

DEPARTMENT OF AGRICULTURE **ANNUAL PLAN – 2009 - 2010**

INTRODUCTION

About 70% of population of state, the major occupation is agriculture, and 72% of farmers are small and marginal farmers. Only 1.1% operational holdings are above 10 hectares covering about 9% of area. Agriculture operations are primarily, of subsistence type due to the dependence on rain water, lack of adequate irrigation facility and agricultural extension activity, lack of institutional credit flow, predominance of cereal crops (92%), majority (40%) area is under mono crop rice. The major crops of the state are paddy and maize. Pulses, oilseeds, wheat & millets are grown in some pockets. Vegetable production is high in certain pockets of the State but state lack the post harvest technology because of acute shortage of cold storage, processing units etc. Presently surplus vegetable from Jharkhand one being sent to neighbouring state. The state is poor in seed production of almost all crops like cereals, pulses, oilseed & vegetable. The state mainly depends for seed from outside agencies/resources. In major area of Jharkhand, the soil is acidic in nature. The state is very suitable for agriculture development through watershed approach. The state has good potential for oilseed, pulses, vegetable & other horticultural crops. The state has poor farm mechanisation and has been suffering for effective extension system particularly, due to lack of adequate manpower. The state requires to make its database effective, adequate and updated.

Total cultivable land is 38.00 lakh ha.(47.67%), 8.87lakh ha. (16.50%) is current fallow, 6.74 lakh ha (8.46%) is other fallow. The net sown area is 22.38 lakh ha (28.08%). The area of 19.32 lakh ha (24.33%) is under agricultural wasteland. This is to be reclaimed and has to be covered under cultivation.

Crop Coverage Area under different crops are

Crop	Coverage
Rice	16.92 lakh ha
Wheat	1.10 lakh ha
Maize	2.80 lakh ha
Pulses	3.60 lakh ha
Fruit	0.42 lakh ha.
Vegetables	2.25 lakh ha.

Cropping Intensity is 117%, per capita net sown area (0.083hectare) is quite low in relation to the per capita land holding (0.14 ha approx.) in the State.

All these factors converge into a vicious circle of low agricultural productivity, low farm income, low investment, low capital formation & subsequently stagnant rural economy. Contribution of Agriculture to GSDP is 11%.

Achievements

- ♦ HYV Seed Distributed to Farmers

Year	Quantity (Q)
2002-03	9585
2003-04	8552
2004-05	21127
2005-06	22366
2006-07	38258
2007-08	64336
2008-09	60341
2009-10	125528
Total	350093

- ♦ 23 seed villages have been developed; those have produced about 55000 Q seed of high yielding varieties of paddy in 2008-09.
- ♦ Emphasis have been given to develop modern farms , one each in every district
- ♦ 55 block nurseries and 1 progeny orchard have been rejuvenated.
- ♦ “Soil Profile Cards” are being provided to the farmers on the basis of soil sample collected from their fields.
- ♦ A State level Soil Conservation Training Centre at Nagri and Soil Conservation Training Centre, Demotand, Hazaribagh have been developed and strengthened.
- ♦ The establishment of KVKs in 21 districts of the state have been facilitated for the purpose of transfer of new technology to the farmers at village level.
- ♦ Productivity of paddy increased 2023 kg/ha in 2008-09 from 1581 kg/ha of 2006-07.
- ♦ Food grain production increased 41.47 lakhs MT in 2008-09 from 32.72 lakh MT of 2001-02.
- ♦ S.R.R of paddy increased from 14% to 25%.
- ♦ Agricultural Technology Management Agencies (ATMA) have been Strengthened in 24 districts to make the farmers aware of agriculture technology.
- ♦ Coverage area under pulses and oilseeds has increased from 2.70 lakh ha. in 2001-2002 to 4.11 lakh ha. in 2008-09.

- ♦ 1000 ha. has been brought under cultivation by adopting soil conservation resources.
- ♦ Coverage area of vegetables and spices has increased from 1.88 lakh ha. to 2.25 ha. in 2008-09.
- ♦ Coverage area of fruit crops has increased from 42988 ha. in 2004-05 to 83274 ha in 2008-09.
- ♦ A Biotechnology Centre has been established at Birsa Agricultural University. Funds have also been provided to BIT, Mesra for the development of Biotechnology Centre.

During the Tenth Plan period (2002-07), and two years of eleventh plan there has been marked increase in crop coverage, crop productivity and crop intensity. The launch of NHM has caused impact on precision farming and commercial venture in Horticulture. Consequently, there have been 19% increase in the coverage area of vegetables and spices and 28% in fruit crops.

Our target is to increase 14% coverage area of vegetables and spices and 122% coverage of fruit crops during 11th Plan Period.

2. EARMARKED SCHEME

Rashtriya Krishi Vikas Yojana (RKVY)

This is an additional central assistance scheme launched in 2007-08. This was decided that RKVY will be a state plan scheme. The eligibility for assistance under the scheme would depend upon the amount provided in the State Plan Budget for the agriculture and allied sector, over and above the base line percentage expenditure incurred by the State Govt. on agriculture and allied sectors. This is a very comprehensive scheme to support the agriculture and allied sectors on the basis of initiatives taken by the State Govt. 75% of the allocated amount schemes will be sanctioned by SLSC headed by Chief Secretary where Govt. of India nominee is also mandatory. 25% of the funds are available under the Stream-II where the processes are relatively more conventional. This is approved once the State planning department passes the schemes to the planning commission and obtains the approval.

Schemes are in two categories: -

RKVY Stream-I and RKVY Stream-II

Under Stream-I following schemes are continuing schemes

- (a) Development of micro-irrigation facility
- (b) Soil health improvement
- (c) Farm mechanization
- (d) Horticulture development
- (e) Seed Production
- (f) Protected cultivation/floriculture

- (g) Integrated nutritional and pest management
- (h) Floriculture Development
- (i) Estb. of livestock
- (j) fisheries Research Institute

Under Stream-II following schemes are continuing schemes

- (a) Integrated Farm Development
- (b) Integrated Seed Development

Under Stream-II following schemes are New schemes

- (a) Standardization, Accreditation and Certification of Labs and Organic Produce

3. STATE SHARE TO CSS

3.1 Macro management Mode (90:10)

In macro management mode the following schemes to be taken for the development of Agriculture activities, ICDP (Rice), ICDP (Wheat) Pulse, oil seed, maize development, balance use of fertilizer, Agriculture Mechanization, NWDPR, RVP and FPR.

3.2 Support to State Extension Programme for Extension Reforms (90:10)

3.3 National Horticulture Mission (85:15)

National Horticulture Mission for promotion of Horticulture activities with forward and backward linkage

3.4 Pilot Weather Based Crop Insurance (50:50)

To compensate the loss of produce due to weather variation or natural weather.

3.5 Micro Irrigation System (40:10)

To promote micro irrigation system in state to facilitate the irrigation potential.

3.6 National Food Security Mission (100:0)

The works sanctioned will be executed in the NFSM 5 district in 100% central assistance. The outlay is not provided under State Plan.

3.7 Soil Health and Fertility Management (100:0)

3 new soil testing laboratories at the cost of Rs 60.00 lakh each under 50% subsidy costing Rs 90.00 lakh, One Quality control laboratory under 100% Assistance, 3 Mobile Soil Testing Laboratories at the cost 40 lakh with 30 lakh central assistance at the total cost Rs 120.00 lakh are to be established. The outlay is not provided under State Plan.

3.8 Development of Infrastructure for Seed production (100:0)

The outlay is not provided under State Plan.

3.9 Strengthening Weights & Measure Infrastructure of States and UTs (100:0)

This is the scheme of Department of Consumer Affairs, Ministry of Agriculture, Govt. of India, New Delhi to strengthen the legal Meteorology of State Government. In 2010-11 Rs 293.70 lakh has been proposed for the assistance to Jharkhand State Government where Rs. 125.00 lakh will be provided to the State Government as grant-in-aid for four civil constructions of Working Standard Laboratories and one of secondary standard laboratory. For rest amount of money various equipments will be supplied through DGS&D. This is 100% central sponsored scheme. The outlay is not provided under State Plan.

4. STATE PLAN SCHEMES

Continuing Schemes

4.1 Exchange & Distribution of Crop seed on Subsidy

Seed is the basic input required for enhancing the productivity and production of the agricultural crops. Providing high yielding variety (HYV) seeds to the farmers either by exchanging their varieties on at least 65% subsidy.

This scheme has become very popular among the farmers and is adding to the seed replacement rate and as well to the food grain production.

During the FY. 2010-11, an additional package of phosphatic and sulphur containing fertilizer will be provided, training for SRI technique through various field demonstration will also be imparted. Under the programme number of demonstrations will also be done in the farmers field for all types of supplied seeds.

Emphasis will be given to propagate new variety of various crops suitable for the Jharkhand state. This will be applicable to Kharif, Rabi and summer season crops.

4.2 Seed production on seed multiplication farm

Production of quality seeds for kharif /rabi/ garma crops of different varieties to be taken in 2010-11 in State Seed Multiplication farms.

4.3 Training, Demonstrations and Extension

The scheme of Agromet advisory services has been introduced in 2009-10 by the advice of GOI, and the scheme has been found very supportive for the development of Agriculture Sector in the state.

This scheme has also integrated component of farm fairs, workshop, exhibition, incentive to progressive farmers, grants to ATMA & SAMETI and training support to Extension Training Center, Hehal, Ranchi.

4.4 Sugar Cane Development

Jharkhand state has sugar cane crop in various sporadic pockets. This crop is to be supported particularly, for its propagation and extension. This programme has been continuing scheme to boost up the sugar cane production and gradually, increasing in sugar cane area in the state.

4.5 Mukhyamantri Kissan Khushali Yojna

This is a continuing scheme since 2008-09 and under this scheme an integrated farming system is being developed every year continuously, in the two clusters of each district of the state.

4.6 Incentive for Innovative technologies for Horticulture Development

Suitable farmers, institution etc will be supported/encouraged for adoption of new technologies to boost up horticulture development in the state. This will be helpful in the extension of such technologies.

4.7 Tuber Crop Development Programme

Farmers of the state will be encouraged for cultivation of tuber crops viz. potato, sweet potato & oil in order to boost tuber crop production.

4.8 Soil Conservation, Research and Training Programme

Soil and water Conservation is very relevant dimension for the farmers in the state. Continuous research, development and training programmes are undertaken for the said purpose in State level watershed Training Centre, Nagari Ranchi, Soil Conservation, Research and Training centre, Domotanr, Hazaribagh and Women watershed Training centre Hazaribagh. To strengthen these activities, the scheme has been taken up.

4.9 Development of Waste Land and Rice Fallow Land

Jharkhand state has about 16 lakhs ha as fallow land, and to bring these land under cultivation is a challenging job and very much required in the State. Accordingly, this programme has been conceptualized to implement in phases and this will add to the agriculture production and betterment of socio economic condition of farmers.

4.10 Agriculture Research and education

Birsa Agriculture University is the only State Agriculture University in Jharkhand. The agriculture growth in right prospective is not possible without need based agriculture research and well trained manpower. The ASU is supposed to impart the quality education, research and extension in agriculture and allied activities. The ASU has been also entrusted to develop breeder and foundation seed and other support services to agriculture and allied sector in the State. There is enhancement in the Salary of University Staff due to 6th Pay commission and 20% of their salary is borne by the State Govt. Accordingly, scheme under Major head 2415 has been taken up for agriculture research and education. Components are:

- (a) Grants in Aid to Birsa Agriculture University
- (b) Estb. of Agriculture College in Palamau (Garhwa) and Godda under BAU
- (c) Grants in Aid for estb. of Dairy Technology College to Birsa Agriculture University

4.11 Other Agriculture Programme

Under the Major budget head 2435 Scheme for seed certification agency, quality control, establishment of Agriculture Development council have been taken up, and these are continuous schemes. Seed certification agency will be strengthened more. Components are:

- (a) Strengthening/Establishment of State Agriculture Laboratory (Quality and seed certification agency)
- (b) Establishment of Quality Control Laboratory
- (c) Establishment of Agriculture Development Council

4.12 Other General Economic services

Strengthening and standardization of weights and measure.

4.13 Establishment of Agriculture Technology Park at Dumka

Work of Agriculture Technology Park being established at Dumka will be completed.

New Scheme

Other General Economic services

4.14 Integrated oilseed development programme

The State has good potential for oilseed. However, about two lakh ha under oilseed are covered in the State. There is ample scope to extend the area of oilseed with advanced suitable technologies and suitable varieties (groundnut/ Nizer/ Soyabean/ Sunflower / Mustard etc) in the State. Accordingly, field demonstration for oilseed in the farmers field will be conducted the subsidy for seed will be of 65%. Rest activities will be on pattern of NFSM etc.

4.15 Millet Development Programme

The State has immense potential for millet development. Although, 32400 ha area covered under different millets viz. ragi, jowar, bajra. There is scope for cover the area in the drought situation by taking millets crops in place of upland paddy and save the farmers for increasing huge loss due to scanty / deficient rainfall.

4.16 Strengthening of infrastructure and other support facilities of Agriculture Department for effective implementation and monitoring of agriculture schemes

The Department of Agriculture has the primary responsibility to facilitate, support and monitor the agriculture development scheme, to boost up agriculture production, and in turn the betterment of socio-economic condition of farmers in the state. The department of agriculture is very weak regarding various infrastructure and communication facilities, which affects very adversely to the field schemes particularly, for effective implementation and monitoring. Hence, this scheme has been conceptualized for strengthening the agriculture department for various infrastructure and communication facilities etc.

4.17 Projects under RIDF

Mutually agreed with NABARD, 7 schemes under project mode have been taken up under RIDF.

Other Agriculture Programme

4.18 Agriculture Consultancy and Evaluation Service Scheme

This is pertinent to note that agriculture based data in the State is very obsolete and urgently requires its updating. To improve the situation a new scheme has been taken up primarily, collection and compilation of agriculture based data of the State having various suitable ways and method. For this, works are to be taken from in house/outside agency including consultancy and evaluation services.

Capital Formation in Agriculture

4.19 Technology Park in Dhanbad District

A new technology park will be established in Dhanbad district to facilitate technology dissemination.

5. TRIBAL SUB PLAN

A sum of **Rs. 15868.00** lakhs has been earmarked for Tribal Sub Plan out of total proposed outlay of **Rs. 26000.00** lakhs during Annual Plan 2010-11.

6. SPECIAL COMPONENT SUB PLAN

A sum of **Rs. 2262.00** lakhs has been earmarked for Special Component Sub Plan out of total proposed outlay of **Rs. 26000.00** lakhs during Annual Plan 2010-11.

7. FLOW TO DISTRICT PLAN

A sum of **Rs. 16000.00** lakhs has been earmarked for District Plan out of total proposed outlay of **Rs. 26000.00** lakhs during Annual Plan 2010-11.

8. OUTLAY PROPOSED FOR VARIOUS SCHEMES (Agriculture)

Sl. No.	Name of Scheme	Annual Plan 2010-11 (Rs. In Lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
A.	Earmarked (RKVY)				
1	Continuing Scheme				
	Stream-I				
	(a) Development of irrigation facility				
	(b) Soil health improvement				
	(c) Farm mechanization	6000.00	3200.00	1200.00	1600.00
	(d) Horticulture development				
	(e) Seed production.				
	(f) Protected Cultivation				
	(g) Integrated nutritional and pest management				
	(h) Floriculture development				
	(i) Estb. Of live stock				
	(j) Fishery Research Institute				
2	Stream-II				
	(a) Integrated Farm Development	1300.00	700.00	0.00	600.00
	(b) Integrated Seed Development	200.00	110.00	0.00	90.00
3	Stream-II New Schemes				
	(a) Standardization, Accreditation and Certification of Labs and Organic Produce	50.00	50.00	0.00	0.00
B.	State Share to CSS				
1	Macro Management Mode (90 : 10)	150.00	80.00	0.00	70.00
2	Extension Reforms (90:10)	230.00	125.00	0.00	105.00
3	National Horticulture Mission (85 : 15)	900.00	486.00	0.00	414.00

4	Pilot Weather Based Crop Insurance (50:50)	200.00	110.00	0.00	90.00
5	Micro Irrigation System (40:10)	200.00	110.00	0.00	90.00
C.	State Plan Schemes				
	Continuing Scheme				
1	Exchange & Distribution of Crop Seed on Subsidy	3000.00	1620.00	600.00	780.00
2	Seed production on SMF	120.00	70.00	0.00	50.00
3	Training, Demonstration and Extension	500.00	295.00	0.00	205.00
4	Sugar cane development	50.00	25.00	0.00	25.00
5	Mukhaya Mantri Kissan Khushali Yojna	2100.00	1100.00	400.00	600.00
6	Incentive for innovative technologies for Horticulture Development	100.00	54.00	0.00	46.00
7	Tuber Crop development Programme	60.00	35.00	0.00	25.00
8	Soil Conservation Research & Training Programme	475.00	250.00	0.00	225.00
9	Development of Waste Land and Rice Fallow Land	2940.00	1514.00	42.00	1384.00
10	Agriculture Research & Education				
	(a) Grants in Aid to Birsa Agriculture University	3500.00	3500.00	0.00	0.00
	(b) Estb. of Agriculture College in Palamau (Garhwa) and Godda under BAU	600.00	600.00	0.00	0.00
	(c) Grants in Aid for estb. of Dairy Technology College to BAU	100.00	100.00	0.00	0.00
11	Other Agriculture Programme				
	(a) Strengthening/Establishment of State Agriculture Laboratory (Quality and seed certification agency)	50.00	50.00	0.00	0.00
	(b) Establishment of Quality Control Laboratory	25.00	10.00	0.00	15.00
	(c) Establishment of Agriculture Development Council	10.00	10.00	0.00	0.00
12	Other General Economic Services				
	(a) Standardization of Weight's & Measures	10.00	10.00	0.00	0.00
13	Capital Formation in Agriculture				
	(a) Establishment of Agriculture Technology Park at Dumka	120.00	120.00	0.00	0.00
	New Schemes				

	Other General Economic Services				
14	Integrated oilseeds development programme	160.00	85.00	0.00	75.00
15	Millet development programme	100.00	54.00	20.00	26.00
16	Strengthening of infrastructure and other support facilities of Agriculture Department for effective implementation and monitoring of agriculture schemes	1000.00	540.00	0.00	460.00
17	Projects under RIDF	1500.00	800.00	0.00	700.00
	Other Agriculture Programme				
18	Agriculture Consultancy and Evaluation Service Scheme	100.00	55.00	0.00	45.00
	Capital Formation in Agriculture				
19	Technology Park in Dhanbad Distt.	150.00	0.00	0.00	150.00
	Grand Total	26000.00	15868.00	2262.00	7870.00

SUMMARY (Agriculture)

Sl. No.	Type of Scheme	Annual Plan 2010-11 (Rs. In Lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
A.	Earmarked	7550.00	4060.00	1200.00	2290.00
B.	State Share (CSS/CS)	1680.00	911.00	0.00	769.00
C.	State Plan Schemes				
	i. Continuing Schemes	13760.00	9363.00	1042.00	3355.00
	ii. New Schemes	3010.00	1534.00	20.00	1456.00
D.	EAP (if any)	-	-	-	-
E.	Other	-	-	-	-
	Grand Total	26000.00	15868.00	2262.00	7870.00