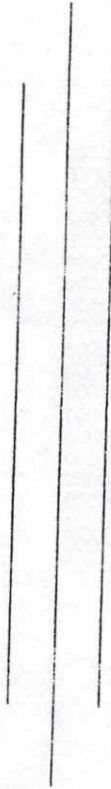




**ANNUAL ADMINISTRATION REPORT
2020-2021**



**GOVERNMENT OF MANIPUR
DEPARTMENT OF AGRICULTURE**

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CHAPTER- I

ANNUAL ADMINISTRATION REPORT **2020-2021**

The Department of Agriculture, Manipur was established in the year 1946 with headquarter at Imphal (Babupara). At the time of its inception, the staff strength was quite small, rather it was a skeleton staff. Gradually, the Department developed in stature and at present it is one of the major Departments in the State.

ORGANISATION

The erstwhile Department of Agriculture was bifurcated into two departments viz (I) Department of Agriculture and (ii) Department of Horticulture & Soil Conservation in the year, 1970. Again a new department viz Command Area Development Authority (CADA) was established 1982-83 under the fold of Agriculture Department. At the beginning of the Ninth Plan Period (1997) the joint cadre of the Department of Agriculture, Horticulture & Soil Conservation and CADA had been trifurcated into three important Cadres - Agriculture, Horticulture & Soil Conservation & CADA.

STAFF STRENGTH

The Department at present is manned by the following employees.

Category of Post	Sanction Post	Man in position
A. Class I	80	49
B. Class II	175	30
C. Class III	585	327
D. Class IV	182	139
Total	1022	539

CHAPTER-I I

Budget 2020-2021

During the year 2020-2021, 21 Schemes have been implemented with budgetary provision of Rs.~26286.32 lakhs, which includes Rs. 24566.65 lakhs under Crop Husbandry, Rs. 69.98 lakhs under Storage and Ware housing, Rs. 447.64 lakhs under Research and Education, Rs. 7.20 lakhs under Other Agri Programs, Rs.67.94 lakhs under Census Survey & Statistics, Rs. 126.91 lakhs under other General Economic Survey, Rs. 00.00 lakhs under crop husbandry (Agro Market), and Rs. 1000 lakhs on NEC Capital outlay for Market Shed..

Schemes implemented during 2020-2021

A. Sector wise number of Schemes implemented during 2020 - 21

Sl.No.	Sector	State Scheme	C.S.S	C.S.	Total
1.	Crop Husbandry	6	8		14
2.	Food Storage & Warehousing	1			1
3.	Agri. Research and Education	2	1		3
4.	Other Agric Programme (Agri. Marketing)	1			1
5.	Census Survey Statistics			1	1
6.	Capital outlay North Eastern Area (Construction of Agro. Market Shed)		1		1
	Total	10	10	1	21

B. CENTRAL SECTOR SCHEMES (100% CSS):

Sl.No.	Name of Scheme
1.	Census Survey and Statistics
2.	Mission Organic Value Chain Development in NE Region (MOVCD-NER)

C. CENTRALLY SPONSORED SCHEMES (Funding Pattern 90:10):

1. National Food Security Mission (NFSM).
2. National Mission on Oilseed and Oil Palm (NMOOP).
3. National Mission on Agricultural Extension (ATMA).
4. Sub Mission on Agricultural Mechanization (SMAM).
5. Pradhan Mantri Krishi Sinchayee Yojana (PMKSY).
6. Soil Health Card & Soil Health Management (SHC & SHM).
7. Rashtriya Krishi Vikas Yojana (RKVY)
8. All India Coordinated Rice Improvement Project (AICRIP) (75:25).
9. NEC Scheme (Agro. Market)
10. Rainfed Area Development (RAD).
11. Pradhan Mantri Fasal Bima Yojana (PMFBY)

D. STATE FUNDED SCHEME :

1. Procurement and Distribution of Fertilizer.
2. Rice Research Station, Wangbal.
3. Stipend and Book grant
4. Agri. Marketing.
5. Storage and Warehouse.

The Sector-wise Financial Achievements under CSS, and CS schemes are shown in the following tables.

FINANCIAL STATEMENT FOR THE YEAR, 2020-2021

A. Sector wise Financial Statement

(Rs. in lakhs)

Sl.No	Sector	Revised Budget 2020-2021 (Rs)	Expected Expenditure during 2020 - 2021 (Rs)
1.	2401-Crop Husbandry	28147.16	28147.16
2.	2408 – Food Storage & Ware Housing	67.82	67.82
3.	2415- Agricultural Research & Education	447.64	447.64
4.	2435-Other Agri. Programme	2.88	2.88
5.	3454-Census Survey & Statistics	67.94	67.94
6.	3475-Other General Economic Survey	126.91	126.91
7.	4401-Crop Husbandry		
8.	4552-Capital Outlay NEA	1000.00	1000.00
	Total	29860.35	29860.35

CENTRALLY SPONSORED SCHEME 2020 – 2021**Rs. in Lakh**

Sl. No.	Scheme	Revised Estimate 2020 - 21			Expenditure as on Date		
		Centre	State	Total	Centre	State	Total
1	RKVY	4000.000	250.000	4250.000	1702.000	86.320	1788.320
2	NFSM	1500.000	100.000	1600.000	490.170	81.690	571.860
3	RAD	150.000	16.670	166.670	75.000	8.330	83.330
4	SHC & SHM	513.190	57.020	570.210	75.500	8.388	83.888
5	NMOOP	348.600	38.740	387.340	156.990	6.400	163.390
6	PMKSY	5500.000	888.890	6388.890	5250.000	277.780	5527.780
7	ATMA	2200.000	150.000	2350.000	349.010	45.970	394.980
8	SMAM	4000.000	517.560	4517.560	2558.850	183.670	2742.520
9	NEC	1000.000		1000.000	276.930		276.930
10	PKVY	7.580	0.850	8.430			
11.	PMFBY		96.61	96.61			
	Total	19219.37	2116.34	21335.71	10934.45	698.548	11632.998

CHAPTER III

REVIEW OF CROP PRODUCTION DURING KHARIF 2020 & CROP PROSPECTS DURING RABI 2020 - 2021.

The State of Manipur is a rain-fed area with little cultivable command area under minor irrigation projects. The production and productivity of the State is solely dependent on the timely onset of monsoon and pattern of rainfall distribution.

PHYSICAL TARGET AND ACHIEVEMENT FOR THE YEAR 2020 - 2021:

During Kharif Season 2020, an area of 195000 Ha., were brought under Main Paddy Cultivation with an estimated production of 523450 MT of clean rice. The total area brought under Paddy was 224850 ha with a target production of 631770 MT. The estimated production of rice for the year 2020 – 21 is about 2809 kg/ha against the National Average of 2404 kg/ha.

The area under pulses during Kharif 2020 was 5000 ha with an estimated production of 5790 MT. The productivity of Kharif pulses is estimated at 1160 kg/ha. The targeted area and production of Rabi pulses is estimated at 27180 ha and 25530 MT respectively.

An area of 19940 ha was brought under cultivation during Kharif 2020 with an estimated production of 48000 MT. The productivity of Kharif Maize is estimated at 2410 kg/ha. The targeted area and production of Rabi Maize is estimated as 8050 ha and 18700 MT respectively.

During Kharif 2020, an area of 8500 ha was brought under cultivation with an estimated production of 7740 MT. The targeted area and production of Rabi Oilseed is estimated at 30100 ha and 25350 MT respectively

Plant Health Clinic (PHC): Cases of 823 insect pest and diseases faced by the Farmers of the different crops from different location were identified and recommended remedial measures during 2020-21.

Fall Army Worm (FAW): During May, 2020 there was an outbreak of Fall Armyworm which is known to have caused huge devastation in countries like United State and Africa. The infestation in the state was reported to be in about 5108 hectares of Maize crop covering all Districts. Though a meticulous action plan of Fall Army Worm was controlled 100% in the State within 45 days.

Best Practices Adopted: During Kharif 2020, the Department could achieved in increasing the area under SRI / ICM 537.50% under the guidance of the Hon'ble Chief Minister. Further, in order to promote double cropping, the State Government allocate fund to increase the area of Maize cultivation to 815 Ha, Soyabean 1043 Ha, and Pea 1169 Ha, during Kharif 2020. In order to increase Rice production a Sub Committee for Enhancement on Rice Production was constituted and recommendation of the Sub Committee has been submitted to the Government which is expected to enhance both production and productivity.

Double cropping (Paddy): From the ensuing pre Kharif 2021, the Department has set a target of 8240 ha in the four valley districts, Imphal East, Imphal West, Thoubal & Bishnupur districts. The area and intending farmers have been identified and geo-tagging is completed. A dedicated Geo-tag app called Agri-tag has been developed and it is in the Portal of the Department. With improvement in irrigation facilities the Department is targeting to bring more areas under double cropping in the coming years.

Since quality planting material and seed replacement is one of the strategies recommended by Sub-Committee (consisting of members from Central Agriculture University, Indian Council of Agriculture Research, Manipur University & all line Departments) for enhancement of rice production, arrangement is being made to provide quality planting materials (paddy seeds) to the identified farmers for double cropping. The Department procured quality planting material and provided to the identified farmers at 50% of market/ICAR/CAU/KVK rate, so that larger areas can be covered for seed replacement and quality planting materials in the subsequent years in order to increase production.

Integrated Nutrient Management (INM) & Integrated Pests Management (IPM): The Department is promoting Integrated Nutrient Management (INM) envisaging soil test based judicious and balanced use of fertilizers, bio-pesticides and organic manure. Under this programmed Farmers Field Schools (FFS), Farmers' Mela, Demonstration etc. were also organized.

Graduate & Post Graduate Education Programme: The Department sponsored the following 54 (fifty four) candidates for undergoing training in different courses under Central Agriculture University, Iroishemba, Imphal.

B.Sc.(Agriculture)	- 27 nos.
B.Tech.(Agri. Engineering)	- 8 nos.
B.Sc. (Home Science)	- 6 nos.
B.Tech (in process & Food Engg.)	- 12 nos.
Food & Nutrition	- 1 no.

Gram Sevak Training Centre : 40 (forty) nos. of both in service candidates of Agriculture & Allied Departments and private candidates sponsored by NGOs are undergoing training for two years Integrated Training Course on Agriculture at GSTC Lamphelpat during the year 2020-21.

CENTRALLY SPONSORED SCHEMES:

Organic Cultivation: The Department is also promoting Organic Chak - hao/ Black Rice and it has also bag Geographical Index (GI) tag during the year 2020. During the current year production of organic Chakhao is estimated at 1400 MT and the same is being sold in both inside and outside the State. Yield for organic HYV is during Kharif, 2020 is estimated at 9800MT.

Farmer Producer Company: Under the Central sector scheme Mission organic value chain for North Eastern States there are 6 (six) FPO/FPCs actively working for promotion of Organic cultivation. The Department has expanded organic cultivation now apart from Black rice (Chak-hao), it is promoting Organic HYV paddy and maize. In order to promote/ protect soil fertility soyabean is also included for intercropping.

Pradhan Mantri Kisan Samman Nidhi Yojana (PM-KISAN): Under the **PM-Kisan** Scheme 5,82,701 nos of farmers had been registered till date in respect of Manipur State. With the completion of 2 years on the implementation of the Scheme in the State, the process for re-verification of beneficiaries is going on.

Farm Mechanisation: Further, the Department has taken up Farm Mechanisation under the Centrally Sponsored Scheme viz, Sub Mission on Agricultural Mechanisation (SMAM). During the current year alone the Department, subsidies were provided for 146 nos. of Tractors, 66 nos. of Reaper, 111 nos. of Power Tiller, 55 nos. of Rotavator, 46 nos. of Thresher, 146 Mini Rice Mill and 127 Farm Machinery Bank, 37 nos. of Leveller, 28 nos. of Digger, 40 nos. of Weeder, 127 nos. of Water Pump, 7 nos. of Rice Transplanter and 65 nos. of Sprayer under SMAM.

Micro Irrigation: In order to provide supplementary irrigation Department has provided subsidy assistance for Micro Irrigation set to 4723 Farmers and created 1264 Nos of water harvesting structures to supplement irrigation of (4723+1421) 6144 Ha under the centrally sponsored scheme Pradhan *Mantri Krishi Sinchayee Yojana (PMKSY)*

Soil Health Card: Under the Soil Health Card, so far the Department has been tested 59,917 nos. of soil samples and distributed 1,25,494 nos. of Soil Health Card under grid method to the farmers. Besides, Soil testing and distribution of Soil Health Card, the 33 nos. of Model Village Farmers Mela under Soil Health Card were also organised at the block level in the State.

Rashtriya Krishi Vikas Yojana (RKVY): During the year 2020-21, The Department has taken up works for strengthening infrastructure, 1 (one) farmer training hall is being constructed at Churachandpur district, Plant Health Clinic at Directorate of Agriculture, 3 nos. of fertilizer Godown at Churachandpur, Imphal East and Thoubal district in order to provide easy access to fertilizer to the farmers.

Popularization of Coarse Cereals & Millet: A new rabi maize of a short duration HQPM variety intercropped with potato was introduced and Hybrid/HYV Jowar, Bajra, Ragi etc were popularized in the State. 19.218 Mt of Certified Seeds of Cereal Crops and Pulses for Kharif and Rabi 2020-21 were distributed under NFSM.

Oilpalm trial: The Assessment Committee appointed by the Ministry of Agriculture, Farmers Welfare, Government of India have identified 66,652 ha of potential area for Oil Palm cultivation in 6 (six) districts of Manipur i.e Thoubal, Bishnupur, Imphal West, Chandel, Churachandpur and Ukhul districts. The State Government has constituted a Sub-Committee on Oil Palm headed by Principal Secretary (Health), Government of Manipur with members from Central Agriculture University, Imphal, Indian Council of Agriculture Research, North Eastern Region, Imphal and technical staff from the Department of Agriculture. The Department has constituted Oil Palm Mission headed by Project Director. The project was launched by the Hon'ble Chief Minister, Manipur on 12.11.2020.

Since Oil Palm is new to the soil of Manipur, Adaptive Trials are being conducted at 22 different locations with the State's own resources. Further, Ministry has accorded sanction for 200 hectares and sprouted seeds have been procured from ICAR-IIOPR, Andhra Pradesh and nursery is being raised at KVK, Thoubal. The result of the Adaptive Trials and nursery raising is quite encouraging. Since the Assessment Committee has left out potential districts like Jiribam, Tengnoupal etc, the Ministry has also been requested to conduct re-survey for the State.

Roadmap: The Department is intending to call Expression of Interest (EoI) from the 14 Oil Palm Companies listed in the portal of ICAR-IIOPR within February, 2021. Selection of Company/Companies & signing of MOU to be completed within March, 2021. Thereafter, the company will start raising nurseries by June-July, 2021 and planting material will be ready after 13 months. The department is targeting to take up large scale plantation/cultivation of Oil Palm in the State from 2021-22.

Sensitisation programmes about Oil Palm cultivation for the farmers of the 6 identified districts are being taken up by the Department.

PLANT PROTECTION:

Statement showing demand vis-à-vis consumption of Chemical Pesticides during the year 2020-21.

- Total Demand of PP Chemical – 28.25 (Mt. in Technical Grade)
- Total Consumption of PP Chemical – 26.90 (Mt. in Technical Grade)

Statement showing the demand vis-à-vis consumption of Bio-Pesticides during the year 2020-21.

- Total Demand of Bio Pesticides – 1.20 Mt.
- Total Consumption of Bio Pesticides – 1.10 Mt.

Statement showing the numbers of Sales Points of Pesticides during the year 2020-21.

- Private traders – 152 nos.

Area under use of Chemical Pesticides and Bio Pesticides during 2020-21 (area in '000 Ha)

- Total area under cultivation - 368.24
- Area under use of Chemical Pesticides - 294.65
- Area under use of Bio pesticides - 28.67
- Area NOT under use of Pesticides - 46.18

Numbers of Insecticides Inspector in the State during the year 2020-21.

- No. of Insecticides Inspectors Notified - 10 nos.

Pesticides Poisoning Report (Half Yearly Return) Period during the year 2020-21.

- NIL

Seeds:

During the year 2020-21 the following quantities of Seeds of different crops were made available to the farmers free of cost.

Sl.No.	Crop	Total (Mt)
✓ 1	Rice (HYV)	118.5
2	Maize	34.9
3	Pea	91.413
4	Gram	17.4
5	Mustard	11.35
6	Urd/Blackgram	11.626
7	Moong	8.15
8	Pigeon Pea/Arhar	14.15
9	Lentil	11.767
10	Soyabean	79.25
11	Jowar	11.434
12	Bajra	0.70
13	Ragi	0.526
14	Millet	2.05

Fertilizer:

Timely availability of chemical fertilizers (both controlled and decontrolled) with adequate quantities have been taken care of through Dealers of fertilizers viz. Retails Dealers and Wholesale Dealers, during the month of April 2020 to March 2021 the following quantities of chemical fertilizers were made available to the farmers in the state.

Consumption Statement of Urea, DAP, MOP, SSP from April 2020 to March 2021

(unit in MT)

Sl. No.	District	Kharif				Rabi			
		Urea	DAP	MOP	SSP	Urea	DAP	MOP	SSP
1	Imphal East	3400	1500	1550	1400	1180	700	950	820
2	Imphal West	4000	1400	2000	1300	1300	650	1140	950
3	Thoubal	4100	2900	3000	1400	2700	1040	1450	1450
4	Bishnupur	4000	2300	2000	1400	1900	850	1000	900
5	Ukhrul	1150	1000	500	1000	80			
6	Tamenglong	1000	1000	500	1000	60			
7	Senapati	1420	1500	1000	800	200	40	100	20
8	Chandel	1150	1020	800	700	80			
9	Churachandpur	1800	1057	1000	1180	150	20	100	10
	Total	22020	13677	12350	10180	7650	3300	4740	4150

CHAPTER-IV

AGRICULTURAL PRODUCTION SUPPORT SERVICES

Seed Production Programme:

1. Seed Certification:

- a. Seed certification is a legally sanctioned quality assurance system whereby high quality, genetically pure, free from pests and diseases seeds of notified varieties are produced and multiplied in quantities to ensure timely availability of Certified Seeds (CS), to the farmers at the affordable price for getting maximum Crop Production.
- b. For implementation of various State and Centrally Sponsored Schemes, Department has been procuring different kinds of Certified Seeds of Pulses, Oilseeds and Cereals every year from outside sources thereby leading to outflow of huge amount of money from State's exchequer. Now, with the commencement of the Seed Certification Cell of the Department, certification of seeds produced by the local farmers have already started and not only benefiting the state's farmers but also could curtail the outflow of State's exchequer outside the state.
- c. During the year the Seed Certification Cell of the Department certified different seed of Rice, Pulses, Oilseeds produced by the State's farmers including the farmers promoted by ICAR for NEH Region Manipur Centre, Manipur.

2. Agriculture Extension:

- a. Agri. Information Unit: The Department of Agriculture has a well-organized publicity wing (Information Unit) to provide extension supports to extension workers and farmers with the latest development in agriculture technology through different audio-visual aids, extension literatures journals, Film/video shows and organization of Exhibition and other programmes.
- b. ATMA: The centrally sponsored scheme "Support to State Extension Programme for Extension Reforms" is ongoing scheme being implemented since 2005-2006. The scheme however, has been modified and strengthened in 2010-11 with a strong manpower and activity support and is currently operational in all the 9 (nine) districts of the State covering 60 ATMA blocks.

Status of Deployment of Manpower under ATMA Scheme

A. Deputation:

Sl. No.	Name of Posts	Sanctioned Post	Post filled up	Vacancy
1	Director SAMETI	1	0	1
2	Deputy Director	4	0	4
3	Project Director	9	0	9
4	Deputy Project Director	18	0	18
	Total	32	0	32

B. Contractual:

Sl. No.	Name of Posts	Sanctioned Post	Post filled up	Vacancy
1	State Co-ordinator	1	1	0
2	Gender Co-ordinator	1	0	1
3	Computer Programmer	10	7	3
4	Accountant cum Clerk	10	7	3
5	Block Technology Manger (BTM),	60	57	3
6	Assistant Technology Manager (ATM)	180	161	19
	Total	262	233	29
	Grand total (A+B)	294	233	61

c. Mass Media Support Agri. Extension:

The Department provides information on last Agriculture Technologies to the farming communities through All India Radio and Doordarshan Kendra Imphal. It is the first major effort of its kind wherein the Government of India is providing financial resources to All India Radio and DDK- Imphal under the scheme "Mass media support to Agricultural Extension".

d. Exposure Visit: Under ATMA, farmers have visited Agriculturally Developed Districts as a part of exposure visit so as to convince themselves and improved their talents in adopting the advanced technologies.

Soil Testing Laboratory: The State Soil Testing Laboratory, Porompat have done Soil Testing Analysis of soil samples submitted from the Farmers' field. During the year 7660 nos. of Soil sample was collected and 7660 nos. of Soil Health Cards were issued to the Farmers.

Agriculture Marketing: An information Network throughout the State is being established with the help of Electronic Connectivity to AGMARKNET Portal for 5 (five) main markets of the State. Daily market price and arrival for selected 27 commodities are reported daily on the AGMARKNET potral. The daily updated market prices of Agricultural Commodities help the awareness of the farmers of the State.

Agriculture Research: The Rice Research Station, Wangbal, the only one of its kind for the State have evolved and released more than 14 (fourteen) varieties till date. The Department constitutes a "Research Advisory Committee" with the following objectives.

- To conduct Research & Development for increasing Agriculture Production, enhancing food quality and modification of Agro-technology to suit the particular condition.
- To conduct R & D for developing hybrid varieties of different crops having more diseases resistance, cold tolerance. Drought tolerance and suitability to high altitude areas.

- To find out various possibilities for diversifying the utilization of Agricultural Crop and its allied products for value addition of this crop.
- To find out suitable indigenous and endangered crop varieties for Technology up gradation.
- To carry out and execute various ventures in Rural areas for the improvement of the rural masses and to extend suggestion and provide ways and means for Economic Development of the State.