuntala's mind running in the reverse directon to see the King again, the visitor's mind also runs backwards to see the glittering waters producing a thundering noise, inculcating an emotional experience no words express. Aptly has it been said in the 'Solitary Reaper' :—

"I listened, motionless and still;
And, as I mounted up the hill,
The music in my heart I bore,
Long after it was heared no more".

The top of the hill, as has already been described. provides no doubt a natural vantage point for the enjoyment of the beauty of the waterfall. But certain developments are necessary to facilitate 'Happy trip' to the place. The road connecting Barsua with the vantage point referred to above may be developed first so that motor-cars may ply freely. A restshed and a canteen are two of the important things that may be provided next. Above all, deforestation to any extent and of any kind should be strictly forbidden on the top of the mountain as it may affect adversely on the volume of water that now flows in the stream at higher altitudes to be subsequently transformed into the famous waterfall of Khandadhar.

THE VEDAVYASA

The Vedavyasa is considered to be a place of great religious sanctity. It is only less than 5 Kms. from Panposh which may be described as the southern extremity of the steel city of Rourkela. Vedavyasa is the name of a small hill adorned with three temples dedicated to Siva and Rama and with some reminiscences of Vedavyasa is known all over the world as the author of the Mahabharata in Sanskrit. It is the place where the Bramhani river has its origin. Two rivers known as Sankha and Koel meet at the foot of this small hill, Vedavyasa and at the point of confluence, the two rivers lose their identity. Therefrom, they are known as Brahmani. As we come from Rourkela along Sambalpur-Cuttackthe Bhubaneswar road, we cross the Brahmani river immediately after Panposh. 3 Kms. beyond Panposh, there is a diversion to the right leading to Vedavyasa. Hence, Vedavyasa is on the right bank of the Brahmani at the point of its origin.

Tradition has it that the great Sage Krishna-Dwaipayana had his hermitage at Vedavyasa. At present, a visitor may very well comprehend, standing on the hill, that hundreds of years ago there was a long mountain range which the two river Sankha and Koel had to cut through net Vedavyasa. As we stand on the top of the Vedayyasa and cast our vision to the other side of the Brahmani, we see the extension of the hill in that direction too. The river Brahmani has eroded vast areas of the hill through centuries past on both its sides hill widen itself. Now the Vedavyasa hill stands stands just on the river on the right hank and extends southwards. As we stand at Vedovice Vedavyasa and look towards the point of confluence, we see the river Sankha on our left and the left and the river Koel on the right.

There are three temples at Vedayyasi two of which are dedicated to Siva and the third. To Be third, to Rama. The temple of Chandrasekhara is sekhara is at the bottom of the hill banks very close to the river on its right banks.
On the bad On the body of the hill and at a height about 60 c. about 60 feet from the ground level stands the temple. temple the temple of Balunkeswara. temple the appear to be very old. It may be that the Kesari King. who were th temples a Bhubaneswar and other places had 50ml thing to do thing to do with the two Siva temples to Vedavyasa but it Vedavyasa but the temple of Ramachands at the top of the at the top of the hill is about a century of the hill is about a mindars are Both the Siva temples and mall—the comparatively small—the one above the bottom of the contract o small. In front of the Rama temple is also a control of the Rama temple is also a con temple dedicated ORISSA REVIEW—SEPTEMBER, uman who is commonly associated Him. In the Rama temple, there are platforms for the deities to be seated. he upper platform the Trio of the ayana has been installed. In the r platform, we find the Orissan Trio Jagannatha, Balabhadra and Subhadra.

WHY 'VEDAVYASA'?

famous author of the Sanskrit labharat as well as of the 18 purans is itionally known as Vedavyasa. It ns th<mark>at his original name was Krishna</mark> he was called Krishna Dwaipayana luse he was born on a Dweepa at the ut of confluence of the Ganga, Yamuna Sara<mark>swati. Now, Dwaipayana is a</mark> bination of two wards, Dweepa and na meaning coming into Vogue (birth) a Dw<mark>ee</mark>pa, i.e., an island. Here at avya<mark>sa we</mark> have not only the confluence ^{he} t<mark>wo rivers, Sankha and Koel, which</mark> cons<mark>idere</mark>d to be Yamuna and Ganga also a third underground current said ^{)e} th<mark>e ho</mark>ly Saraswati. Kalidas<mark>a in his</mark> Mahakavyam has ous Raghuvansa ribed the Saraswati as follows:-

waters of the river Saraswati are never openly on the surface of the earth. an be presumed reasonably that even he days of Kalidasa about fifteen uries ago, the current of the Saraswati not visible to the eyes like that of the ga and the Yamuna. Here at Vedasa, we neve a pond from where a small ent flows towards the point of the luence of the two rivers and this is wn as the 'Saraswati Kunda'. Not far y from the temple of Balunkeswar on heart of the hill is a small cave ch is said to be most sacred place on

the hill due to the fact that there the old sage Vedavyasa sat and wrote the Mahabharata. Certain things said to have been used by Vedavyasa such as a bookstand, an Asabadi, i.e., a stick with an arm-like structure at its top on which the old sage used to take rest while dictating the Mahabharata, etc., have been preserved there. People who go there with devotion, may take things, as they come to them, for granted. But a critical mind may not be satisfied by traditional accounts given by the local guides during a to the place. The resting-stick and the book-stand are so very small in size that they cannot be taken to have been used by a grown-up man, much less by the author of the Mahabharata.

Actually speaking, there is no (island) at the point of confluence, though it is maintained in an atmosphere of devotional fervour that a portion of the present hill of Vedavyasa was sorrounded by the two rivers Sankha and Koel as two arms encircling an object. However, possible that at one also centuries ago there might have been near the point island some where confluence and that might have been birth place of the believed to be the great sage.

In this connection the common reader and the ordinary visitor to Vedavyasa may be told that Krishna Dwaipyana came to be known as Vedavyasa only after he had laid his hands on the classification of the Vedas. But then, we come to know from the Puranas that there were 28 Vedavyasas*. Traditionally it is believed that Vedavyasa was not only the author

^{*&#}x27;Astavinsatirityaite Vedavyasa Puratanah.'

of the Mahabharat but was also composer of the 18 Puranas. The present-day scholars and indologists hold the view that Vedavyasa or simply, Vyasa used as a tittle of honour by many poets and writers mythological of works. Granting that the famous Vedavyasa who is commonly associated with the authorship of the Sanskrit Mahabharata not really born either at Vedavyasa or on an island now extinct in the vicinity of the present hill, still it may be reasonably held that some great Vyasa must have established his hermitage on this hill and might have composed some mythological work which has not been discovered by modern history. In any case, the is really charming. It is not only pleasant to the eyes to stand on the top of the hill and to cast a plastic vison in all directions aesthetically also animating invigorating for anybody to spend some time there. Natural beauty, religion, philosophy, mythology, all these have been intertwined into one consolidated cultural block. That is the reason why Vedavyasa has stood for centuries past as a great attraction for tourits, pilgrims, poets, historians and spectators alike.

Vedavyasa is a Tirtha (a religious worship involving a holy dip in place of the waters there) in as much as a in the holy waters dip at the confluence of the two rivers is considered point to be conducive to spiritual bliss. visitor to Vedavyasa should remember that under no circumstances should he desire to swim in the water of Brahmani very close to the hill as the consequences would be fatal. A number of people have met with accidental death while swimming in the deep waters there. It is gathered

from people of the locality that there is a strong under current in the waters and if we go a little beyond knee-deep-water death would be sudden and accidental inevitable. People, therefore, prefer to bathe in the Swaraswati Kunda. There is a sign-board at the Ghat which gives warning to the visitors for not swimming there.

When a tourist arrives at Vedavyasa, he may, as may be well presumed, require thing. some drink or some such are no shops in the Vedavyasa There is a betel shop no doubt but its Since the place is visited by many people all through induce year, something may be done to induce two the local people to put up one or two shops are shops so that the basic needs of a visitor immediately arrival may be immediately after his provided.

There are particular days in the year hen huge when huge crowds of people gather round Vedayvasa Vedavyasa. Since it is an essential Saiva the Peetha (the Peetha (the centre of Siva worship), devotees largest conglamination of visitors, devotees and pilorism and pilgrims is seen on the Siva-Ratri pay which February-March every year. On some other occasions too, people go there for go there for a change, for picnic purposes and also for sixt

With the development of Rourkela, as a populous city of Vedar populous city, the importance of steadily vyasa as a vyasa as a picnic-spot is also projects increasing. the hill-area the Some development hill-top. It is not unlikely that poisonger snakes, scorpions about at any time, even though we are told that

- Bre Cittle-

ing like that has taken place so far. is n<mark>ow very interesting to find a</mark> gious minded man living in a small at the top of the hill. Visitors the top of pend more time on the which has commanding view in the ction of the confluence of the two rs. A number of cement-benches at erent places on Vedavyasa may be structed to provide facilities to the their visit. tors to take rest during om Rourkela, a bus may ply at regular ervals to Vedavyasa so that people who ve le<mark>isure at their disposal would feel</mark> luced to visit the place conveniently.

Whe<mark>n I v</mark>isited Vedavyasa some time 0, a particular thing was brought to my tice by a co-visitor. I was told that it ^{ts ne}ither desirable nor decent on the ^{rt} o<mark>f the</mark> builder of the Sri Rama temple the top of the hill to instal Sri Rama, xmana and Sita on a higher platform d have Jagannatha, Balabhadra thadra installed in the same temple la lower platform. I was further told. at, by this Jagannatha, Balabhadra and ubhadra have been shown to be inferior Sri Rama, Laxmana and Sita. I was ery much amused at the intelligent query with regard to the status of the two anels of deities. I was reminded of adumani, Orissa's most humourous poet f the 19th century who described the elative importance of two categories of hings in the following manner:

"He who is heavy and great is down below as in the two pans of a balance. And higher up".

Orissa, Lord Jagannatha of Puri is the

Supreme deity who is comparable to the trunk of a big tree and all other deities are like the branches of that tree. Evidently, therefore, the builder of the Sri Rama temple at Vedavyasa must have drawn inspiration from the poets of Orissa in placing Jagannatha at a lower level than Ramachandra within a very small temple in asmuch as the trunk of a tree occupies a lower place than its branches. It is seen sometimes that humour enables us to present historical truths more colourfully and convincingly than scholarly discussions.

THE MANDIRA DAM

The Mandira Dam is located at a distance of 36 K. Ms. from Rourkela. It is a new dam constructed on the river Sankha which has its confluence with the river Koel near Vedavyasa. The dam area presents a beautiful spectacle. The length of the dam is 1,400 feet and its depth is 65 feet. Its height from the sea level is 708 feet. Two beautiful Guest Houses have been built there for the guests and visitors. The reservation authority is the Manager, Hindustan Water-Supply Plant, Steel Limited, P. O. Rourkela. A circular road connects the Guest Houses located at a considerable height with the main entrance where an officer issues permits for visitors to enter into the dam area. As a visitor stands on the terrace of the Guest House or moves about in the lovely garden near the Guest House, he sees all round a continuous chain of hills at a distance of 15-30 K. Ms. The Rajgangpur Cement Factory is clearly visible on the lefthand horizon, as we stand facing the lake dotted, at present, with numerous trunks of broken trees. The whole environment is highly refreshing. It is an excellent place for

holiday-goers. Taxis ply from Rourkela almost daily to the Dam area. It is an attractive place during hot summer noons and the rainy season can be best enjoyed from the Guest House. Boating facilities in the lake may also be arranged earlier through the Dam authorities. Compared to the Hirakud Dam at Sambalpur, the Mandira Dam is very small no doubt, but to get a complete and comprehensive idea about a modern dam within a very short time, the Mandira Dam constitutes a great attraction for visitors. The Mandira Dam as such may not attract visitors from distant places, but the Rourkela tourist complex including the Khandadhara Water Fall and the Vedavyasa hill (not excluding the progressive Steel City of Rourkela pulsating with life, light and lusture of industrial development) may attach great importance to the Mandira Dam in as much as it is a type of attraction by itself.

ROURKELA

As has already been stated, within the course of two decades, Rourkela has developed into a populous city from a tiny hamlet. It is one of the best planned cities in India. The Steel Plant and the general plan of the city may not constitute by themselves very great attractions those who have seen many of the big cities of India, including the beautifully planned New-Delhi. But wonderful tourist possibilities await to be harnessed to make the whole area really worth-visiting. It is very interesting to note that there are two hills in between the Steel Plant and the old Rourkela area on the one hand and the new township on the other with wellplanned roads and buildings. These two hills may be taken up for developmental work in the interests of tourism. The

distance between the two hills is very very small. It is almost equal to the breadth of the road with some space on both its sides. Plantations of Eucalyptus, Sal and Teak will not only add to the beauty of the hills considerably but also will be highly profitable in the long run even commerce cially. Circular roads may be designed on the body of the hills in order to facilitate vehicular communication to their top. In other words, in the case of each one of the hills, a road either from the present main road connecting the city with the Steel Plant or from any other spot may be constructed tructed in such a way that a visitor can go by his car to the top of the hill and in the process of his journey to the top of the hill he will be he will have to go round the hill several times. times. It would also necessarily mean to offering of greater scope to the visitor to cast his visitor cast his vision all around as he ascends the hill to down hill to develop in him a mixed feeling of wonder wonder, enjoyment and adventure. Specially during the rainy season, he will experience the ence the most in expressable playful having bear amidst the playful clouds.

The roads leading to the top of the hills ay be well live sides as may be well lighted on both the sides of has been done has been done in some mountain cities of the World Steps may have to be taken for the supply of water at the top. may be hotel with hotel with a number of suites may be constructed of suites may have to A gube hotel with a number of suites may be suited by the suites may be suited by the suite of suites and suites and suite of suites and s constructed at the top of the hill.

Hotel Hill To Hotel Hill Top" or "The Hotel may be the name of the proposed hold.
When this is with slightly higher charges for boarding and visitors. there will be a heavy rush of have Within 100 miles of Rourkela, we have number of :-number of industrial areas. It is expected that the prothat the proposed hotel at the hill top will ORISSA REVIEW—SEPTEMBER, 1970 ct industrialists, businessmen, officers the like all through the year.

irther, we may have not only a road ing to the top from the ground level, rcling the hill but also some other ways ommunication. First, we may have a t of steps leading to the top for the estrians. Secondly, we may have the e system, i.e., we can make people get a specially made circular cabin and a distance of about half a K. M. from hill, lift them by an electrical contrice to the top of the hill, not perpendirly but diagonally. Thirdly, we may e a v<mark>ery ste</mark>ep railway line on the body he hill which will carry about a dred people at a time from the foot of hill to its top. The experience of such ilway trip is now possible in India only few places like Darjeeling. Specially holidays and almost every day all ough the year, this railway carriage will act huge crowds. All these four devices e gained immense popularity in some es in other countries and daily erowds Deople go to the hill-top not only to have experience of the ascent of the hill, but have new experience from several nts of view.

llong with the development of the two as indicated above, one thing more y be done. At present, the distance ween the two hills is very small. It may the difficult to connect the two hills with

a sort of overbridge about 100 feet high above the road level. When this is done, a tourist who goes round one of the two hills may not come down to the ground level to go to the other hill but will drive through the overbridge and go to the other hill. The over bridge, when constructed, may remind us of the Hanging Garden of the ancient world if it is made sufficiently wide to facilitate the growth of creepers and flowerplants.

What is lacking very much now at Rourkela for the ordinary visitor is the availability of accommodational facilities. The question of putting up of a good hotel with number of decent suites at a central place in Rourkela is considered to be an urgent necessity for the expansion of tourism in Western Orissa. The concerned authorities are perhaps aware of this desideratum and we may have a good hotel for tourists in the years to come.

Rourkela is speedily expanding in all directions. In addition to its magnitude, there should be magnificance to make the place more attractive. The possibility of a games sanctuary in a miniature scale may not perhaps be considered either unnecessary or undesirable, either on one of the hills or in some nearby place after about a decade or so and that will be another addition to the tourists' repertory at Rourkela.

CALENDAR OF EVENTS—ORISSA JULY, 1970

		3 5 2 1 1 3 1 0
16-7-1970	•••	An official delegation led by Chief Minister, Shri R. N. Singh Deo called on the Prime Minister at Delhi to press the claim for location of the 2nd Steel Plant in the State but the Prime Minister rejected the demand.
		Mohan Guru Irrigation Project near Nayagarh was inaugurated by the State's Deputy Agriculture Minister, Shri B. Tripathy.
21-7-1970		Shri Tirthabasi Pradhan, a former Deputy Minister of Orissa passed away.
24-7-1970	•••	A conference of Tribal and Rural Welfare Department Officers held at Bhubaneswar.
25-7-1970		The Orissa Planning Board approved an outlay of Rs. 222.60 crores for the Fourth Five-Year Plan of Orissa. The annual plan for the year 1970-71 also given green signal.
26-7-1970	•••	Death anniversary of late Pt. Godavarish Misra was observed.
27-7-1970	•••	Peaceful 'Orissa Bund' observed throughout Orissa in support of the claim for the location of the 2nd Steel Plant in Public Sector in the State.
30-7-1970	•••	Chief Minister, Shri R. N. Singh Deo inaugurated a twe-day conference of Collectors at Bhubaneswar.
		AUGUST—1970
3-8-1970	•••	Chief Minister Shri D
4-8-1970		L. Sohani Training Camp at Bhubaneswar. Chief Minister, Shri R. N. Singh Deo inaugurated a two-day seminar on "long term credit" at Bhubaneswar, organised by the Orissa State Co-operative Bank.
6-8-1970	•••	The State Committee of the Jana Congress adopted a resolu- tion expressing itself in favour of a fresh election in Orissa.

- 7-8-1970 ... Normal working of the train services paralysed in Khurda Road Division of S. E. Railway on account of strike by the employees.
- 8-8-1970 ... Chief Minister, Shri R. N. Singh Deo opened the Regional Office of the State Bank of India at Bhubaneswar.
- 10-8-1970 ... Shri Sangram Keshari Ray, the first Oriya to become a Brigadier dies in a tractor accident.
- 12-8-1970 ... The House Surgeons of the three Medical Colleges in the State went on a 24-hour token strike demanding fulfilment of a 15-point charter of demand.
- 15-8-1970 ... 24th Independence Day celebrated throughout Orissa.

 The Muralijoro Bridge on the Bhawanipatna-ThuamulRampur Road in Kalahandi district and the Chipuli and
 Sandul bridges connecting Bhawanipatna with Narla
 Panchayat Samiti were opened by Shri D. Nayak, Minister
 for Works and Transport.
- 19-8-1970 ... The Chief Minister, Shri R. N. Singh Deo inaugurated the Rajgangpur College at Rajgangpur.
- 21-8-1970 ... A night Post Office opened at Berhampur in Ganjam
 - Mr. Govinda Munda, State's Deputy Minister for Health inaugurated a 6-bedded Hospital at Bisoi in Mayurbhanj
- district.

 Orissa State Council of the Swatantra Party rejects

 Jana Congress plea for a fresh poll in Orissa.

 Jana Congress plea for a fresh poll in Orissa.
 - Sambalpur district has been adjudged to be the best in the inter-district swimming competition.
- the inter-district swimming competition.

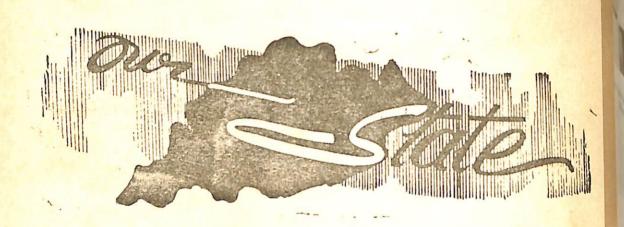
 The Yugoslavac Ambassador Dr. Slavko Komar accompanied by Mrs. Komar visited Orissa.
- by Mrs. Komar visited Orissa.

 by Mrs. Komar visited Orissa.

 Workers of Orissa State Electricity Board went on a 24
- hour strike.

 A twelve-member official team from Orissa left Bhubane-swar for Expo-70.
 - Mottua, Taluk headquarters town of Malkangiri Subdivision remained cut off due to flood in Sileru and Saberi
- rivers.

 Shri B. C. Das sworn in as Judge of the Orissa High Court.



N. C. C. AIR SQUADRON BHUBANESWAR AWARDED SHIELD AT THE INDEPENDENCE DAY PARADE

The Air Squadron No. I of the N. C. C. based at Bhubaneswar has been adjudged as the best Squadron and awarded a certificate of merit in the 'Vayu Sainik Camp' for all India Senior Division Air Wing Cadets held at Madras during May 1970.

The Orissa Squadron is commanded by the Squadron Leader S. Ramachandran. This is for the first time that the Cadets from Orissa have earned distinction in an All India Camp. The Orissa contigent consisted of the following Cadets of the

B. J. B. College, Bhubaneswar camparticipated in this annual training Shri Bijoy Bisoi, Shri Saroj Jena Shri Bhabani Mishra, Shri Aruna Shri Prabira Das, Shri Aswini and Shri Ajoy Mohanty.

In recognition of the honour N. C. the by these cadets to Orissa, the Air Squadron has been awarded Stal Education Minister's Shield at held Level Independence Day parade Level Independence Day parade August 15, 1970, at New Capital.



Tribes Advisory Council met at Bhubaneswar on August 6, 1970. The Chief Minister Shri R. N. Singh Deo, presided over the meeting

The Chief Minister of Orissa, Shri R. N. Singh Deo, is addressing the Collectors' Confeence in the merning on July 30, 1970 in the Secretariat Conference room, Bhubanesw





ri Harihar Patel, Minister for Industries and Public Relations is seen addressing Press Conference in his office room in the State Secretariat. Bhubaneswar on

The fourth meeting of the State Apprenticeship Council was held at Bhubanesus on August 3, 1970

Bornt for Industries St. 117

Minister for Industries Shri Harihar Patel, Manister for Agriculture Shri R. B. Mishra Deputy Minister for C. D. & P. R. Shri A. N. Singh Deo, attended the



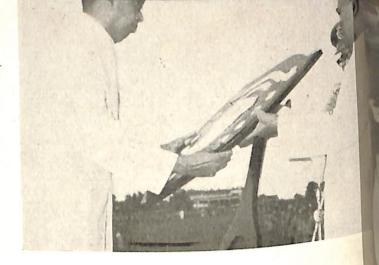


ohri H. Mohapatra, Minister Law, Orissa inspecting the Ceremonial parade on the occasion of Independence Day, 1970 at Bolangir

Chief Secretary Shri G. C. L. Joneja giving away prizes at the annual function of the Secretariat Recreation club at Bhubaneswar on August 14, 1970



Shri Patnaik presenting Vigilance Shield.





Education Minister, Shri Banamali Patnaik, presenting the Police Medal

NEWS IN PICTURES

Independence Day Celebration at the State capital

Education Minister giving away Republic Day Parade Shield at the Independence Day function.

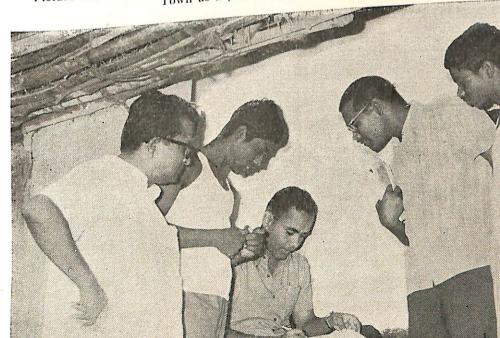




officers and fishermen about development fishing in Chilka Lake.

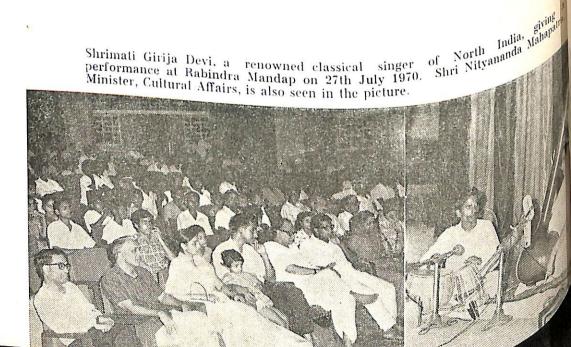
A seminar on training of the District Census Officers, which was held on August 19 & 20, 1970.

Picture Shows: The District Census Officers taking house-hold Census in P
Town as a part of the practical training





scene from the drama 'Ashoka Stambha' by Shri Bhanjakishore Patnaik, staged the Orissa Troupe at the National Drama Festival held at Bangalore on July 21, 1970.



BAN ON SHOOTING OF TIGERS

to us as a Life has come ss beritage and it is our duty to posterity to it it is passed on ed and hence their conservation in untry is of paramount importance. unately it is noticed that their r is gradually decreasing; especially eedy decline in the tiger population country has been causing us grave for Wild n. The Indian Board

Life as well as the Standing Committee on Wild Life in Orissa have recommended for imposing complete ban on shooting of tigers in the State.

It has therefore been decided Government that the shooting of tigers (except man-eaters and regular lifters) should be stopped throughout Orissa with effect from August 1, 1970 for a period of 5 years.

RESTRICTION IN HOMOEOPATHY PRACTICE

^{ernm}ent of Orissa have decided to of ² restrictions in the practice by eopathic system of medicine ster<mark>ed or unlisted practitioners</mark> in ate.

ording to a notification issued under ¹ 50 of the "Orissa Homoeopathic

Act, 1956" no person other than a registered or listed Homoeopathic Practitioner shall practise or hold himself out whether directly or by implication as practising or being prepared to practise the Homoeopathic system of medicine after expiry of period of one year from the date of notification in Orissa Gazette.

INCENTIVE AWARDS TO MAHILA SAMITIS

ernment of India in the Ministry of Agriculture, Community Developand Co-operation (Department of unity Development) have decided ourage the economic activities of Samitis functioning in the State th grant of incentive awards to them the year 1970-71. According to leme, all the Mahila Samitis in are eligible to participate in tition. No entrance fee is charged

for the purpose. The period of competition is one year from 1st April 1969 to 31st March 1970. The selection committees constituted at Block, District and State levels shall conduct selection of the best Mahila Samitis entitled to receive the cash awards according to their gradation indicated below.

Such of the Mahila Samitis who have taken active part in pisciculture, kitchen

gardening, tailoring, knitting, organising feeding and mid-day meal programmes, family planning, Balwadi, radio rural forum and various cultural activities and are willing to participate in the above competition are required to fill up the pro forma prescribed by the Government of India which can be had from the Block office and to submit the same to their Development Officers. respective Block The Block Level Committee and District Level Committees will select the names of the Mahila Samitis in order of merit in A. B, C, grades and will send their recommendation to the State Level Committee. The State Level Committee after close scrutiny of the performance of the Mahila Samitis will make final selection of the Samitis entitled to receive the following award during the current financial year:—

19 awards of 'A' grade Rs. 1,000 eac Rs 600 eac Rs 600 eac Rs 133 awards of 'C' grade Rs. 400 eac

Central grant amounting to Rs. 95 00 is available during the current financity year for this purpose. All the register Mahila Samitis of the State can partice pate in the competition for receiving the awards.

The Manula Samitis interested to tak part in the competition may contact the respective Block Development Officers write to the Community Development Panchayati Raj (C. D.) Department direct for further details.

TREATMENT OF FEMALE & CHILDREN AT CITY HOSPITAL CUTTACK

The City Hospital, Cuttack, which is directly in charge of the Chief District Medical Officer and is functioning as the District Headquarters Hospital had no provision till 1st June 1970 to treat the female cases, maternity cases and the children patients as a result of which these cases were deprived of indoor medical aid in this hospital. Consequently these patients were seeking indoor medical aid in the S. C. B.

Medical College Hospital, Cuttack. Cater to the needs of the local people well as of the neighbourhood of Government have decided that out of beds of this hospital. 60 will continue to treated the male beds and 30 to be maternity and the rest 10 as children made. This arrangement has been effect from the 1st June 1970.

A STORY OF SUCCESS

ıri Chintamani Meher of Kermeli ge has turned out to be the real INTAMANI' in vegetable cultivation. recently, Bolangir, the headquarters n of the district was depending for al' on the supply from outside the rict. Shri B. R. Nanda, while working Block Development Officer at Bolangir seriously thinking why at all Bolangir uld not get the benefit of having fresh tal' in the market. He haunted out for esponsible cultivator and Shri Chintani M<mark>eher of Kermeli, a good cultivator</mark> any standard provided him with wer. The Agriculture Extension lcer, Shri Govardhan Meher also extenhis helping hand in this pioneering effort was ort. cumulative Their

crowned with success. This year, Chintamani has taken up Potal cultivation in an area of 0.80 acre. His total expenditure on compost, fortilisers and pesticides comes to Rs. 181.00 only. By the middle of July, 1970, he had earned Rs. 4,220.00 by sale of Potal.

The price of Potal ranged from Rs 2 to Re. 1 per Kilogram. In course of four and half months commencing from March 1970, Shri Meher sold to the market 3,250 Kgs. of Potal and earned Rs. 4,220.00. The story of his success has been an eye-opener to other cultivators in the district and they are now eager to takeup this lucrative trade.

FAMILY PLANNING PROGRAMME BENEFITS 8,298 PERSONS

The Orissa State Family Planning treat through its Centres and Sub-Centres rformed as many as 3,169 sterilization erations and 2,230 loop insertions during the, 1970. Besides, the Bureau also districted 181,557 condoms, 5,304 foam tablets 117 tubes of jelly to 2,899 persons the month. In all 8,298 individuals benefited by the programme.

popularise the programme, the organised 65 film shows, 13 cul-

tural shows, 41 exhibitions, 2,555 group discussions, 1,530 meetings and 7,648 educational group meetings. Family Planning workers during the month contacted 20,916 individuals.

15 Medical Officers and 15 Field Workers (Female) were imparted special training in the programme at the Regional Family Planning Training Centres at Cuttack and Sambalpur respectively during the month.

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Rajballav Mishra, Minister for Agriculture is seen inspecting the Independence Day parade at Uditnagar, Rourkela

Shri A. N. Singh Deo, Deputy Minister for Industries inspecting the Guard of Honour at the Independence Day parade held at Chhatrapur, Headquarters of Ganjam district on August 15, 1970



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Moments of ecastacy following rich harvest