

NATIONAL FOOD SECURITY MISSION

NATIONAL LEVEL MONITORING (NLMT) REPORT



**KHARIF -2018
MADHYA PRADESH**



सत्यमेव जयते

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE & FARMERS WELFARE

(DEPARTMENT OF AGRICULTURE, COOPERATION & FARMERS WELFARE)

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ABBREVIATIONS

1. AICRP-All India Coordinated Research Project
2. APEDA-Agricultural and Processed food products Export Development Authority
3. APMC-Agriculture Produce Market Committee
4. CDDs- Crop Development Directorates
5. CSBD-Cropping System Based Demonstration
6. CSS- Central Sponsored Schemes
7. DES- Directorate of Economics and Statistics
8. DFSMEC-District Food Security Mission Executive Committee
9. DSR-Direct Seeded Rice
10. FLD-Front Line Demonstration
11. GPS-Global Positioning System
12. HYV-High Yielding Varieties
13. ICAR-Indian Council of Agricultural Research
14. IPM-Integrated Pest Management
15. KVK- KrishiVigyan Kendra
16. MIDH-Mission for Integrated Development of Horticulture
17. MIS- Micro Irrigation System
18. MSP- Minimum Support Price
19. NAFED-National Agricultural Cooperative Marketing Federation of India Ltd.
20. NCIP-National Crop Insurance Programme
21. NDC-National Development Council
22. NGO- Non Governmental Organization
23. NFSM-National Food Security Mission
24. NFSMEC-National Food Security Mission Executive Committee
25. NLMT-National Level Monitoring Team
26. NMAET - National Mission on Agricultural Extension & Technology
27. NMOOP –National Mission on Oilseeds &Oilpalm
28. NMSA- National Mission for Sustainable Agriculture
29. NRM- Natural Resource Management
30. PMKSY-Pradhan Mantri Krishi Sichai Yojna
31. PROM-Phosphate Rich Organic Manure
32. RCT-Resource Conservation Technology
33. SAUs-State Agriculture University
34. SDA- State Department of Agriculture
35. SFSMEC-State Food Security Mission Executive Committee
36. SRI- System of Rice Intensification

PREFACE

The Government of India, Department of Agriculture, Co-operation and Farmers Welfare, Ministry of Agriculture & Farmers Welfare is implementing various agricultural/development schemes/programmes like NFSM, NMOOP, BGREI, NMSA, RKVY, PKVY, PMKSY, NMAET (SMAM, SMSP & Extension Reforms/ATMA), NHM, PMFBY, SHC, e-NAM etc. During 2017-18 the major interventions are through NFSM, NMOOP and RKVY. To effectively monitor implementation at the field level, the Ministry has constituted a National Level Monitoring Team (NLMT) under the National Food Security Mission (*NFSM-Rice, Wheat, Pulses, Coarse Cereals and Commercial Crops*). The NLMT comprises of the Director, Crops Development Directorates (Directorate of Pulses Development) 02 Principal/Sr. Scientists/Subject Matter Specialist ICAR/SAUs, and the State Mission Director (NFSM) as Nodal Officer.

The Terms of Reference of Central Team suggests mandatory monitoring once in each crop season; to conduct in-depth inspection of the executed activities in consonance to Mission's mandate and approved action plan, Local Initiatives; quantitative and qualitative achievements and impact of the Transfer of Technology (ToT) delivery mechanism in totality taking all CSS/CS/State plan schemes in a district into consideration and providing observations and suggestions/recommendations for further necessary corrections (ATR) at the level of State Govt./State Stake-holders for better implementation of the Mission and desired mandated outcome.

The Team visited the State from October, 08th-13th2018. It visited 04 districts in 02 sample division of the M.P. Interacted with peoples representative MP/MLAs/ Janpad Panchayat Adhyaksh, progressing farmers, KVKs. The Team interacted with the farmers individually in the field and also by organizing/participating in *Kisan Gosthies*. *The report has tried to capture the impact of NFSM implementation, during XIIth five year plan over to XIth plan programme implementation.*

I am thankful to the Principal Secretary, Agriculture and Director, (Agri.), Govt. of Madhya Pradesh for facilitating the monitoring/visit and the respective Vice Chancellors of RVSKVV, Gwalior & JNKVV, Jabalpur for nominating experts/SMSs to represent the Team. I acknowledge the contribution of my technical officers, Dr. A.K. Shivhare, Assistant Director and Ms. Shweta Kumari, Senior Technical Assistant, Bhopal in bringing out the report publication.

Bhopal (M.P.)
19th November, 2018


(A.K.Tiwari)
Director

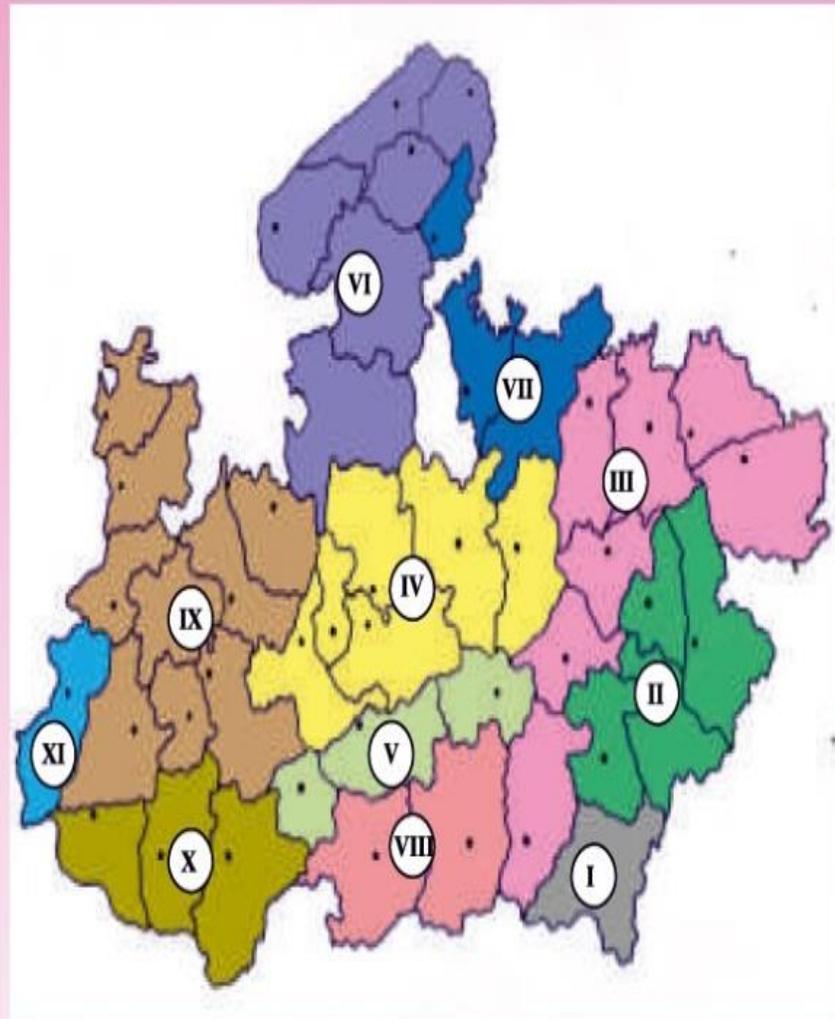
STATE PROFILE: MADHYA PRADESH

Particulars		Status		
Population	(Crore)	7.27 (Male- 3.77, Female-3.51)		
Population	Growth (%)	20.35 - 2011		
Revenue	Districts (Nos.)	51		
Block/Janpad Panchayat	(Nos.)	313 (89 Tribal Blocks)		
Village Panchayat	(Nos.)	23006		
Tehsil	(Nos.)	364		
Total Village	(Nos.)	54903		
Krishi Upaj Mandi	(Nos.)	520		
Annual Rainfall	(Ave.)	1200 mm		
Land Use Pattern (Area : lakh ha)		Agricultural land use (Area -lakh ha)		
Geographical Area	307.56	Net sown area	154.55	
Cultivable area	158.72 (51.60%)	Double Cropped Area	83.62	
Forest area	85.88 (27.92%)	Gross cropped area	238.17	
Land under non-agricultural use	19.92 (6.48%)	Kharif Area	152.52	
Permanent pastures	13.48 (4.38%)	Rabi Area	85.65	
Cultivable wasteland	8.67 (2.82%)	Cropping Intensity	156 %	
Barren and uncultivable land	14.06 (4.57%)			
Current fallows	7.69 (2.50%)			
Particulars		Status		
Operational Land Holding (Area : Lakh ha, Number-Lakh)				
Average Size of Social Groups		Average Size (ha)	Numbers (%)	Area (%)
Marginal	(< 1 ha)	0.49	38.91 (43.85)	19.15 (12.09)
Small	(1 to 02 ha)	1.42	24.49 (27.60)	34.66 (21.89)
Semi Medium	(02 to 04 ha)	2.73	16.55 (18.65)	45.10 (28.48)
Medium	(04 to 10 ha)	5.76	7.89 (8.90)	45.45 (28.70)
Large	(10 ha & Above)	15.73	0.89 (1.00)	14.00 (8.84)
Total		1.78	88.73	158.36
Irrigation (lakh ha)		Sources of Irrigation (Area : lakh ha)		
Net irrigated area	85.50 (64%)	Canals	10.91 (17 %)	
Gross irrigated area	89.65	Tanks	1.49 (2.34 %)	
Rainfed area	60%	Open wells	24.03 (37.75%)	
		Bore wells/Tube Wells	17.93 (28.17%)	
		Other Sources	14.25 %	
		Total Irrigated Area	63.65	
Major Soils (Area - lakh ha)				
1. Alluvial Soil	33.5 (11%)	2.Deep Medium black soils	162.1 (53%)	
3. Shallow & Medium Black Soil	30.6 (10%)	4. Mixed Red & Black Soil	81.1 (26%)	
Major Crops				
% Share to TKA*	Soybean (42%), Paddy (16%), Urd (9%), Maize (9%), Tur (6%),			
% Share to TRA*	Wheat (55%),Gram (28%),Mustard(7%),Lentil (5%),Pea (2%),Linseed (1%).			
Ranking & % Share to TPI*	1 st - Pulses (27%), Oilseeds (27%), Soybean (50%), Gram (39%), Niger (35%) 2 nd - Lentil (33%), Pea (27%), Mustard (11%); 3 rd - Arhar (17%), Wheat (18%)			
Development Programme under implementation				
NFSM	NFSM-Paddy (8) ; Wheat (16) ; Pulses (51); Coarse Cereals (16); Cotton (10); Sugarcane (8) PMT District-51 Mini Mission I- (Oilseeds), Mini Mission III- (TBOs)			

Source- ENVIS, Centre of M.P. State. TKA-Total Kharif Area; TRA - Total Rabi Area;
TPI*- Total Production in India

AGRO-CLIMATIC ZONE OF MADHYA PRADESH

AGRO-CLIMATIC ZONES OF MADHYA PRADESH



- I** CHHATTISGARH PLAINS
(Balaghat)
- II** NORTHERN HILLS ZONE OF CHHATTISGARH
(Mandla, Dindori, Shahdol, Anuppur & Umariya)
- III** KYMORE PLATEAU AND SATPURA HILLS
(Jabalpur, Katni, Seoni, Rewa, Panna, Sidhi,)
- IV** VINDHYAN PLATEAU
(Sagar, Damoh, Bhopal, Raisen, Sehore, & Vidisha)
- V** CENTRAL NARMADA VALLEY
(Narsinghpur, Hoshangabad & Harda)
- VI** GIRI ZONE
(Gwalior, Guna, Ashoknagar, Morena, Shivpuri, Sheopur & Bhind)
- VII** BUNDELKHAND ZONE
(Datia, Chhatarpur & Tikamgarh)
- VIII** SATPURA PLATEAU
(Chhindwara & Betul)
- IX** MALAWA PLATEAU
(Indore, Ujjain, Neemuch, Dhar, Mandsaur, Devas, Ratlam, Rajgarh)
- X** NIMAR VALLEY
(Khandwa, Khargone & Badwani)
- XI** JHABUA HILLS (Jhabua)

VISITED DISTRICTS OF MP: PROFILE

Particulars	Harda	Khandwa	Khargone	Barwani
Population (Lakh)	5.70	13.09	18.72	5.50
Annual Rainfall (mm)	1261.7	808.0	835.0	726.5
Land Use Pattern (000 ha)				
Geographical Area	330.6	775.6	819.00	529.85
Forest cover (000 ha)	104.79	282.55	168.00	158.51
Net sown area	179.30	315.41	396.00	239.73
Double Cropped Area	155.85	206.83	192.00	59.05
Gross cropped area	335.15	522.24	588.00	296.65
Cropping Intensity (%)	187	166	148	124
Irrigated area (%)				
Net irrigated area (%)	79	65	65	54
Major Crops	Mung Urd Soybean Gram Wheat Maize	Soybean, Wheat, Cotton Maize, Gram	Cotton, Maize, Arhar, Soyabean, Moong, Groundnut, Urd, Sorghum, Wheat, Gram, Sugarcane	Cotton, Maize, Soyabean, Sorghum, Wheat, Gram, Sugarcane

NATIONAL LEVEL MONITORING TEAM (NLMT) REPORT ON THE IMPLEMENTATION OF NATIONAL FOOD SECURITY MISSION KHARIF 2018 (RICE, PULSES, COARSE CEREALS, NUTRI-CEREAL AND COMMERCIAL CROPS) IN THE STATE OF MADHYA PRADESH

1. NFSM: BACKGROUND

- 1.1 The National Food Security Mission, a Centrally Sponsored Scheme (CSS) on Crop/commodity development programmes for Rice, Wheat and Pulses was launched during the 11th five year plan (2007-08 to 2011-12) consequent upon the recommendation of 53rd Meeting of National Development Council dated May 29th, 2007. The Mission envisaged to achieve additional food-grain production of 20 million tonnes from the base year 2006-07 consisting of Rice, Wheat & Pulses by 10, 8 and 2 million tonnes respectively by the end of Eleventh Plan (2011-12). During 2011-12, the all India food grains production was 259.29 million tonnes, a hike of 42 MT additional productions from the base year 2006-07. An Additional increase of 11, 19 and 2.89 million tonnes under rice, wheat and pulses respectively was recorded. Increase in per hectare yield of pulses was 87 kg (612 kg to 699 kg/ha) while increase in wheat and rice was 469 kg (3177 kg/ha) and 272 kg/ha (2393 kg).
- 1.2 During 12th Plan, the NFSM with the other four Missions, viz. NMAET, NMSA, NMOOP & MIDH is continued. The pattern of Central assistance under NFSM has been 100 per cent up-till 2014-15.
- 1.3 The Twelfth Plan NFSM (2012-13 to 2016-17), revamped from 2014-15 and is under implementation with five components viz. i) NFSM- Rice, ii) NFSM-Wheat, iii) NFSM-Pulses, iv) NFSM-Coarse Cereals (millets) and v) NFSM-Commercial Crops (Jute, Cotton, Sugarcane).
- 1.4 Beyond 12th Plan, the mission is being continued with new addition of NFSM-Nutri-cereals with production target of 13 million tonnes of foodgrains comprising 5 million tonnes of rice, 3 million tonnes of wheat, 3 million tonnes of pulses and 2 million tonnes of nutri-cum coarse cereals from 2017-18 to 2019-20.
- 1.5 As per the target, NFSM has achieved the bumper production of rice, wheat, pulses and nutri cum-coarse cereals, during 2017-18 (as per 4th advance estimates), the production of rice, wheat, pulses and nutri/coarse cereals have been achieved at the level of 112.91 million tonnes, 99.70 million tonnes, 25.23 million tonnes and 46.99 million tonnes respectively. The total food grains production achieved during 2017-18 is 284.83 million tonnes which is 3.5% increase against last year.

- 1.6 The existing Centrally Sponsored Scheme has also been rationalized and 03 schemes viz. (i) Krishi Unnati Yojana (ii) National Crop Insurance Programme (NCIP) and (iii) Pradhan Mantri Krishi Sinchai Yojana (PMKSY) are operational since 2015-16. NFSM-2015-16 is a part of Krishi Unnati Yojana (State Plan). From 2017-18, the revamped NFSM under State Plan Scheme – Krishi Unnati Yojana (State Plan) with interim sharing pattern of 60:40 and 90:10 for NE & hilly states between Centre and State is under implementation in 29 states.
- 1.7 The total NFSM allocation during 2018-19 for Madhya Pradesh is Rs. 348.10 Crore with a Central Share of Rs. 208.86 and State's share of Rs.139.24 Crore. For NFSM Pulses the total share is Rs. 278.62 cr. (Central –Rs. 167.17 + State –Rs. 111.45 cr.); for NFSM Rice Rs.15.20 cr. (Central- 9.12 Rs. + State – Rs. 6.08 cr.); for Wheat Rs. 32.83 cr. (Central- Rs.19.70 + State – Rs.13.13 cr.); for Coarse cereals Rs.10.19 cr. (Central- Rs.6.11 + State – 4.08 Rs. cr.); for Nutri-cereals Rs.11.25 cr. (Central- Rs.6.75 + State – 4.50 Rs. cr.); For Sugarcane Rs. 1.23 cr. (Central- Rs.0.73 + State-Rs.0.49 cr.); for Cotton Rs. 0.51 (Central- Rs.0.30 + State Rs. 0.21cr.) and for oilseed Rs.50.83 (30.50+20.33)
- 1.8 The basic strategy of the Mission is to focus on low productivity high potential districts, promote and extend improved technology package, implementation of cropping system centric interventions on technological package, agro-climatic zone wise planning and cluster approach demonstrations, Further 30% of total demonstrations would be Cropping System Based Demonstration (CSBD) with technical backstopping of ICAR/State Agricultural Universities (SAUs)/ on Rice, Wheat, Pulses; distribution of certified HYV seeds/Hybrid seeds, Resource Conservation Technology (RCT) tools, irrigation machineries/MIS, trainings and undertaking Local Initiatives to the tune of 9% of total budgetary allocation to improve productivity.
- 1.8.1 Special emphasis has also to be given by targeting reclamation of problematic soils, water logging areas and mitigation of adverse effects of climate change for high productivity areas, value chain integration (FPOs) and assistance to Custom Hiring Centre (CHCs). 30% of budgetary allocation has to be earmarked for women beneficiaries. To ensure equity, of the total budgetary allocation to a district proportionate expenditure under Special Component Plan (SCP) for SCs, Tribal Sub Plan (TSP) – SMF and Women farmers at 16%, 8%, 33% and 30% respectively is mandatory.
- 1.8.2 Strengthening of infrastructure at ICAR/SAUs/ATARI/KVKs by *Breeder Seed Production Programme, Seed hubs, Cluster Front Line Demonstration.*
- 1.8.3 *New initiatives have been taken for increasing production and productivity of Nutri-Cereals from 2018-19 onwards ie. Breeder seed production of nutri-cereals, creation of seed hubs, certified seed production, seed minikits allocation and strengthening/creation of Center of Excellence.*

2. AREA OF OPERATION (2018-19)

S.No.	Commodities	All India		Madhya Pradesh Districts (No.)
		States (No.)	Districts (No.)	
i.	NFSM-Wheat	11	126	16
ii.	NFSM-Pulse	29	638	51
iii.	NFSM-Rice	25	194	8
iv.	NFSM- Coarse cereals	27	269	22
	Maize	27	237	15
	Barley	4	39	8
v	NFSM-Nutri-cereal	14	202	24
	Jowar	10	88	9
	Bajra	9	88	4
	Ragi	8	44	-
	Other millets	7	43	15
vi.	NFSM-Commercial Crops			
	i) Cotton,	15		10
	ii) Sugarcane	13		13
	iii) Jute	09		-

3. MONITORING MECHANISM/MISSION STRUCTURE

Monitoring	Body	Composition	Review Meeting / Visit
National Level	i) General Council (GC)	Minister of Agriculture - Chairman Mission Director - Member Secretary (NFSM)	Twice a year
	ii) NFSM- Executive Committee (NFSMEC)	Secretary (A & C)- Chairman Secretary (DARE)&DG (ICAR) Secretary (MoWR) / (Deptt. of Fertilizer) / (MoPR)/(MoTA)/(Deptt. of Social Justice & / Empowerment) / (MoW&CD) Adviser (Agriculture), NITI AYO Agriculture Commissioner Five Experts - Member Mission Director - Member Secretary	Quarterly
	iii) National Level Monitoring Team	Director CDDs- Co-ordinator Scientist SAUs/JDA –Member	Twice a year (Kharif + Rabi)
State Level	State Food Security Mission Executive Committee (SFSMEC) Monitoring Committee	Chief Secretary – Chairman State Mission Director – Member Secretary State Mission Director – Chairman SAU – Member DPD/CDD Govt. of India – Member SSC – Member State Certification – Member Lead Bank/ NABARD – Member IISS/CIAE/NISR/DWR – Member	Twice a year (Kharif + Rabi)
District Level	District Food Security Mission Executive Committee	District Collector/CEO-Chairman Jila Parishad DDA/DAO –Member Secretary	Quarterly

4. NLMT OF MP : COMPOSITION

S. No.	Organization	Names and Designation
i.	Government of India Directorate of Pulses Development Ministry of Agriculture and Farmers Welfare (DAC&FW), Vindhyachal Bhavan, Bhopal.	Dr. A.K. Tiwari Director -Convenor/Team leader
ii	Government of Madhya Pradesh Deptt. of Farmers Welfare and Agriculture Development (Jabalpur/Hoshangabad Division)	Shri M.L Meena, Director/Mission Director (NFSM) - Member
iii	Department of Plant Protection JNKVV, Jabalpur	Dr. S. N Singh Head of the deptt. -Member
iv	Department of Plant Breeding JNKVV, Jabalpur	Dr. G. K. Koutu Chief Scientist -Member
v	Department of Plant Breeding R.A.K Agriculture University, Sehore	Dr. N. Tikle Chief Scientist -Member
vi	Government of Madhya Pradesh Deptt. of Farmers Welfare and Agriculture Development (Harda/Hoshangabad Division)	Joint Director (NFSM) Harda/Hoshangabad Division - Member

5 PRODUCTION SCENARIO: PLAN ANALYSIS (XITH- XIITH PLAN)

5.1 KHARIF CROPS

(A-Lakh ha, P-Lakh tonnes, Y-kg/ha)

S. N.	Crops	State/ AI	XI Plan			XII Plan			Increase/decrease over XI Plan		
			A	P	Y	A	P	Y	A	P	Y
A	Cereals										
1	Paddy	MP	15.90	16.56	1041	20.5	33.9	1654	29	105	59
		AI	392.15	834.02	2127	395.39	925.93	2342	1	11	10
2	Jowar	MP	4.54	5.89	1297	2.37	4.2	1772	-48	-29	37
		AI	30.65	33.33	1087	22.34	22.63	1013	-27	-32	-7
3	Bajra	MP	1.72	2.79	1616	2.3	4.84	2104	33	74	30
		AI	91.23	92.02	1009	74.03	89.95	1215	-19	-2	20
4	Maize	MP	8.49	11.32	1333	10.41	22.04	2117	23	95	59
		AI	71.48	149.29	2089	74.22	170.67	2300	4	14	10
5	Small millet	MP	2.80	0.84	300	1.9	0.92	484	-32	9	61
		AI	8.75	4.54	519	6.59	4.17	633	-25	-8	22
6	*Kha. Coarse Cereals	MP	17.56	20.84	1187	17.01	32.01	1869	-3	54	58
		AI	215.11	299.58	1393	188.55	305.06	1623	-12	2	17
7	Total Cereals	MP	33.47	37.41	1118	37.51	65.91	1757	12	76	57
		AI	607.26	1133.61	1867	583.94	1230.99	2108	-4	9	13

5.1 KHARIF CROPS

(A-Lakh ha, P-Lakh tonnes, Y-kg/ha)

S. N.	Crops	State/ AI	XI Plan			XII Plan			Increase/decrease over XI Plan		
			A	P	Y	A	P	Y	A	P	Y
B Pulses											
1	Arhar	MP	4.06	2.57	632	5.57	5.2	934	37	103	48
		AI	37.89	26.64	703	41.9	32.88	785	11	23	12
2	Urd	MP	5.15	1.83	354	8.38	4.64	554	63	154	56
		AI	23.05	10.90	473	27	14.72	545	17	35	15
3	Moong	MP	0.83	0.27	328	1.49	0.72	483	80	165	47
		AI	26.41	10.49	397	24.93	10.51	422	-6	0	6
4	Kulthi	MP	0.23	0.07	301	0.16	0.06	375	-31	-14	25
		AI	3.29	1.43	433	2.27	1.06	467	-31	-26	8
6	Total Pulses*	MP	10.32	4.75	460	15.66	10.67	681	52	125	48
		AI	111.49	57.33	514	111.93	65.52	585	0	14	14
*Total Pulses incl.(Mothbean, Other & Other Pulses)											
C. Oilseed											
1	Soybean	MP	53.45	61.37	1148	58.45	61.91	1059	9	1	-8
		AI	95.67	111.58	1166	112.51	117.26	1042	18	5	-11
2	G.Nut	MP	2.00	2.56	1277	2.27	3.43	1511	13	34	18
		AI	49.01	57.20	1167	42.01	57.18	1361	-14	0	17
3	Sesamum/ Til	MP	2.46	1.12	456	3.37	1.66	493	37	48	8
		AI	19.07	7.38	387	17.5	7.65	437	-8	4	13
4	Niger/ Ramtil	MP	1.15	0.24	212	0.72	0.25	347	-37	3	64
		AI	3.82	1.06	278	2.7	0.87	322	-29	-18	16
5	Total Oilseeds	MP	59.07	65.30	1105	64.86	67.26	1037	10	3	-6
		AI	182.19	193.73	1063	187.47	201.72	1076	3	4	1
D	Cotton*	MP	6.44	13.15	347	5.66	19.06	572	-12	45	65
		AI	104.73	280.76	456	119.75	335.02	476	14	19	4
* Thousand bales of 170 kgs each.											

Source: DES, M/A, GoI (XIIth Plan* : Average of 2012-13 to 2016-17)

Kharif Impact Analysis: The comparative analysis of crop performance during the XIth Plan period and XIIth Plan period reveal that the NFSM interventions since 11th Plan has paid dividends in the production and yield of Paddy which is 105% and 59% higher during XIIth Plan over its previous five year Plan and also seen under Bajra (33%, 74% and 30%) and Maize (23%, 95% and 59%) with an increase in area, production and yield respectively. The cereal, other pulses & oilseeds crops also replaced through diversification by Arhar, Urd Mung, Groundnut and Til in kharif season. The production trend for kharif crops has shown an increasing trend in Paddy, Bajra, Maize, Arhar, Urd, Mung, G.Nut and Til. As regards the per hectare yield, quantum jump has been recorded under Cotton, Niger, Small millets, Paddy, Maize, Coarse cereal, Urd, Arhar and moong at 65, 64, 61, 59, 59, 58 , 56, 48 and 47 % respectively.

5.2 RABI CROPS

(A-Lakh ha, P-Lakh tonnes, Y-kg/ha)

S. N.	Crops	State/ AI	XI Plan			XII Plan			Increase/decrease over XI Plan		
			A	P	Y	A	P	Y	A	P	Y
A. Cereals											
1	Wheat	MP	42.07	80.26	1908	57.24	157.61	2753	36	96	44
		AI	286.36	843.62	2946	306.29	933.36	3047	7	11	3
2	Barley	MP	0.75	1.02	1363	0.94	1.66	1766	26	63	30
		AI	6.56	15.04	2292	6.64	16.76	2524	1	11	10
7	Total Cereals	MP	42.84	81.31	1898	58.28	159.56	2738	36	96	44
		AI	392.32	1081.93	2758	408.44	1182.3	2895	4	9	5
B. Pulses											
1	Urd	MP	0.07	0.02	348	0.17	0.14	824	149	488	137
		AI	7.74	4.05	524	8.14	6.1	749	5	50	43
2	Moong	MP	0.03	0.01	239	1.4	0.76	543	4416	10170	127
		AI	6.46	2.80	434	9.62	5.6	582	49	100	34
3	Kulthi	MP	0.00	0.00	296	0.01	0.007	700	149	489	137
		AI	2.11	1.07	507	2.09	0.98	469	-1	-8	-7
4	Gram	MP	29.04	27.60	951	30.76	33.97	1104	6	23	16
		AI	82.18	72.42	881	89.45	84.25	942	9	16	7
5	Lentil	MP	5.50	2.33	424	5.58	3.86	692	1	65	63
		AI	14.64	9.60	655	13.77	10.41	756	-6	8	15
6	Lathyrus	MP	0.47	0.31	654	0.09	0.07	778	-81	-77	19
		AI	5.16	3.42	662	4.58	3.84	838	-11	12	27
7	Pea	MP	2.34	0.96	412	3.72	2.95	793	59	207	93
		AI	7.16	6.21	868	9.33	8.81	944	30	42	9
8	Total Pulses	MP	37.47	31.24	834	41.86	41.8	999	12	34	20
		AI	128.91	101.58	788	140.84	122.9	873	9	21	11
C. Oilseed											
1	Rapeseed /Mustard	MP	7.22	7.69	1065	7.17	8.13	1134	-1	6	6
		AI	61.01	68.85	1128	61.25	73.8	1205	0	7	7
2	Linseed	MP	1.19	0.46	390	1.14	0.58	509	-4	25	30
		AI	3.80	1.57	413	2.93	1.51	515	-23	-4	25
3	Total Oilseeds	MP	8.42	8.16	969	8.45	8.8	1041	0	8	7
		AI	85.29	95.54	1120	77.32	93.74	1212	-9	-2	8
D.	Sugarcane	MP	0.68	28.07	41023	0.88	40.79	46352	29	45	13
		AI	47.14	3257.87	69118	48.84	3420.38	70032	4	5	1

Source: DES, M/A, GoI (XIIth Plan* : Average of 2012-13 to 2016-17)

Rabi Impact Analysis: The comparative analysis of crop performance during the XIth Plan period and XIIth plan reveal that the NFSM interventions since 11th Plan has paid dividends in area, production and yield of Wheat which is 36%, 96% and 44% higher during XIIth plan over its previous five year Plan and also seen under Moong, Urd, Kulthi, Pea, Sugarcane, Barley, Gram and Lentil crop with an increase in area at 4416%, 149%, 149%, 59%, 29%, 26%, 6% and 1% whereas, increasing trend in production at 10170%, 488%, 489%, 207%, 45%, 63%, 23 and 65% respectively. The crops replaced through this diversification in rabi season are lathyrus (81%), linseed (4%) and rapeseed and mustard (1%) of concern here. As regards the per hectare yield, quantum jump has been recorded under Urd, Mung, Peas, Lentil, Wheat and Barley at 137%, 127%, 93%, 63%, 44% and 30% respectively.

KHARIF CROP SCENARIO: XIth & XIIth PLAN – MADHYA PRADESH

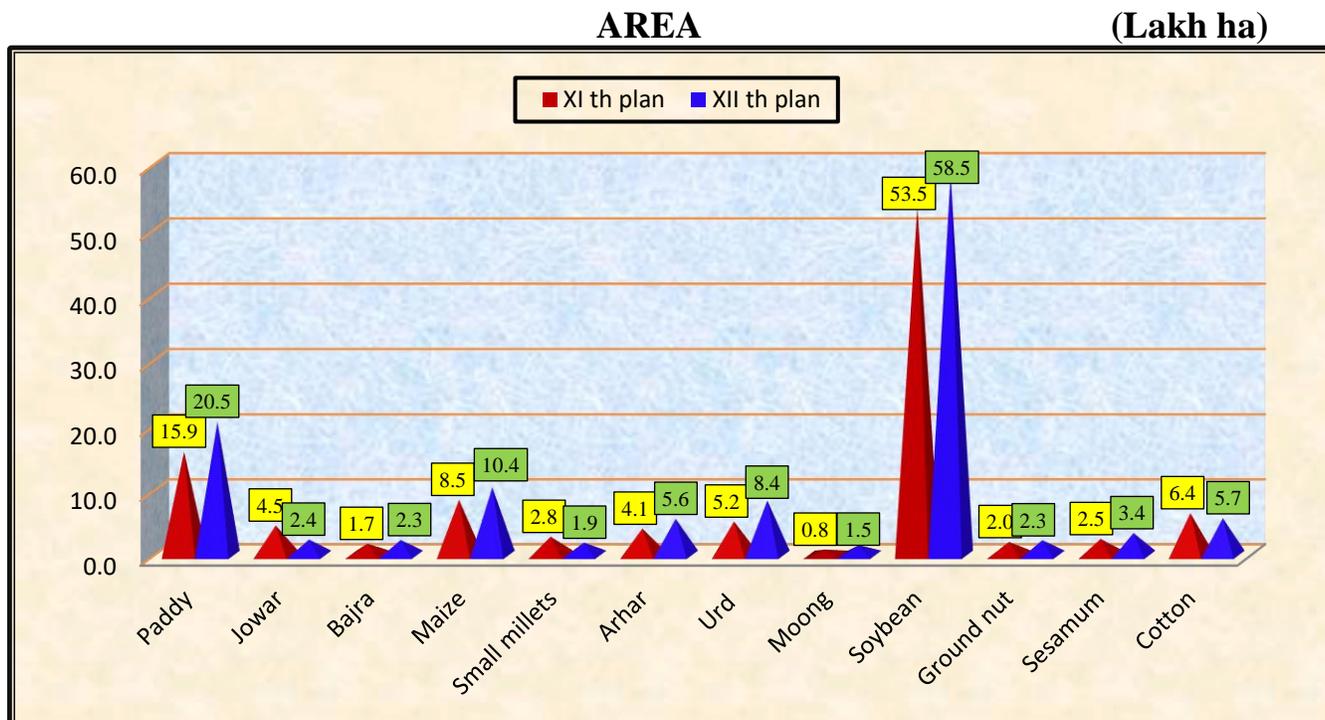


Fig. 01: Crop Coverage: Pre-NFSM (XIth Plan) and Post-NFSM (XIIth Plan)

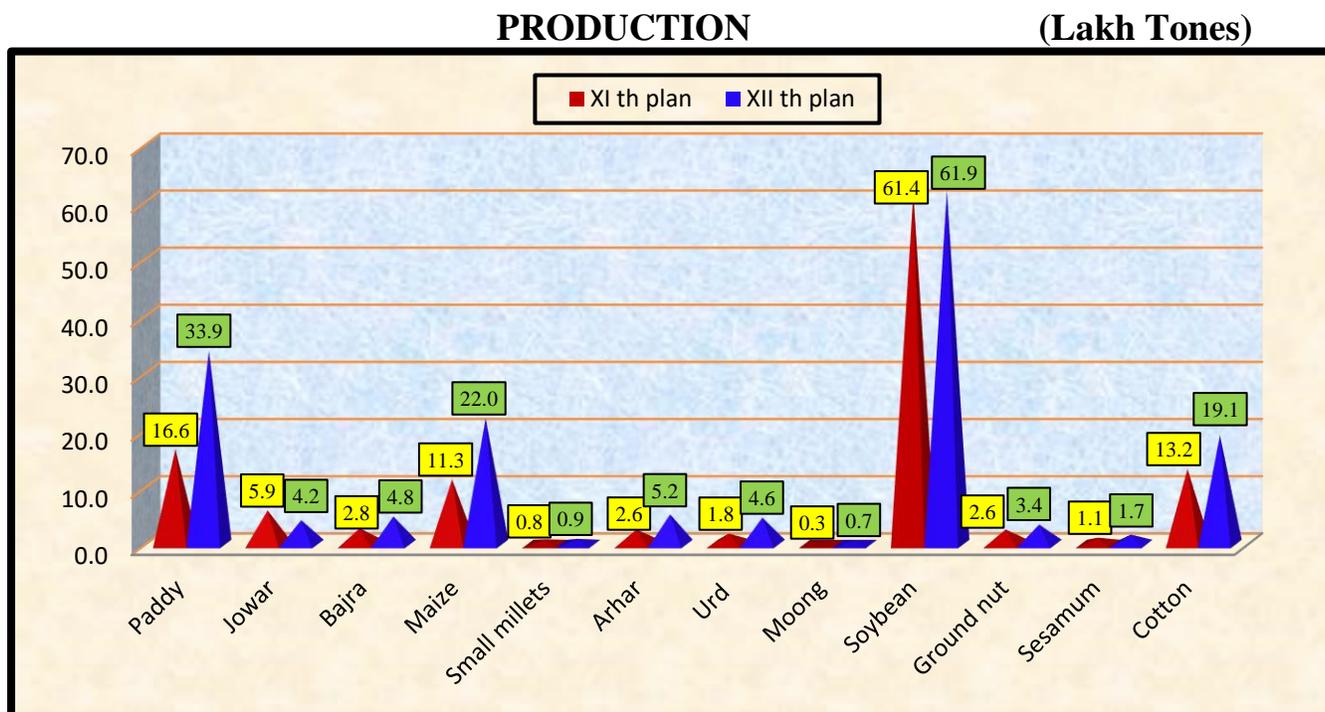


Fig. 02: Production: Pre-NFSM (XIth Plan) and Post-NFSM (XIIth Plan)

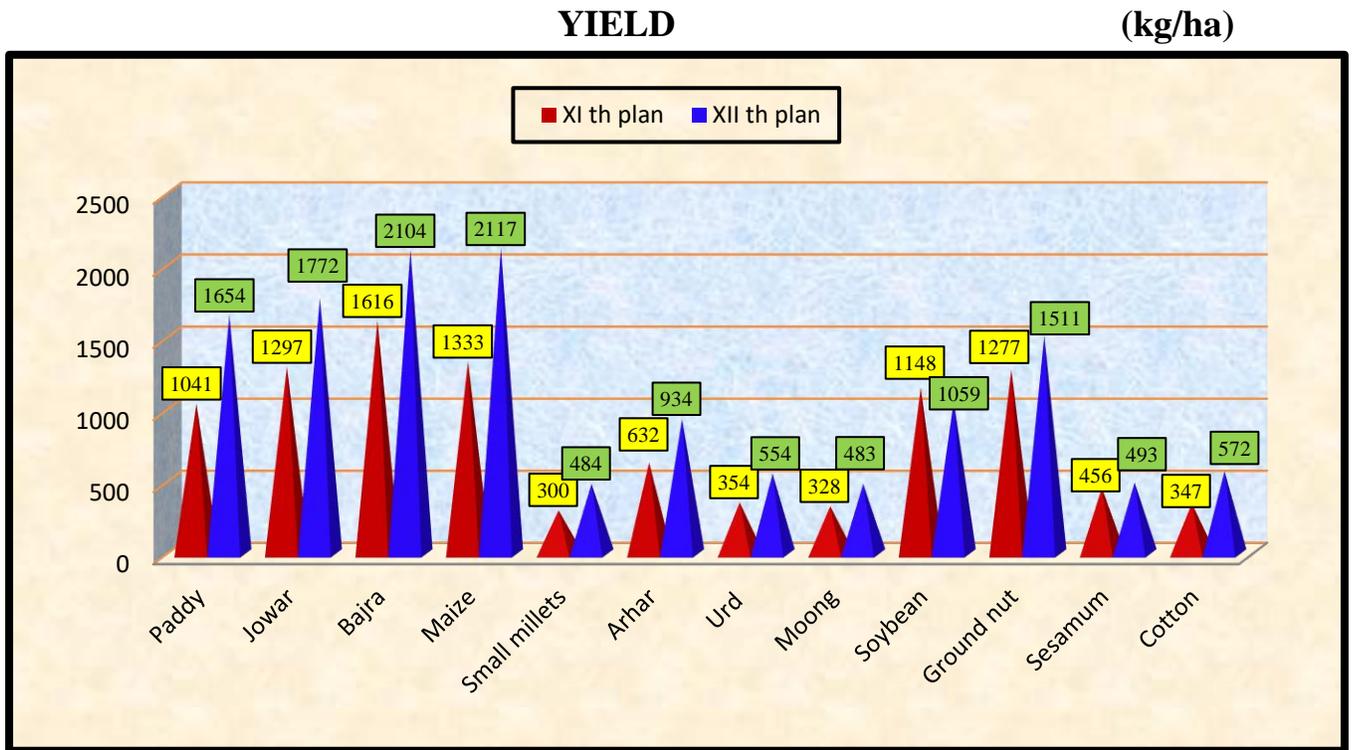


Fig. 03 : Yield: Pre-NFSM (XIth Plan) and Post-NFSM (XIIth Plan)

RABI CROP SCENARIO: XIth & XIIth PLAN – MADHYA PRADESH

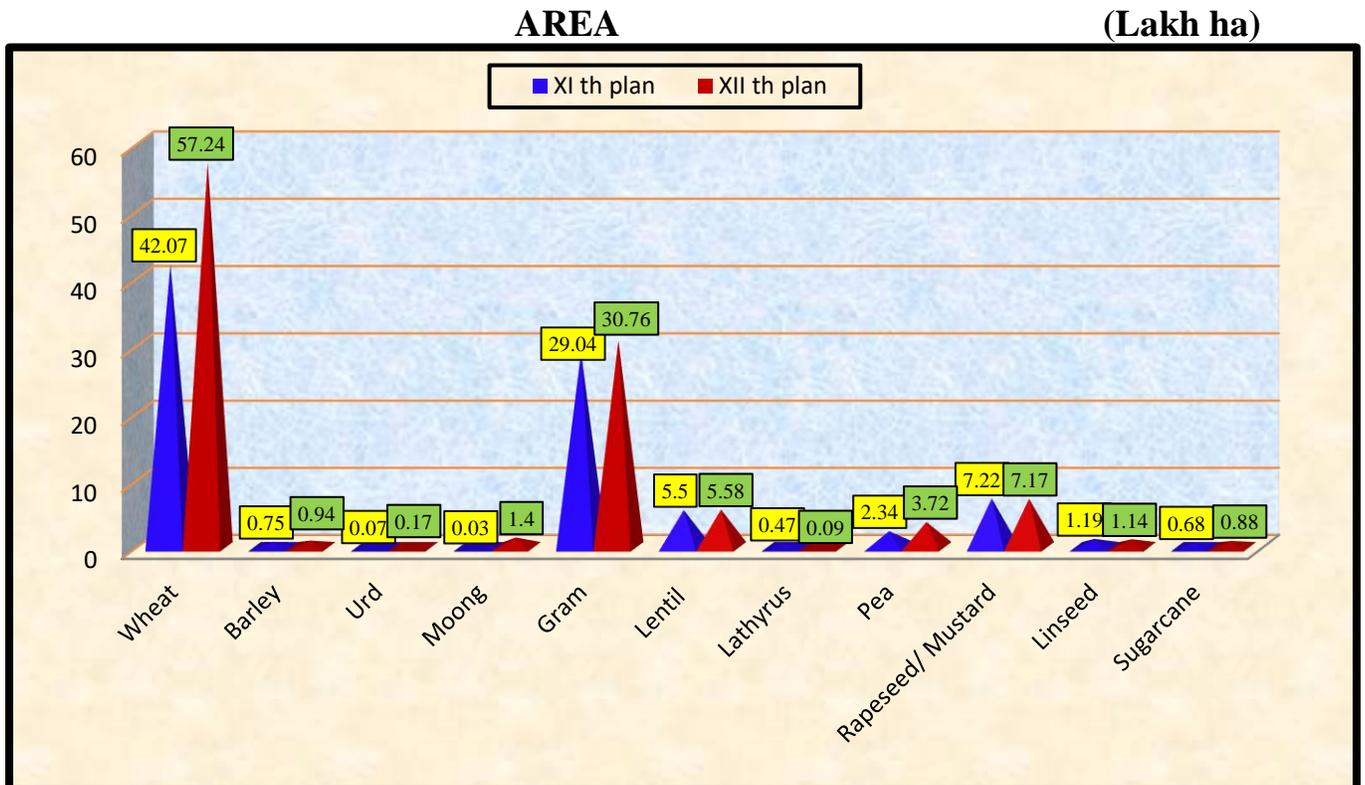


Fig. 04 : Crop Coverage: Pre-NFSM (XIth Plan) and Post-NFSM (XIIth Plan)

PRODUCTION

(Lakh Tones)

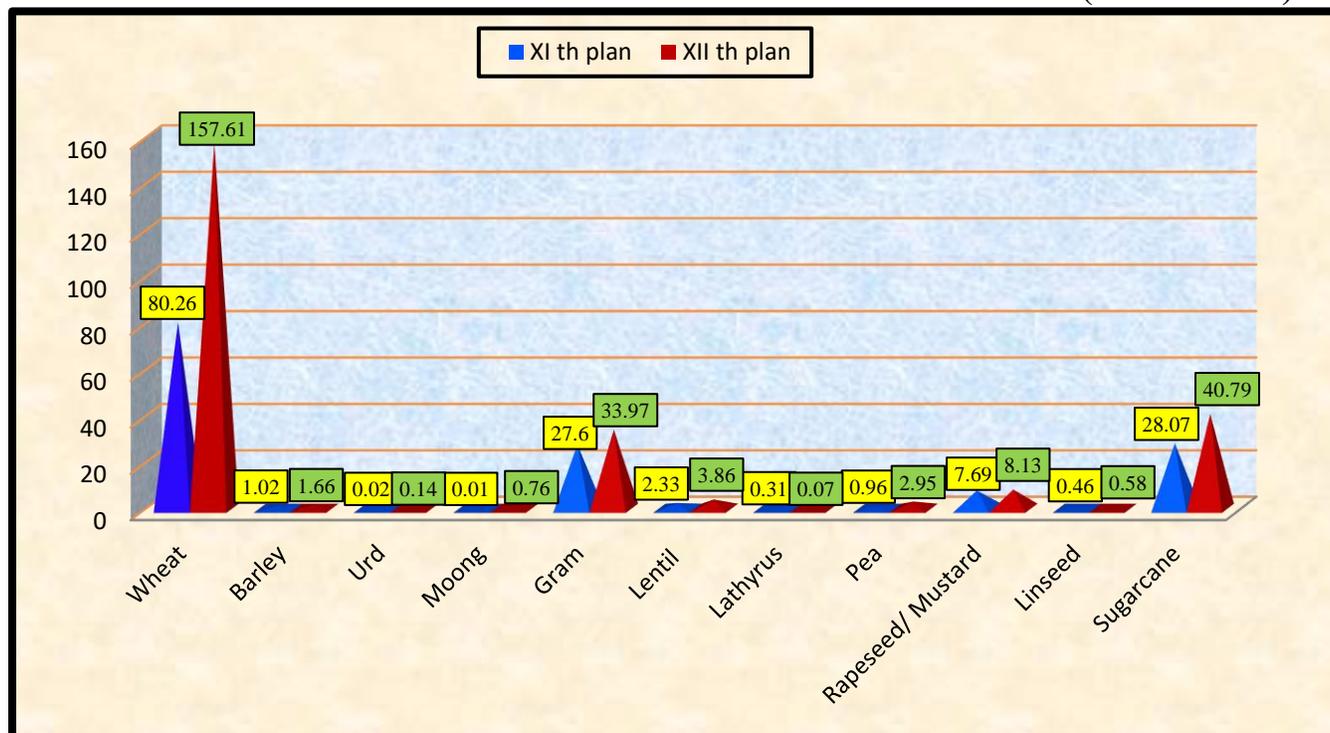


Fig. 05 : Production: Pre-NFSM (XIth Plan) and Post-NFSM (XIIth Plan)

YIELD

(kg/ha)

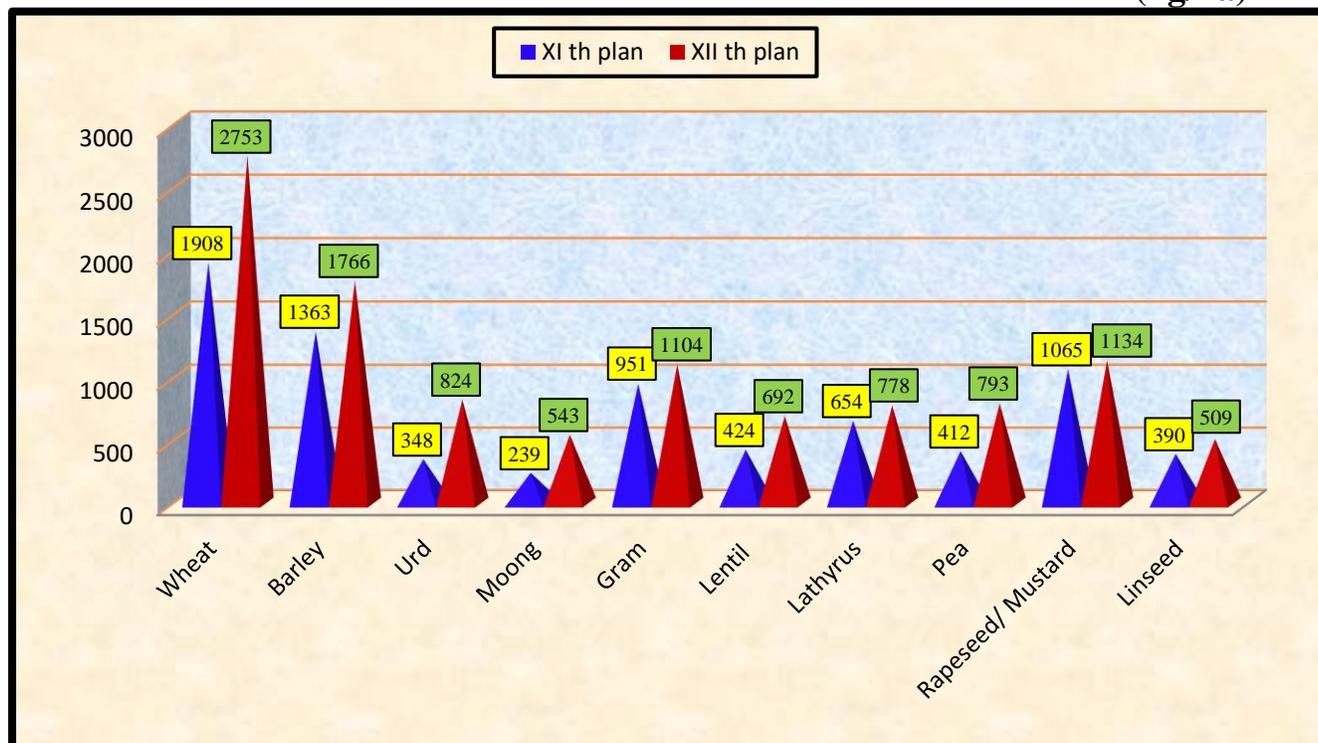


Fig. 06: Yield: Pre-NFSM (XIth Plan) and Post-NFSM (XIIth Plan)

6.0 DISTRICT-WISE FIELD VISIT OBSERVATIONS

District/Block	Village	Events organized/activity exhibited to NLMT	Observations/remarks
Dist.-Harda Block-Timarni (08-10-2018)	Barja	Cluster demonstration Organic farming	<ul style="list-style-type: none"> • Here, The NLMT met with the farmer Dr. Atul Bhuskute and Dr. Vivek Bhuskute (9926669911) who is doing organic farming in 25 acre of land. • Mix-cropping of turmeric (var.-Roma) + pigeonpea (var.- Daftari-48) as a shed crop was grown in farm field with row to row distance:3ft. Whereas, plant to plant distance was found dense and need the thinning for proper growth of plant. • Beneficial insects like lady bird beetle were also seen. • The pigeonpea crop was in bud initiation stage. • Moong and gram was fully established in organic land where organic farming is done from last 15-20 yrs. • Cotton crop (Bt. Cotton – var.-Nirmal-744 and Ankur) was also grown in 1 acre land. • <i>It was also seen that the Helicoverpa menace in gram has reduced drastically since 2005 due to introduction of Bt. Cotton caused a break of helicoverpa insect life cycle.</i> • Paddy var. Pusa Sugandh was in good condition. • Sugarcane var.- CO-86032 ratoon of 7th series was also taken in 4 acre. • The District officials informed that the Gypsum was not available in deptt. Whereas, the KVK scientist has informed that 2,000 soil samples were found highly rich in calcium. Hence, only soil test based Sulphur may be applied. • <i>Farmer informed that the Powertiller provided under subsidy is out of order. The farmer has been advised to contact Skill Development Center or Engineering department.</i> • <i>During visit, it came to notice that the soybean variety RVS-2001-4 is highly responsive hence variety wise agronomic package is highly recommended to be prepared and distributed.</i>

District/Block	Village	Events organized/activity exhibited to NLMT	Observations/remarks
Dist.-Harda Block-Timarni (08-10-2018)	Bhanwrash	Cluster Demonstration	<ul style="list-style-type: none"> Here, Scented rice variety Pusa Basmati-6 (Pusa-1401) and Pusa Basmati 1637 was transplanted on 13 June in field of farmer Mr. Sukhpal Singh (986457977). The fungal infection, stem rot and brown aphid infestation were observed in the aromatic rice field. He has also started growing gram var. - JG-15 and JG-130 from last one year.
Dist.-Harda Block-Timarni (08-10-2018)	Lakha khedi and Billod	Cluster demonstration Kishan Gosthi	<ul style="list-style-type: none"> Soybean var.-JS-9560 and RVS 2001-4 were taken by one farmer. However, the farmer informed that they get a yield of 10 qtls/ha of soybean only due to problem of irrigation water. <i>They said that instead of availability of canal irrigation they faced the problem of water scarcity for irrigation which badly affects the yield of crops.</i> RH-406 mustard (Yield- 30qtls/ha) was demonstrated by KVK. The KVK has also produced foundation seed of gram var.-JG-14 which recorded a yield of 37.50 qtls/ha and has proposed to produce seed of gram var-JG-12 and JG-14. The KVK official informed that the Pusa Anmol and JW-3382 are the best recommended wheat varieties for MP and GW 322 is the most prevalent one. Therefore, farmers have been advised to adopt new wheat varieties like Pusa Anmol and JW-3382 etc. MP-1202 and MP-1203 Zn & Fe rich varieties whose seed is available in ZRS, Pawarkheda.
Dist.-Harda Block-Timarni (08-10-2018)	Charkheda	Cluster demonstration Organic farming	<ul style="list-style-type: none"> The farmer Mr. Sushil Kumar (9926366473) was doing organic farming of hybrid maize Monsanto- 9126 and obtained yields of 75 qtls/ha. However, the NLMT has advised the farmer to grow the composite maize (var.-JM-218) as their seed need no replacement in every year like the hybrid one. Pigeonpea var.- Daftari-48 was also grown in field. The crop was at bud initiation stage.
Dist.-Harda Block-Timarni (08-10-2018)	-	Visit to Seed Hub	<ul style="list-style-type: none"> <i>The officer informed that the Seed hub shall be constructed by Nov. 2018 and estimated to produce 175 qtls of foundation seed of gram var.- JG-14 which has to be sold to the deptt.</i>

District/Block	Village	Events organized/activity exhibited to NLMT	Observations/remarks
Dist.-Harda Block-Harda (08-10-2018)	Sontalai	Organic farming	<ul style="list-style-type: none"> The farmer Shri Manoj Patel (9826338522) has done organic farming in 80 acre for last 06 years which is accredited by APEDA as organic farm and also encouraged other farmer for the same.
Dist.- Khandwa Block- Khandwa (09-10-2018)	Badgaon Piplod	Visit to RKVY beneficiary farm shed net house	<ul style="list-style-type: none"> The farmer Shri Atma ram Patel (9754853563) is a beneficiary of RKVY cluster shed net 2017-18, 4000sq meters. He was cultivating the Capsicum (var. Syngenta Indra) in the net house. The Crop was in full fruiting stage. Organic formulations like <i>Trichoderma viride</i>, <i>Verticillium</i>, <i>Metarhizium</i> is also being prepared by him and he has sold the cucumber of Rs. 5.29 Lakh during 2017-18. He also motivates other farmers to grow other value added crop for doubling their income.
Dist.- Khandwa Block- Khandwa (09-10-2018)	Kalpat	Organic farming Drip supported cultivation of melon	<ul style="list-style-type: none"> Here, Shri Anil Patidar (9009657234) was doing organic farming and the farms are certified under MPSOCA (Madhya Pradesh State Organic Certification Agency). The beneficiary farmer has been provided the drip irrigation system. Drip supported value crop (melon) under mulch was being taken after diversification of crops. Inter cropping of soybean (var.- JS 9305) + Guava (12×10 ft.) plantation has been done in 4 ha and Soybean yield was obtained @15 qtls/ha . Now farmer will take gram in guava orchard (3500 plants in 4ha). The farmer informed that the whole project is drip supported. DDA has requested for maximum targets of Drip in the district to cover more farm.
Dist.- Khandwa Block- Khandwa (10-10-2018)	Jaswari	Kishan Gosthi	<ul style="list-style-type: none"> The demonstration of moong var.-MH-421 was mostly failed in some of farmer's field. So, the farmers usually sale the produce to market and do not keep the seed for their use. NLMT suggested that all the farmers covered under demonstration should be motivated to keep some seed for their use.

District/Block	Village	Events organized/activity exhibited to NLMT	Observations/remarks
Dist.- Khandwa Block- Khandwa (10-10-2018)	Jaswari	Kishan Gosthi	<ul style="list-style-type: none"> • <i>Moong variety MH-421 response has not been good in Khandwa. While, During Kharif, it yielded 20 qtls/ha in Harda districts. It is, therefore, recommended to use this variety during summer.</i> • Farmers have been advised to use RVKG-101 Kabuli gram varieties instead of double dollar. As, Double dollar is susceptible to wilt while Phule- G-5, Kripa, RVKG-101 and JGK-3 are tolerant to wilt. • <i>It was also come in view that the implements online website is not working properly as per the feedback of farmers.</i>
Dist.- Khargone (11-10-2018)	-	FLD (Front line demonstration) under AICRP- pigeonpea,	<ul style="list-style-type: none"> • Here, FLD on pigeonpea was organized by KVK under the AICRP-pigeonpea. • Pod fly infestation was observed in the pigeonpea field, advised to spray Profenphos 50 EC @ 2ml/lit of water at bud initiation stage. • <i>The KVK officers informed that the TSP was not given during 2017-18 and 2018-19.</i> • <i>Here, the new seed hub registration was completed on 14.08.2018 and construction of first floor of building was completed till date.</i> • Breeder seed production of RVS-2001-14, RVG-202, RVKG-101 and JAKI-9218 was also taken.
Dist.- Khargone Block- Goganwa (11-10-2018)	Rajpura	Cluster demonstration Visit to field of sprinkler set beneficiary farmer	<ul style="list-style-type: none"> • Cluster demonstration of Arhar var. Rajeev Lochan (Maturity at 170 days); line sowing on 26th June was organized. • Dry spell in Khargone for 30 days ie. July-August badly affected the crop. • The farmer has done intercropping of soybean (2 rows) var. JS 9560 with arhar. The soyaben yielded 07 qtls. Whereas, Tur crop was at budding/flowering stage. • The farmer also discussed about the problem of pod borer in tur so the team advised them to spray cypermethrin 25% EC @250-300ml/acre. • NLMT met with Shri Girdhari (8269088377), beneficiary of sprinkler set and took the feedback related to implement. • K-9 (Kadri-9) groundnut was also seen in village which was already harvested.

District/Block	Village	Events organized/activity exhibited to NLMT	Observations/remarks
Dist.- Khargone Block- Goganwa (11-10-2018)	Chhatalgaon	Cluster demonstration of pigeonpea and moong Seed distribution of Rabi Maize	<ul style="list-style-type: none"> • Rabi maize (hybrid Pioneer 3596) seed have been supplied @20 kg/ha under NFSM Coarse Cereals. The crop was planted in ridge by hand dibbling method. • Dharward planted Arhar (Nirmal seed at 4.5*1.5 ft.) yielded @35qtls/ha last year. • Groundnut intercropping with arhar was also done which recorded a production of 2qtls. • The farmer informed that he was taking Dharward pigeonpea for the last 3 yrs in 1 acre area. • Pigeonpea var. Rajeev lochan was also demonstrated along with moong (indigenous variety). • The crops were in good condition.
Dist.- Khargone Block- Goganwa (11-10-2018)	Nagjhiri	Organic farming	<ul style="list-style-type: none"> • The team visited the field of Shri Ramchandra Kushwaha (9981563209) and Shri Sanjay Kushwaha (9589911511) where the crop condition was good and also the field of Shri Avinash Dangi (9993586861) where he is doing organic farming and motivates other farmer to do the same to maintain the soil fertility.
Dist.- Khargone Block- Khargone (11-10-2018)	Dalka	Plantation of horticulture crop for doubling farmer income	<ul style="list-style-type: none"> • Here, team visited the orchard of Shri Kamal Patidar (9893623999) where guava var.-Allahabad Safeda and Thai-1(planting material taken from West Bengal 24 South Pargana) plantation was done in 3acre supported by MIDH. • The farmer informed that the orchard was 4 year old but the fruiting started after 6 month of planting and last year he sold fruits for Rs. 4.78 lakh. • He was also doing cultivation of Apple ber in 1.5 Acre orchard from 2014-15 which gave an earning of Rs. 2 lakh per year. • The intercropping of pumpkin was also taken in orchard which gave an earning of Rs. 6000 per year. • NLMT suggested the use of INM as per scientific recommendation and instructed the district official to provide expert advice from horticulture deptt. about the cultivation of crop in scientific way to get more benefits.

District/Block	Village	Events organized/activity exhibited to NLMT	Observations/remarks
Dist.- Khargone Block- Khargone (11-10-2018)	Dalka	Onion seed production	<ul style="list-style-type: none"> The team met with Shri A. K Pandey (8987192019) who was producing the onion seed. The project was supported by NHRDC, Indore and the farmer was able to earn Rs. 7.50 lakh from the seed production of onion. Here, an Onion storage house was also constructed under RKVY in 2011.
Dist.- Khargone Block- Segaon (11-10-2018)	Talakpura	Visit to the field of beneficiary of Bhavantar yojana, Seed distribution of hybrid maize and wheat	<ul style="list-style-type: none"> Under NFSM programme, hybrid maize seed was provided to the farmer, yield was @ 30qtls/acre. The area under the programme has been increased during Rabi season. The farmers were also got benefits under Bhavantar yojana. Team met with one of beneficiary farmer Shri Ganga Ram Verma and took his feedback. The officers informed that there are >1 lakh farmers registration in PACs, procurement centres and mandis for cotton and soybean. Cotton var. Rashi-659 (Bt. Variety) sown in May were in full maturity stage and has been harvested in Oct end. Prevalent rate of cotton are good i.e. @ Rs. 5400/qtl and Cotton Corporation of India (CCI) rates are @Rs. 5150/ha. Hence farmers were selling their produce in open market. Wheat seed var. HI-1544 and GW-366 was provided to the farmer for Rabi season as the farmer will take wheat after harvest of cotton.
Dist.- Khargone (11-10-18)	-	Joint meeting with officials to discuss about the implementation of NFSM in the district	<ul style="list-style-type: none"> DDA informed that the ponds constructed under the schemes needs lining. The lining is needed for horticultural crops like guava, amla, banana etc. so the more target is needed for this. There is a need of promotion of fisheries to increase farmer income. He also informed that the seed certification is done online. The DDA requested to provide the subsidy in breeder seed production under horticulture crops (eg. Onion etc.). There is a wide gap in the accountability & implementation of mechanization component between department of Engineering and DDA.

District/Block	Village	Events organized/activity exhibited to NLMT	Observations/remarks
Dist.- Khargone (11-10-18)	-	Joint meeting with officials to discuss about the implementation of NFSM in the district	<ul style="list-style-type: none"> • A veterinary polyclinic has also been established here, funded by RKVY in 2013-14. Now building is likely to be handed over during 2018-19. • KVK officials have informed that the KVK has done CFLDs on Soybean (75 beneficiaries) and on moong var. IPM-2-14 (75 beneficiaries.) in Kharif season.
Dist.-Barwani (12-10-18)	-	Review meeting with stake holders	<ul style="list-style-type: none"> • The DDA informed that the State Seed corporation has target to supply seed of variety JAKI-9218 (171 qtls), HI-1544 (165 qtls) and GW-366 (103 qtls). • Procurement rate of wheat seed is Rs. 2000/qtls and of gram is Rs. 4600/ha. Hence, the procurement rates should be enhanced in comparatively to Bhavantar and Shamridhi. • Number of minikits may be increased for tribal district like Badwani. • Fisheries should also be promoted to increase farmers' income. • Dr. L.S. Baghel informed that an amount of Rs. 60 lakh under RKVY has been given to construct the veterinary polyclinic which was completed and running properly. • There is a great scope of horticulture crop cultivation in district and maximum farmers were using drip irrigation and mulching to conserve water losses. But during interaction with farmer the main constraints in view is the lack of market linkage especially the transport facility. FPO funds may also be provided. • <i>Online pipes, drip/sprinklers being supplied are sub-standard hence there is an issue of real physical verification. This came as the main reason for non-verification.</i>
Dist.- Barwani Block- Barwani (12-10-18)	Kalakhet	Indigenous variety cultivation by the tribal farmers	<ul style="list-style-type: none"> • Here, <i>Desi Jowar "Kantoli" (Duration-55-65 days) and desi maize (Sathi makka)</i> were grown by the tribal farmers. The team suggested to promote it.

District/Block	Village	Events organized/activity exhibited to NLMT	Observations/remarks
Dist.- Barwani Block- Barwani (12-10-18)	Ambapani	Meeting with the village Sarpanch and farmers to discuss about the progress of programme at village level	<ul style="list-style-type: none"> • SDAO Shri Mahesh Khanna briefed about the activities under NFSM implemented in the villages. Further, Shri P. S. Mandloi, RAEO and Shri Mingwal, SDO also attended. • They informed that the village-Ambapani is a forest village and aspirational village. • Here, the team met with Mrs. Jamuna Solanki (Mahila sarpanch, 8458849787) of Panchayat Ambapani including other 03 villages namely Amliya Pani, Anjamia Pani and Kanja Pani. • <i>She informed that these villages need road connectivity and water storage structure.</i> • <i>Farmers have also demanded the construction of pond to harvest rainwater in the rainy season. They have also requested for construction of stop dam or check dam.</i> • The team advised the farmer to grow high water efficient chickpea varieties like JG-21 and JG-11. • <i>The sarpanch also requested to extend the Kapil dhara benefits for wells (Rs. 2.11 lakh cost per unit i.e. 52' deep motor pump etc.) as previously 20 farmers have already applied for the benefit but this is held up owing to non-completion of earlier loop.</i> • Here, 20 NADEP were constructed during Ist phase of aspirational district programme.
Dist.-Indore (13-10-2018)	-	Visit to Seed hub- Pulses of College of Agriculture, Indore	<ul style="list-style-type: none"> • The officials informed that the amount of revolving fund balance Rs. 61 lakh received to the Seed hub Project, College of Agriculture- A/c No.- 18400110031988 joint holder-DDO (Mr. Ashok kr. Buday and Dr. Dushyant Bhagat) and So, far 1447 qtls of seed production was done against target of 1000qtls by the AICRP, Indore. • The KVK got the licence (licence no. 1736/11/10/2018) to produce and sale of seed. • Breeder seed of RVG-202 (20 qtls) and RVKG-101 (20 qtls) is already available. • <i>Infrastructure are likely to be completed by Dec., 2018, SPU is to be provided by SAU.</i>

District/Block	Village	Events organized/activity exhibited to NLMT	Observations/remarks
Dist.-Indore (13-10-2018)	-	Review of Seed hub, Ujjain	<ul style="list-style-type: none"> • 1200 qtls Chickpea foundation seed JAKI 9218 was produced during 2017-18 and 350 qtls already sold to DDA, Ujjain and remaining quantity shall also be sold. • 80 ha area has been proposed for gram (RVG-202) foundation seed production of 1000qtls(targeted) under 'Seed Gram Yojana' during Rabi 2018-19.The breeder seed of the gram was already available to the KVK. • Registration/licence/ MoU with DDA etc. have already been completed. The building of seed hub was completed and handed over to KVK. • Existing processing unit is being upgraded. The seed hub was completely functional. Repair will be completed by Dec 2018.
Dist.-Indore (13-10-2018)	-	Visit to wilt (<i>Fusarium</i> wilt) sick plot at AICRP Chickpea.	<ul style="list-style-type: none"> • The plot was inoculated with wilt causing agent before sowing of crop and the disease was accredited during 2010.
Dist.-Indore (13-10-2018)	-	Visit of IARI, Regional Centre, Indore	<ul style="list-style-type: none"> • A meeting was organized with Dr. S. V. Sai Prasad Head, IARI, Regional Centre, Indore. • He informed about the newly evolved <i>wheat varieties like -HI-1605 (Pusa ujala) for restricted irrigation in NEPZ , HI-1620 (Pusa Wheat 1620) RI-NWPZ, HI-8759 (Pusa Tejas) TS-CZ, HI-8777 (Pusa Wheat 8777), RI-PZ</i>. The NLMT recommended to popularized it.
Dist.-Dewas (13-10-2018)		Visit to seed hub at KVK, Dewas	<ul style="list-style-type: none"> • Construction of Godown under seed hub project has been completed and storage of soybean var. JS 9560 seed was done in proper manner. • Seed processing unit yet to be installed and the purchase of seed processing unit will be process at University level. • The officials informed that total funds Rs. 50 Lakh has been received under infrastructure development. Out of which the expenditure of Rs. 35.00 Lakh has been incurred & remaining Rs. 15.00 Lakh will be expend for purchase of processing unit.

District/Block	Village	Events organized/activity exhibited to NLMT	Observations/remarks
Dist.-Dewas (13-10-2018)		Visit to seed hub at KVK, Dewas	<ul style="list-style-type: none"> The amount of Rs. 87.00 Lakh under revolving fund of has been received and the remaining amount will be received shortly. The KVK already provide the seed of Urd (var. PU-1) to the farmer in Kharif 2018. Demonstration of Urd was organized in 19.4 ha likely to give production of 100qtls.

7.0 SUMMARY OBSERVATIONS

- 7.1 Monitoring/review of the NFSM, a centrally sponsored scheme (CSS) on crops development was done in consonance with the other CSSs viz. National Mission on Sustainable Agriculture (NMSA), National Mission on Agriculture Extension and Technology (NMAET) *subsuming the schemes of Sub- mission on Agricultural Mechanization (SMAM), Sub-mission on Seed and Planting Material (SMSP), Sub Mission on Agricultural Extension (SMAE)/ATMA, Sub Mission on Plant Protection and Plant Quarantine (SMPP), Rashtriya Krishi Vikas yojana (RKVY), Pradhan Mantri Krishi Sinchai Yojana (PMKSY), Paramparagat Krishi Vikas Yojana (PKVY), Soil Health Card (SHC), Pradhan Mantri Fasal Bima Yojana (PMFBY), National e-Governance Plan – Agriculture (Ne-GPA) and also the State-Plan agricultural development programmes* such as Surajdhara, Annapurna, Balram tal yojana, National Biogas, Nalkoop Khanan yojana (Minor Irrigation), MP Women in Agriculture (MAPWA), Soil testing and Soil health, IT based agricultural extension, Mukhya Mantri Khet teerth yojana, Quality Control and Testing labs (Fertilizers, seeds and pesticides), Pilot Project on Agricultural Climate Change, Kisan Mitra Prashikshan Yojana and State Micro-irrigation Mission etc in the districts.
- 7.2 The Narmadapuram (Harda) and Indore (Barwani, Khandwa and Khargaon) divisions were visited and considered as sample representatives of the state of MP to monitor the status of implementation of the centrally sponsored crops development programmes, the NFSM in particular.
- 7.3 The observations and inferences on status of implementation of NFSM interventions in the state have been drawn, keeping in view the sustained concurrent monitoring/field visits by the Directorate of Pulses Development (DPD) in other districts in the past, available development funds or capital/schemes/ interventions/ autonomy/flexibility /infrastructure and extension administration, including the existing manpower to support the extension activities etc.
- 7.4 The report, inter alia, incorporates the observations on the NFSM funded projects/programmes to Indian Council of Agricultural Research (ICAR-IIPR), Agriculture Technology Application Research Institute (ICAR-ATARI), Krishi Vigyan Kendra (KVKs), State Agricultural Universities (SAUs) such as *Seed Hubs, Additional Breeder Seed Production (ABSP), Cluster Frontline Demonstrations (CFLDs)* etc.

7.5 The observations have also been drawn on the existing status of *extension administration* at the field level, level of awareness amongst the extension functionaries, their perception about the programme, needed policy initiatives, equity criteria, adherence to the input cafeteria norms, innovative components, documentation of records/events and quality of demonstrations/follow up etc.

A. DEMONSTRATIONS AND CLUSTER DEMONSTRATIONS/EXTENSION ADMN.

- i) The Demonstrations held under NFSM scheme was demonstrated according to the crop cafeteria in all the districts. The crops like pigeonpea were at bud initiation stage and the crops like moong, maize, cotton, and groundnut were in good condition and some were harvested and some yet to harvested.
- ii) Rice crop was in good condition and now the farmer also grows the scented rice in village Bhanwra of Harda district. The fungal infection, stem rot and brown aphid infestation were also observed in the aromatic rice field. Here, the farmers also started growing gram var. - JG-15 and JG- 130 from last one year.
- iii) The Harda District officials informed that the Gypsum was not available in deptt. Whereas, the KVK scientist has informed that 2,000 soil samples were found highly rich in calcium. Hence, only soil test based Sulphur may be applied.
- iv) RH-406 mustard (Yield- 30qtls/ha) was demonstrated by KVK, Harda in village Lakha khedi and Billod. The KVK has also produced foundation seed of gram var.-JG-14 which recorded a yield of 37.50 qtls/ha and has proposed to produce seed of gram var.-JG-12 and JG-14.
- v) *Moong variety MH-421 response has not been good in Khandwa. While, During Kharif, it yielded 20 qtls/ha in Harda district. It is, therefore, recommended to use this variety during summer.*
- vi) The problem of wilt in gram came in view during visit to District Khandwa. So, the farmers have been advised to use RVKG-101 Kabuli gram varieties instead of double dollar. As, Double dollar is susceptible to wilt while Phule- G-5, Kripa, RVKG-101 and JGK-3 are tolerant to wilt.
- vii) The Pod fly and pod borer infestation was observed in the pigeonpea field in District Khargone, advised to spray Profenphos 50 EC @ 2ml/ltr of water at bud initiation and cypermethrin 25% EC @250-300ml/acre respectively.
- viii) The DDA of dist. Khargone requested to provide the subsidy in breeder seed production under horticulture crops (eg. Onion etc.).
- ix) The farmers of village Kalaket of district Barwani were grown desi varieties of jowar (Desi Jowar “Kantoli” (Duration-55-65 days)) and desi maize (Sathi makka). The team suggested to promote it.
- x) During review meeting with stake holders of dist. Barwani it came in view that the online pipes, drip/sprinklers being supplied are sub-standard hence there is an issue of real physical verification. This came as the main reason for non-verification.
- xi) During a meeting with head of IARI, Regional Centre, Indore, Dr. S. V. Sai Prasad informed about the newly evolved wheat varieties like –HI-1605 (Pusa ujala) for restricted irrigation in NEPZ , HI-1620 (Pusa Wheat 1620) RI-NWPZ, HI-8759 (Pusa Tejas) TS-CZ, HI-8777 (Pusa Wheat 8777), RI-PZ). The NLMT recommended to popularize it.

CLUSTER FRONT LINE DEMONSTRATIONS (CFLDs)

- Cluster FLD – Status under Oilseeds & Pulses during 2018-19 in the state of CFLDs/MP is given under (Table 1 & 2).

(TABLE – 1) CFLDs KHARIF-2018: ACHIEVEMENTS

Crop.	Varieties	Target Area (ha)	Achiv. Area (ha)	Financial (Rs. in Lakh)		KVKs Covered
				Target	Achiv.	
Pulses						
Pigeonpea	ICPL-88039, Pusa-992, TJT-501 and Rajiv Lochan	540	514	48.60		23
Greengram	IPM 2-14, TJM-3	60	60	5.40		03
Blackgram	Azad-3, IPU-94-1, Azad-1, Mash 479, Pratap urd 1, PU 40, PU-31, Sekhar 2, UH 1	430	380	38.70		19
Kha.Total		1030	954	92.70		
Oilseed						
Soybean	JS 95-60, JS 20-69, JS 20-29, JS 20-34 and RVS 2001-04	930	851	69.75	Not received	30
Groundnut	Girnar 2	20	20	2.4		02
Sesame	TKG 308 and TKG 55	110	80	5.5		06
Niger	JNC 6 and JNC 30	110	110	5.5		04
Kha.Total		1170	1061	83.15		

(TABLE- 2) CFLDS RABI -2018-19: TARGETS

Crop	Varieties	Area (ha)	Financial (Rs in Lakh)		KVKs Covered
			Target	Expenditure	
Pulses					
Chickpea	JG-63, JAKI-9218, JG-14, JG-11, JG-130, JG-16, Phule G-517, RVG-202	1200	-	Not Released	41
Fieldpea	Paras, Prakash, Vikas	40	-		03
Lentil	IPL-316, IPL-81, JL-03, Shekhar Masoor-3, RVL-31,	210	-		12
Total		1450	-		
Oilseed					
Mustard	RVM 2, NRCDR 2, RH 749, Pusa Bold, Pusa Jai kisan, PM27, Girraj IJ-31	520	31.20	Not Released	24
Sesame	TKG 55, TKG 306, JTS 8	30	1.5		3
Linseed	JLS 66, JLS 27, Kartika	320	16.00		15
Safflower	-	10	0.5		1
Rabi Total		880	49.20		

Note: Variety of Rabi season is tentative.

B. CROP SCENARIO

KHARIF

- i) In Madhya Pradesh, the S-W monsoon was activated on 16th June, 2018 against the normal arrival of *i.e.* June, 14th. The total seasonal rainfall received (22.06.2018 to 30.09.2018) was 875.40 mm which was 7 per cent less than the state's normal rainfall of 937.1 mm. The IMD data reveals 35 districts in normal, 07 districts in excess and 09 under deficit rainfall category.
- ii) The normal area under Kharif crops is 123.75 lakh hectares. Target of 131.96 lakh hectares was proposed for Kharif 2018, about 7 % more than normal. Total sowing have been reported about 135 Lha.
- iii) The first state's production forecast of Kharif-2018-19 is 249.65 lakh tons comprising 140.46 lakh tons Cereals with productivity level of 3464 kg/ha; 24.88 lakh tons Pulses with productivity level of 999 kg/ha; 165.35 lakh tons Food grains with productivity level of 2526 kg/ha; 73.25 lakh tons of oilseeds with productivity level of 1227kg/ha and 10.88 lakh tons Cotton with productivity level of 1590 kg/ha.
- iv) The total area under Cotton has been reported at 6.97 lakh ha with production estimates of 10.88 lakh tonnes. The area under BT cotton is about 98 % of total cotton area in the state. Only about 2 % area under Desi cotton (*var.* DCH-32), which is mainly concentrated to district of Jhabua & Alirajpur. The major kharif oilseeds *i.e.* Soybean which is 53.18 lakh ha, the production forecast is 67.31 lakh tons at the productivity level of 1285 kg/ha. Paddy, next to Soybean, grown in 21.65 lakh ha with estimated production of 80.43 lakh tons at productivity level of is 3715 kg/ha. Urd is third important kharif crop which is grown in 16.52 lakh ha, expected production is 17.25 lakh tons with productivity level of 1044 kg/ha.
- v) The kharif crop performance during 2017 and 2018 targets and achievement *vis-à-vis* percentage increase/ decrease over target are given under (*Table-3 and Table 4*).

(TABLE – 3) KHARIF-2017: TARGET/ACHIEVEMENT*(A-lakh ha, P-lakh tons, Y-kg/ha)*

S.No	CROPS	Target			Achievement			% Increase/Decrease over Target		
		Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield
1	Rice	21.42	68.41	3194	20.23	73.05	3611	-6	7	13
2	Sorghum	2.42	5.40	2231	2.70	6.53	2419	12	21	8
3	Bajra	2.42	5.41	2236	3.10	7.55	2435	28	40	9
4	Maize	12.21	33.48	2742	13.17	46.80	3554	8	40	30
5	Kodo kutki & Others (SM & Ragi)	2.09	1.37	656	1.44	1.41	979	-31	3	49
6	Arhar	8.22	9.44	1148	6.47	8.39	1297	-21	-11	13
7	Urdbean	11.28	6.75	598	17.89	17.44	975	59	158	63
8	Mungbean	2.79	1.59	570	2.28	1.37	601	-18	-14	5
9	kulthi	0.19	0.09	474	0.14	0.06	429	-26	-33	-10
10	Other Pulses	0.33	0.13	394	0.02	0.01	500	-94	-92	27
11	Soybean	55.48	69.00	1244	50.10	58.72	1172	-10	-15	-6
12	Groundnut	2.54	4.59	1807	2.18	3.38	1550	-14	-26	-14
13	Sesame	4.31	2.50	580	4.24	1.87	441	-2	-25	-24
14	Niger	0.63	0.27	429	0.61	0.21	344	-3	-22	-20
15	Other Oilseeds	0.33	0.25	758	0.10	0.06	600	-70	-76	-21
16	Cotton	5.79	12.81	376	6.03	9.53	269	4	-26	-29
	Total Cereals	40.56	114.07	2812	40.64	135.35	3330	0	19	18
	Total Pulses	22.81	18.00	789	26.80	27.27	1018	17	52	29
	Total Food grain	63.37	132.07	2084	67.44	162.61	2411	6	23	16
	Total Oilseeds	63.30	76.61	1210	57.23	58.72	1026	-10	-23	-15
	Total All Crops	132.46	221.49	1672	130.78	230.97	1766	-1	4	6

Source- State Deptt. of Agriculture, Govt. of MP. 4th advance estimate of Kharif 2017

(TABLE- 4) KHARIF – 2018: TARGET/ACHIEVEMENT*(A-lakh ha, P-lakh tons, Y-kg/ha)*

S.No	CROPS	Target			Achievement			% Increase/Decrease over Target		
		Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield
1	Rice	22.50	88.65	3940	21.65	80.43	3715	-4	-9	-6
2	Sorghum	2.75	7.10	2582	1.38	3.41	2471	-50	-52	-4
3	Bajra	3.15	-	-	2.56	6.29	2457	-19	-	-
4	Maize	13.50	49.76	3686	13.61	49.25	3619	1	-1	-2
5	Arhar	7.10	-	-	6.35	6.33	997	-11	-	-
6	Urdbean	18.10	-	-	16.52	17.25	1044	-9	-	-
7	Mungbean	2.50	-	-	1.91	1.24	649	-24	-	-
8	Soybean	46.05	-	-	52.38	67.31	1285	14	-	-
9	Groundnut	2.60	-	-	2.35	3.69	1570	-10	-	-
10	Cotton	6.28	11.03	299	6.84	10.88	1591	9	-1	433
	Total Cereals	43.70	150.00	3432	40.55	140.46	3464	-7	-6	1
	Total Pulses	28.05	30.15	1075	24.91	24.88	999	-11	-17	-7
	Total Foodgrain	71.75	180.15	2511	65.46	165.34	2526	-9	-8	1
	Total Oilseeds	53.93	75.07	1392	59.68	73.25	1227	11	-2	-12
	Total All Crops	131.96	266.25	2018	132.10	249.65	1890	0	-6	-6

*Source- State Deptt. of Agriculture, Govt. of MP. 1st advance estimate of Kharif 2018***RABI**

i) During 2017-18, the area under Rabi crop was 115.07 lakh ha. The crop-wise target and per cent achievement vis-à-vis percentage deviation over target is given in (Table-5).

(TABLE-5) RABI-2017-18: TARGET/ACHIEVEMENT*(A-lakh ha, P-lakh tons, Y-kg/ha)*

S.No	CROPS	Target			Achievement			% Increase/Decrease over Target		
		Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield
1	Wheat	64.78	218.15	3368	58.03	200.20	3450	-10	-8	2
2	Barley & other	0.90	1.69	1878	1.34	4.34	3239	49	157	72
3	Gram	32.74	39.42	1204	35.90	53.85	1500	10	37	25
4	Lentil	6.20	5.39	869	5.96	6.79	1139	-4	26	31
5	Peas	5.40	6.18	1144	3.12	3.22	1032	-42	-48	-10
6	Other Pulses	0.45	0.36	800	0.61	0.56	918	36	56	15
7	R&M	6.65	8.10	1218	7.48	9.76	1305	12	20	7
8	Linseed & other	1.73	1.20	694	1.65	0.89	539	-5	-26	-22
9	Sugarcane	1.34	8.10	6045	0.98	5.43	5541	-27	-33	-8
	Total Cereals	65.68	219.84	3347	59.37	204.54	3445	-10	-7	3
	Total Pulses	44.79	51.35	1146	45.59	64.42	1413	2	25	23
	Total Food grain	110.47	271.19	2455	104.96	268.95	2562	-5	-1	4
	Total Oilseeds	8.38	9.30	1110	9.13	10.64	1165	9	14	5
	Total Crops	120.19	288.58	2401	115.07	285.02	2477	-4	-1	3

Source- State Deptt. of Agriculture, Govt. of MP. 3rd advance estimate of Kharif 2017

ii) The Rabi targets during 2018-19 has been kept at 125.20 lakh ha, which is 5 lakh ha higher than the previous year (Table- 6).

(TABLE 6) RABI: CROP-WISE AREA AND TARGETS

Area (lakh ha)

S.No	Crops	Normal		Target 2017-18	Target 2018-19
		AI	MP		
1	Wheat	306.29	57.24	64.78	65.40
2	Barley	6.64	0.94	0.90	0.85
3	Gram	89.45	30.76	32.74	36.50
4	Lentil	13.94	5.58	6.20	6.00
5	Peas	9.33	3.72	5.40	5.00
6	Other Pulses*	10.38	0.24	0.45	0.5
7	Rapeseed/Mustard	61.25	7.17	6.65	8.00
8	Linseed & other oilseed**	8.22	1.68	1.73	1.90
10	Sugarcane	48.84	0.88	1.34	1.05
A	Total Cereals	408.44	58.28	65.68	66.25
B	Total Pulses	140.84	41.86	44.79	48.00
C	Total Foodgrain	549.29	100.14	110.47	114.25
D	Total Oilseeds	77.32	8.45	8.38	9.90
E	Total Crops	626.61	108.59	120.19	125.20
*Other pulses includes horsegram lathyrus, popat , barbati and other pulse.					
** Other oilseed includes safflower and sunflower.					

Source –State Deptt. of Agriculture, Govt. of MP. (Normal- DES Ave. 2012-13- 2016-17)

NFSM: FINANCIAL PROGRESS

- i) During 2017-18, the Financial Achievement under NFSM and Other Centrally Sponsored Schemes along with percentage utilization is given under (Table-8).

(TABLE- 8) NFSM/ OTHER CSS – 2017-18: ALLOCATION/ EXPENDITURE
Upto March, 2018

(Rs. In lakh)

Scheme	Allocation		Total	Release (CS)	Revali	Total Avail. Funds	Expenditure			% Utili. (CS)
	Central	State					Central	State	Total	
NFSM										
Pulses	23199.79	15466.53	38666.32	0	15298.7	15298.7	7134.26	4756.17	11,89043	47
Addl. Pulses	10380	6920	17300	10380	10380	10380	1992.62	1328.42	3321.04	19
Total Pulses	33579.79	22386.53	55966.32	10380.00	25678.70	25678.70	9126.88	6084.59	15211.47	36
Paddy	1076.09	717.40	1793.49	0	659.63	659.63	300.24	200.16	500.4	46
Wheat	2139.48	1426.32	3565.80	0	882.91	882.91	778.41	518.94	1297.35	88
Coarse Cereals	853.20	568.80	1422.00	0	419.11	419.11	250.93	137.28	343.21	60
Cotton	60.00	40.00	100.00	0	0	0	1.43	0.95	2.38	-
Sugarcane	19.78	13.18	32.96	0	0	0	4.73	3.16	7.89	-
NFSM Total	37728.34	25152.23	62880.57	10380.00	17260.35	27640.35	10462.62	6945.08	17362.7	38

(TABLE- 8) NFSM/ OTHER CSS – 2017-18: ALLOCATION/ EXPENDITURE

contd..

(Rs. In lakh)

Scheme	Allocation		Total	Release (CS)	Revali	Total Avail. Funds	Expenditure			% Utili. (CS)
	Central	State					Central	State	Total	Aval.
NMOOP (MM-I)	6002.96	4001.97	10004.93	496.58	2359.18	2855.76	1430.43	953.62	2384.05	38
RKVY	16749.00	11166.00	27914.99	5781.67	4505.33	10287.00	11770.70	7847.14	19617.84	114
NMSA										
NMSA (RAD)	813.43	542.28	1355.71	400.00	401.51	801.51	380.08	253.39	633.47	47
SHM	3080.77	2053.84	5134.61	0.00	3642.00	3642.00	22.90	15.26	38.16	1
SHC	4507.76	3003.18	7507.94	2464.47	607.91	3072.38	2716.93	1811.29	4528.22	88
PKVY	1514.03	1009.36	2523.39	1070.71	0.00	1070.71	1070.71	713.81	1784.52	100
NMAET										
SAME-ATMA	4861.82	3241.22	8103.04	3040.92	571.28	3612.20	3549.31	2366.21	5915.52	98
SMSP	1200.00	800	2000.00	1543.53	1360.48	2904.01	2182.77	1455.18	3637.95	75
PMKSY	3565.40	2376.94	5942.34	-	3032.55	3032.55	1720.67	1147.12	2867.79	57
OFWM	3755.56	2503.70	6259.26	3750.00	481.08	4231.08	1346.24	897.49	2243.73	32
Total above	83779.07	55850.72	139626.78	28927.88	34222.38	63150.26	36653.37	24405.58	61013.95	58

Source: NFSM Allocation and Release CA-V; Outlay 2017-18

ii) During the year under report (2018-19) Allocation under NFSM and Other Centrally Sponsored Schemes in the state of MP, incl. the Expenditure along with percentage utilization uptill Sept., 2018 is presented in Table-9.

(TABLE-9) NFSM/OTHER CSS – 2018-19: ALLOCATION/ EXPENDITURE (Upto Sept, 2018)
(Rs. In lakh)

Scheme	Allocation		Total	Release (CS)	Revali	Total Avail. Funds	Expenditure			% Utili. (CS)
	Central	State					Central	State	Total	Aval.
NFSM										
Pulses	16717.40	11144.94	27862.34	0.00	16717.40	16717.40	2600.08	1733.38	4333.46	16
Paddy	912.04	608.02	1520.06	0.00	541.27	541.27	98.88	65.92	164.80	18
Wheat*	1969.76	1313.17	3282.93	0.00	1385.41	1385.41	109.00	72.67	181.67	8
Coarse Cereals	611.50	407.66	1019.16	0.00	381.51	381.51	158.45	105.63	264.08	42
Nutri-Cereals	675.18	450.12	1125.30	506.38	0.00	506.38	35.96	23.97	59.93	7
Cotton	30.75	20.50	51.25	0.00	73.50	73.50	0.00	0.00	0.00	0
Sugarcane	73.50	49.00	122.50	19.59	1.04	20.63	2.70	1.80	4.50	13
NFSM-OS	3050.01	2033.34	5083.35	0.00	1426.54	1426.54	183.34	122.22	305.56	13
NFSM TOTAL	24040.13	16026.75	40066.88	525.97	20526.67	21052.64	3188.40	2125.60	5313.99	15

(TABLE-9) NFSM/OTHER CSS – 2018-19: ALLOCATION/ EXPENDITURE contd.**(Rs. In lakh)**

Scheme	Allocation		Total	Release (CS)	Revali	Total Avail. Funds	Expenditure			% Utili. (CS)
	Central	State					Central	State	Total	
RKVY	17697.04	11798.03	29495.07	4514.90	3138.76	7653.66	4115.92	2743.95	6859.87	54
SHC	2383.83	1589.22	3973.05	560.44	2097.56	2658.00	921.33	614.22	1535.55	35
PKVY	1851.16	1234.11	3085.27	2471.97	1813.94	4285.91	0.00	0.00	0.00	0
SMAE – ATMA	3490.02	2326.68	5816.70	1984.93	0.00	1984.93	2064.93	1376.62	3441.55	104
SMSP	3121.51	2081.00	5202.51	1499.88	1233.84	2733.72	536.29	357.53	893.82	20
NMSA-RAD	807.76	538.50	1346.26	0.00	300.74	300.74	27.33	18.22	45.55	9
TOTAL ABOVE	53391.45	35594.30	88985.74	11558.09	29111.51	40669.60	10854.20	7236.13	18090.33	27

Source: NFSM Allocation and Release CA-V; Outlay 2018-19

PHYSICAL PROGRESS**i) NFSM-2017- 18**

The Physical achievements during 2017-18 under NFSM (Pulses, Rice, Wheat and Coarse Cereals) towards critical interventions are indicated below (Table-10).

(TABLE -10) NFSM PHYSICAL PROGRESS – 2017-18**(upto March 2018)**

Component	Pulses (51)			Rice (08)			Wheat (16)			C. Cereals (16)		
	T	A	%	T	A	%	T	A	%	T	A	%
Demo. (ha)	153000	129117	84	8300	7610	92	18485	18706	101	21000	16306	78
Prod. & dist. of Seeds (Qtls)	492000	80255.36	16	7980	850	11	75105	14918	20	9540	882	9
INM (ha)	542800	20456.9	4	26000	5	0.02	71730	4683	7	-	-	-
PPM (ha)	675165	42623.56	6	25588	7	0.03	34602	5825	17	-	-	-
RCT	37487	25500	68	7987	7935	99	6770	0	0	-	-	-
CSBT (Nos)	2050	1582	77	125	104	83	225	157	70	-	-	-
Local Initiatives	-	-	-	255	255	100	235	0	0	-	-	-

T: Target, A: Achievement; Figures in parenthesis are nos. of districts

ii) NFSM- 2018-19

The Physical achievements during 2018-19 under NFSM (Pulses, Rice, Wheat, Coarse Cereals and Nutri-cereal) towards critical interventions are indicated below (Table-11).

(TABLE-11) NFSM PHYSICAL PROGRESS – 2018-19**(upto Sept. 2018)**

Component	Pulses (51)			Rice (08)			Wheat (16)			C. Cereals (22)			Nutri-cereals (24)		
	T	A	%	T	A	%	T	A	%	T	A	%	T	A	%
Demo. (ha)	115500	79028	68	7434	6185	83	17900	0	0	11900	10512	88	7500	4520	60
Prod. & dist. of seeds (Qtls)	187450	17650	9	7900	2	0	42434	357.2	1	3800.6	473	12	12429	40	0.32
RCT (Nos.)	19673	13081	66	5610	71	1	20617	134	1						
CSBT	2050	1334	65	125	70	56	230	88	38				185	75	41

T: Target, A: Achievement; Figures in parenthesis are nos. of districts

C. SEED HUB PROGRAMME AND EBSP

There are total 23 seed hubs in Madhya Pradesh for seed production of different crops (Pulses seed hub-16; Oilseeds seed hub-05; Millet seed hub-02) and 3EBSP (Enhancing Breeder Seed Production Programme) for pulses (03) and millet (02) seed production. The target and achievement in seed production of pulses and millet during 2017-18 & 2018-19 under Seed hub programme and EBSP in MP is presented in Table 12.

Table12. Target and achievement in seed production of pulses and millet during 2017-18 & 2018-19

(Qty : in Qtls)

Crop	Seed hub			EBSP	
	2017-18		2018-19	2018-19	
	Target	Achievement	Target	Target	Expected Achievement
Pigeonpea	2300	1052	2090	62	85
Black gram	2084	1259	2880	-	-
Green gram	530	268	300	15	20
Chickpea	7473	10046	9300	425	520
Lentil	300	210	100	93	46
Pea	300	64	400	15	10
Black gram (S)	-	-	150	25	24
Green gram (S)	1550	360	1800	60	47
Kulthi	-	-	-	-	-
Lathyrus	-	-	-	-	-
Millet	-	-	210	55	-
Total	14537	13259	17230	750	752

8. SUGGESTIONS/RECOMMENDATION

- Cluster demonstrations norms @100 ha per cluster have been requested to be reduced due to non availability of single cluster for a particular crop. In view of the field observations, the NLMT recommends to organize cluster from 0.4 to 2 ha.
- The DBT clause may be relaxed for cluster demonstrations so as to ensure the proper technology transfer of the recommended package. It is observed that only seed is being provided as a part of the input cafeteria because it is not possible for the NFSM beneficiaries to purchase the seed treating chemical or other inputs directly and to submit the bills for reimbursement. Further accessibility to the input dealer for timely purchase of kit/cafeteria and also the nearby banking facilities in backward region, is the major bottle neck. Further many resource poor farmers fail to receive the subsidy amount owing to un operational/faulty accounts in their names.

The NLMT, therefore, suggest that the State Dept. of Agriculture (SDA) should make institutional arrangement for timely supply of inputs for cluster demonstrations, so that a complete full package demonstration, as envisaged in the scheme, is conducted. Also in the absence of complete input package the sole purpose of a full package cluster demonstration is defeated.

- In general the availability of quality seeds of the varieties within 10 years of notifications for cluster demonstrations is not available in sufficient quantities. However, under the district mission of certified seed varieties within 15 years are permitted.

The NLMT views logic to field functionaries' suggestions/demand to consider/allow the varieties within 15 years of notifications, both for demonstration as well as distribution of seed. The issue may be discussed at the level of NFSMEC/SFSMEC.

- Disparity in the rates of seeds among NSC, SSC, NAFED, HIL as also the higher rates of the agencies than the rates fixed by MP state is a major practical obstacle in implementation of distribution of *seed components* in NFSM, RKVY, Beej Gram Yojana etc.

The NLMT suggests to work out a mechanism to bring about the uniformity in the rates so as, to implement the scheme/component in hassle free manner.

- The *implements/machineries (RCT)/water application tools* components are implemented online. Presently, the physical and financial targets are allocated district wise which debar the farmers of backward blocks/remote villages. It is learnt that only few blocks are getting the benefits of this component due to proper information and access to registration.

It is therefore suggested that for equitable benefits, the target distribution under RCT/machineries should be block wise instead of district wise. Similarly after the procurement of the implements the farmer share, through dealer or farmer, should be deposited through RTGS/NEFT/e-Payment, restricting the payment through DD.

- The irrigation implements/machineries (Drip, Sprinkler, Rain gun, Motor pump, Pipes) are being implemented/verified by District Agriculture Dept. (verification by SADO within week) while the other power driven implements/machineries are distributed by Directorate of Engineering. An information gap between the *Engineering Dept. and District Agriculture Dept.* has been noticed by the NLMT. The District Agriculture Dept. is kept ignorant of the district targets under power driven implements. Finally this type of working in silos give a set back to the district planning for *Rabi and Kharif*.

It is suggested that the DDA must be kept informed of the power driven RCT targets by the NFSM- Mission Director (The Dte. of Engg.). Further in the process of verification of the irrigation machineries, the SADO be made accountable directly and the period of verification should be extended up to 20 days. It is observed that after the expiry of 07 days, the verification process immediately transfer to DDA, which is automatically delays the disbursement of subsidy.

- The extent of implementation of RCT/Machineries and its documentation with regard to precision agriculture/increase in mechanization etc. is not being maintained at the level of DDA under all CSS with the introduction of online system and dispensation of this component at the level of Directorate of Engineering. The Engineering Dept. is poorly strengthened with almost 01 Sub-Engineer/AE or other representative per 02-03 districts, moreover they do not share the list of machineries distributed to the DDAs.

The NLMT, therefore, strongly recommend that the Engineering dept. should be directed to feed online information to all 52 DDAs about distribution of RCTs under all the CSS.

- The existing online RCT application software also needs a modification to capture the small, marginal and large farmers separately under irrigation components. Presently after the completion of targets under SMF category, it directly goes in the category of the large farmer thereby; the SMF gets less subsidy due to technical problem with the software.

- In RKVY, holistic farming component, the subsidy is provided only after the implementation of 06 components. It is observed that only 02-03 components are only completed while Fisheries, Duckeries and Poultry activities are generally incomplete.

The NLMT, therefore, suggest that the RKVY- holistic farming should have flexibility with the beneficiaries to choose Lac cultivation , bee keeping or any other local initiative to achieve the targeted outcome.

- The subsidy towards drip and sprinkler set may be provided on *pro rata basis* so that the poor and marginal farmers can also get the benefit of this component.
- The Govt. of MP is advised to make use of *flexi fund* under some of the innovative component specially the community fencing etc. in order to sustain spring summer pulses.
- Zero tillage, Rotavator, Sprinkler/Drip Irrigation, Happy Seeder, Demonstration of Salt tolerant varieties interventions, FLDs and CFLDs results across the states showed appreciable yield advantage.
- Display board have to be erected in CFLDs and FLDs demo. Plot.
- Climate smart technologies and precision farming practices have to be encouraged for cotton.
- The NFSM Pulses is implemented in all the districts, including the low area low productivity districts. In such regions, the higher coverage vis-a-viz production as an outcome of NFSM is a major challenge in terms of market. Suitable marketing strategy/procurement, in consultation with the APMC/NAFED may be developed by the DDA to ensure sustainability of the pulse production.
- In MP, *the seed distribution* components of NFSM are implemented by PACS. It is learnt that these societies do not store sufficient quantities of pulses seed.
- The poor utilization of funds may also be attributed to comparatively much less per ha distribution subsidy in wheat, gram, pea, lentil, mustard, linseed, barley, summer moong, etc. as given under Annexure IV.

VISIT PHOTOGRAPHS

District- Harda



Drip supported Ridge furrow planted Arhar



Visit to Seed hub at KVK, Harda

District- Harda



NLMT visited APEDA accredited Organic Farm in vill.-Sontalai,
Block- Harda

भारत सरकार के दल ने किया निरीक्षण

पत्रिका न्यूज़ नेटवर्क
patrika.com

टिम्पनी, मंगलवार को दलहन निदेशालय भारत सरकार से आए डॉ एके तिवारी दलहन निदेशक एवं सीहोर कृषि कॉलेज से डॉ. एएन टिकले पौध प्रजनन एवं विभाग प्रमुख द्वारा ग्राम भवरास के सुखपाल सिंह राजपूत की धान फसल का निरीक्षण किया गया। इस दौरान दल के सदस्यों ने किसानों को सलाह भी दी। संयुक्त संचालक बीएल बिलैया, उपसंचालक एमपीएस चंद्रावत, सहायक संचालक देवी सिंह वमाज संदीप यादव अखिलेश पटेल आदि



मौजूद रहे। कृषि विस्तार अधिकारी राजेन्द्र सिंह राजपूत ने बताया कि विकासखंड के ग्राम बाजार चारखेडा भवरास में आई टीम द्वारा किसानों को दलहन के उत्पादन बढ़ाने की सलाह दी गई।

दलहन निदेशक ने सोनतलाई में 80 एकड़ में जैविक खेती का किया अवलोकन

भवरास में धान फसल भी देखी, जैविक खेती को बढ़ावा देने की कवायद की

भा. संवाददाता/कारकिया/करताना

जैविक खेती के बारे में जानकारी मिल सके। इसके अलावा भवरास के किसान सुखपाल सिंह राजपूत की धान फसल का अवलोकन किया। निदेशक श्री तिवारी, सीहोर कृषि महाविद्यालय से डॉ. एएन टिकले ने विभिन्न तकनीकी जानकारी दी। संयुक्त संचालक बीएल बिलैया, उपसंचालक एमपीएस चंद्रावत, सहायक संचालक देवी सिंह वर्मा, संदीप यादव, अखिलेश पटेल आदि जाणा, ताकि अन्य किसानों को

एस्के तिवारी ने मौसम की अनुकूलता के आधार पर रबी फसलों का चुनाव, किस्मों के गुणों के आधार पर चुनाव का समय निश्चित करने की सलाह दी। विभिन्न फसलों के रकवे को बढ़ाना एवं दलहन उत्पादन को अधिक करने के उद्देश्य इस प्रकार की सलाह दलहन निदेशक ने किसानों को दी। इस दौरान डॉ. श्रीचंद जाट, बीटीएम राजेंद्र सिंह राजपूत, एसएडीओ एस्के शक्ते, किसान रामभरोस राजपूत, रामाश्रय जयसिंह मौर्य आदि उपस्थित थे।

Newspaper Publication about the visit of NLMT in Dist.-Harda

District- Khandwa



NLMT meeting with KVK officials related to NFSM implementation at KVK, Khandwa



Scientists Advisory Samiti Meeting at KVK, Khandwa

District- Khandwa



Meeting with beneficiaries of cluster demonstration of moong under NFSM at Vill.-Jaswadi



Visit farmer own prepared jeevpamrit unit at vill.-Kalapat, Block-Pandhana



Visit to farmer goshala at vill.-Kalapat, Block-Pandhana

District- Khandwa



Shed net provided under NFSM 2017-18 to the farmers Smt. Pushpabai Shri and Atma ram Patel at vill.-Khandwa Piplod



Team discussed about the protected cultivation with the farmers



Capsicum crop at fruiting stage in shed net

District- Khandwa



Visit to Goshala at dist.-Khandwa



Visit to vermicompost unit



Watermelon cultivation using mulch



Intercropping of guava and soybean

District- Khandwa



Cotton crop in farmer field



Guava field supported by drip irrigation



Visit to seed hub at Khandwa

District -Khargone



A review meeting for Discussion about the NFSM implementation with district official at zonal agriculture research centre, Khargone



Under constructed building of godown under seed hub programme at KVK Khargone

District- Khargone



Visit to KVK, Khargone, orchard of Amla (var. N.A.-7)



Experimental field of arhar at plant breeding division of KVK, Khargone

District- Khargone



Team visited the green house at KVK, Khargone and investigate the tomato condition cultivated there



Team investigating the lemon plantation at KVK , Khargone



NLMT investigating the guava plantation at KVK , Khargone

District- Khargone



Team investigating the crop condition of Arhar cultivated on the field of farmer Shri Balram and Shri Girdhari under NFSM CBSD at vill.-Rajpura, Distt.-Khargone



Team investigating Sandalwood plant cultivated by farmer Shri Chandan at vill.-Nagjhiri, Block-Gogaon, Distt.-Khargone

District- Khargone



Team discuss with farmer Shri Abinash singh dangi about the organic farming and the indigenous varieties performance at vill.-Bistan, Block- Gogaon



Team visited the orchard of farmer Shri Kamal at vill.- Dalka, cultivated Apple ber in 1.5 acre

District- Khargone



Team visited the orchard of farmer Shri Kamal at vill.- Dalka, cultivated guava in 4 acre



A meeting with the beneficiaries (Shri Ganga ram, Shri Chain singh and Shri Kashi ram) under NFSM CSBD of Maize at vill.-Talakupura

District- Barwani



Under RKVY, Govt. Veterinary polyclinic constructed at Distt.-Barwani



Visit of cotton field –farmer practice

District- Barwani



Groundnut threshing done by tribal women at Village-Amba Pani, distt.- Barwani



Meeting with the Sarpanch and farmers at village panchayat, Ambapani

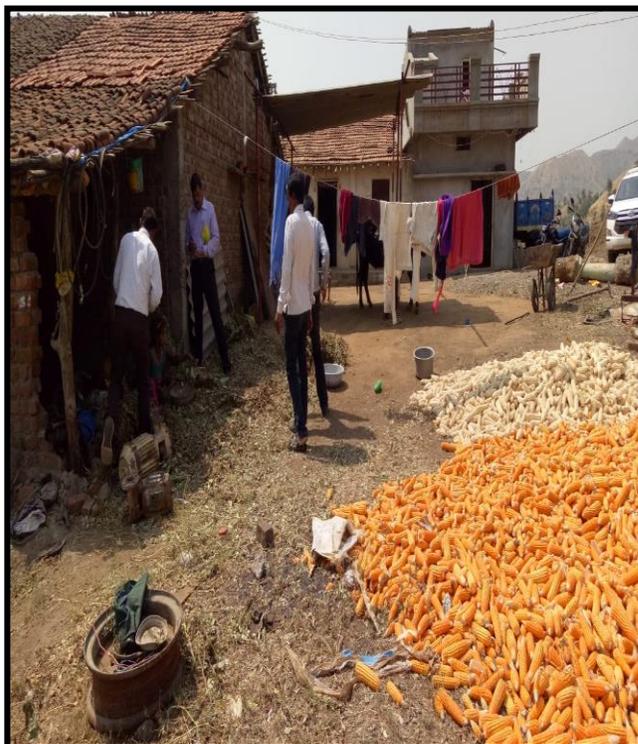


Discussion with farmer about the problem in village- Ambapani

District- Barwani



Team visit a processing unit at Distt.-Barwani



Sun drying of harvested hybrid maize to keep moisture level for storage of seed



Rain water harvesting structure



Chilli cultivation

District- Barwani



RKVY onion storage godown in Barwani

KVK- Indore



Field prepare for seed production of chickpea at KVK , Indore

KVK- Indore



Team visited the under constructed building of godown under seed hub programme at KVK, Indore

KVK- Dewas



Field of Chickpea seed production under seed hub programme Rabi 2017-18 at KVK,Dewas

KVK- Dewas



Newly constructed Seed storage godown under Seed hub programme at KVK, Dewas



Field view of Urd (Pratap Urd-1) seed production at farmer (Shri Manmohan Dhut) field under Seed hub programme Kharif ,2018-19



Field view of Urd (Pratap Urd-1) seed production at farmer field (Shri under Seed hub programme Kharif ,2018-19

मध्यप्रदेश राज्य बीज प्रमाणीकरण संस्था
ऑफिस कॉम्प्लेक्स, गौतमनगर, भोपाल



पंजी. क्र. 24172

दिनांक 21/6/18

उत्पादक संस्था पंजीयन प्रमाण-पत्र

मेसर्स/कंपनी कृषि विज्ञान केंद्र, देवास स्थान कृषि विज्ञान केंद्र, बालगढ़ फार्म देवास जिला देवास को दिनांक 31/03/2019 तक निम्नलिखित शर्तों के अधीन पंजीयन किया गया है। यह पंजीयन दिनांक 31/03/2019 तक वैध रहेगा।

शर्तें :-

1. आवेदन में दी गई जानकारी अत्यंत पाई जाने पर पंजीयन निरस्त कर दिया जावेगा।
2. उत्पादक संस्था/कंपनी के कारोबार अथवा बीज प्रक्रिया संबंधी किसी भी प्रकार की अनिश्चितता पाये जाने पर पंजीयन निरस्त कर दिया जावेगा।
3. पंजीयन प्रति वर्ष 31 मार्च तक के लिये वैध होगा। इसके बाद पंजीयन हेतु नवीनीकरण शुल्क दिनांक 15 मार्च तक रुपये 1000/- सम्भावीय कार्यालय में आवेदन के साथ जमा करने की स्थिति में ही नवीनीकरण हेतु विचारधर्म स्वीकार किया जा सकेगा। निर्धारित तिथि तक आवेदन मच नवीनीकरण शुल्क प्राप्त न होने की स्थिति में नवीन प्रकरण माना जाकर प्रस्ताव मान्य किया जा सकेगा।


प्रबंध संचालक


(प्रारूप-ख)
(खण्ड ६, देखिये)

बीज के व्यवहारी कारोबार करने की अनुमति।

अनुमति संख्या: 11.3.7..... तारीख: 14/02/2018

बीज निर्यात आदेश, १९८३ के उपबंधों और इस अनुमति के निबंधनों और शर्तों के अधीन श्री/श्रीमती: कृषि विज्ञान केंद्र, देवास

को बीजों से उक्त प्रयोजन के लिए विक्रय, निर्यात, आयात और भण्डारण करने के लिये अनुमति दी जाती है।

अनुमति धारक: कृषि विज्ञान केंद्र, देवास में भण्डारण के स्थान और विक्रय का स्थान: कृषि विज्ञान केंद्र, देवास जिला देवास में उपरोक्त कारोबार करेगा।

तहसील: देवास जिला देवास में उपरोक्त कारोबार करेगा।

तारीख:

अनुमति अधिकारी
Dy. Director of Agriculture,
Registration Authority
Dist. - Dewas (M.P.)

अ.क्र.	उत्पादक संस्था/कंपनी का नाम	स्थान	अवधि
1	कृषि विज्ञान केंद्र देवास / देवास		

मोहर
अनुमति के निबंधन और शर्तें :-

1. अनुमति कारोबार परिसरों के किसी भाग में किसी प्रमुख और सहज दृश्य स्थान पर जो आम जनता के लिए खुला रहेगा, संप्रदर्शित की जाएगी।
2. अनुमति धारक बीज/निर्यात/आदेश, १९८३ के और उसे अधीन जारी की गई तत्समय प्रयुक्त अधिसूचना के उपबंधनों का अनुपालन करेगा।
3. यह अनुमति तुरंत प्रभावी होगी और दिनांक 13/02/2018 तक वैध होगी तब जब तक कि इसे पहले ही रद्द या निलम्बित नहीं कर दिया जाता है।
4. अनुमति को धारक समय-समय पर अनुमति प्राधिकारी को ऐसी परिसरों में किसी परिवर्तन की रिपोर्ट देना जहाँ वह बीजों के उक्त प्रयोजन के लिए विक्रय, निर्यात, आयात का भण्डारण का कारोबार करता है।
5. अनुमति बीजों के भण्डारण, विक्रय या निर्यात के प्रयोजन के लिए अपने द्वारा प्रयुक्त किसी युक्तन, डिब्बा या पोद्दास, या अन्य स्थान/स्थानों में उसके स्टॉक का निरीक्षण करने के प्रयोजन के लिए अनुमति प्राधिकारी या उसके प्राधिकार के अधीन कार्य करने वाले किसी अन्य अधिकारी को हर सुविधा प्रदान करेगा।

Dist. - Dewas (M.P.)

Certificate issued to the KVK, Dewas by Madhya Pradesh Seed certification Agency for production and marketing of certified seed

Annexure-I

PHYSICAL AND FINANCIAL PROGRESS DURING 2018-19

State: MADHYA PRADESH

NFSM-RICE 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Sept., 2018)

(Financial: Rs. In Lakh)

S. No.	Intervention	Approved rate of Assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
1	*Cluster Demonstrations by State Department of Agriculture with the technical backstopping of ICAR/SAUs/IRRI (One Cluster of 100 ha)						
	(a) Direct seeded Rice/Line Transplanting/SRI (Target 1.5% of area of District)						
	(i) Cluster Demonstrations on Direct seeded rice	Rs.9000/ha.	ha	534	48.06	300	7.47
	(ii) Cluster Demonstrations on Line transplanting	Rs.9000/ha.	ha	1200	108.00	1000	16.74
	(iii) Cluster Demonstrations on SRI	Rs.9000/ha.	ha	1400	126.00	1200	22.22
	(b) Cluster Demonstrations on Hybrid Rice (One cluster of 100 ha)	Rs.9000/ha	ha	1000	90.00	1000	11.18
	(c) Demonstration on Stress tolerant varieties of 100 ha.each (30% of the total financial allocation of demonstration)	Rs.9000/ha	ha	1800	162.00	1550	39.63
	(d) Cropping System based demonstrations (30% of the total financial allocation of demonstration) cropping sequence to be specified					0	0.00
	(i) Rice-Gram	Rs.15000/ha	ha	700	105.00	555	12.68
	(ii) Rice-Lentil	Rs.15000/ha	ha	300	45.00	230	5.02
	(iii) Rice-Wheat	Rs.15000/ha	ha	500	75.00	350	5.08
	Sub total			7434	759.06	6185	120.02
2	Seed Distribution:						
	(a) Hybrid Rice Seed	Rs.10000/qtl or 50% of cost whichever is less	Qtl	2860	286.00	0	0.00
	(b) HYVs Seeds of Rce (for varieties older than 10 year) Limited to 20 percent of total seed distribution target	Rs.1000/qtl or 50% of cost whichever is less	Qtl	1680	16.80	2	0.01
	(c) HYVs Seeds of Rice (for varieties less than 10 year)	Rs.2000/qtl or 50% of cost whichever is less		3360	67.20	0	0.00
	Sub total			7900	370	2	0.01

NFSM-RICE 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Sept., 2018)

(Financial: Rs. In Lakh)

S. No.	Intervention	Approved rate of Assistance	Unit	Target		Achievment	
				Phy.	Fin.	Phy.	Fin.
3	Water Application Tools:						
	(a) Incentive for Pumpsets	Rs.10000/Unit or 50% of costwhichever is less	Nos.	1000	100.00	21	2.28
	(a) Water carrying pipes (Type of pipe to be Specified)	50% of the cost limited to Rs.50/- per meter for HDPE pipes, Rs.35/-per meter for PVC pipes and Rs.20/- per meter for HDPE laminated woven lay flat tubes with maximum ceiling of Rs.15000/- per farmer/beneficiary for water carrying pipes	Nos.	800	120.00	19	2.78
	Sub total			1800	220	40	5.06
4	Cropping System based trainings (Four Sessions i.e. one before Kharif and rabi seasons, One each during Kharif and Rabi crops and one after rabi harvest)	Rs.3500/ Session Rs.14000/ Training	Nos.	125	17.50	70	10.08
	Grand Total				1366.56		135.17

NFSM-Wheat 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Sept., 2018)

(Financial: Rs. In Lakh)

S.No.	Interventions	Approved Rate of Assistance	Unit	Targets		Achievement	
				Phy.	Fin.	Phy.	Fin.
1	*Demonstrations on Improved Technologies:						
	A. Cluster Demonstrations of 100 ha each	Rs.9000/ha	ha	15500	1395.00	0	56.09
	B. Cropping system based demonstrations (30% of total outlay for demonstrations)-cropping sequence to be specified					0	0.00
	(i) Wheat-Moong (Summer)	Rs.15000/ha	ha	1200	180.00	0	6.90
	(ii) Wheat- Urd (Summer)	Rs.15000/ha	ha	1200	180.00	0	2.07
	Sub total			17900	1755	0	65.06
2	Distribution: HYVs seeds of Wheat						
	(a) HYVs seeds for varieties > 10 year (Limited to 20 per cent of total seed distribution target)	Rs.1000/qtl	qtl	14140	141.40	0	0.48
	(b) HYVs seeds for varieties < 10 year	Rs.2000/qtl	qtl	28294	565.88	357.2	1.78
	Sub total			42434	707.28	357.2	2.26
3	Water Application tools						
	(a) Water carrying pipes	50% of the cost limited to Rs.50/- per meter for HDPE pipes, Rs.35/-per meter for PVC pipes and Rs.20/-per meter for HDPE laminated woven lay flat tubes with maximum ceiling of Rs.15000/- per farmer/beneficiary for water carrying pipes	Nos.	1500	225.00	181	29.50
	(b) Pumpsets	Rs.10000/Unit or 50% of cost whichever is less	Nos.	1000	100.00	24	3.21
	(c) Sprinkler sets	Rs.10000/ha or 50% of cost whichever is less	ha	1200	120.00	85	10.55
	(d) Mobil Rain Gun	Rs.15000/ha or 50% of cost whichever is less	ha	50	7.50	1	0.15
	Sub total			3750	452.50	291	43.41
4	Cropping system based trainings (Four Sessions i.e. one before Kharif and rabi seasons. One each during Kharif and Rabi crops)						
		Rs.3500/ session Rs.14000/Training	Nos.	230	32.20	88	11.90
	Grand Total				2946.98		122.63

NFSM-Pulses 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Sept. 2018)
(Financial: Rs. In Lakh)

S.No.	Intervention	Approved Rate of Assistance	Unit	Proposed Targets		Achievement	
				Phy.	Fin.	Phy.	Fin.
1	*Demonstrations on Improved Technologies:						
	(a) Cluster Demonstrations (of 100 ha each)						
	Arhar	Rs.9000/ha	ha	10000	900.00	12400	395.18
	Urd	Rs.9000/ha	ha	10000	900.00	13700	575.86
	Moong	Rs.9000/ha	ha	10000	900.00	10000	457.12
	Gram	Rs.9000/ha	ha	30000	2700.00	6600	104.33
	Lentil	Rs.9000/ha	ha	10000	900.00	1600	24.94
	Sub total			70000	6300.00	44300	1557.43
	(b) Demonstration on intercropping (specify intercrop)						
	Moong - Maize	Rs.9000/ha	ha	4500	405.00	5700	242.88
	Urd- Bajra	Rs.9000/ha	ha	2500	225.00	1195	13.23
	Urd - Maize	Rs.9000/ha	ha	2000	180.00	4700	125.83
	Lentil -Maize	Rs.9000/ha	ha	1000	90.00	20	0.00
	Gram - Wheat	Rs.9000/ha	ha	12000	1080.00	1505	1.35
	Pea- Maize	Rs.9000/ha	ha	1000	90.00	10	0.14
	Sub total			23000	2070.00	13130	383.43
	(c) Cropping System Based Demonstrations- 30%of the outlay of total demonstration-(specify cropping sequence)						
	Pea - Maize	Rs.15000/ha	ha	2500	375.00	645	39.85
	Moong - Wheat	Rs.15000/ha	ha	12000	1800.00	11831	505.62
	Urd - Wheat	Rs.15000/ha	ha	8000	1200.00	9122	325.74
	Sub total			22500	3375.00	21598	871.21
	Subtotal (1)			115500	11745	79028	2812.07
2	Assistance of Distribution and Production of Seeds						
2 A	Distribution of Seeds (for Varieties less than 10 year of age)						
	Arhar	Rs.5000/qtl or 50% of cost whichever is less	Qtl	6000	300.00	402.39	4.98
	Urd	Rs.5000/qtl or 50% of cost whichever is less	Qtl	12000	600.00	170	1.06
	Moong	Rs.5000/qtl or 50% of cost whichever is less	Qtl	14000	700.00	1000	0.85
	Gram	Rs.5000/qtl or 50% of cost whichever is less	Qtl	30000	1500.00	0	2.31
	Lentil	Rs.5000/qtl or 50% of cost whichever is less	Qtl	6300	315.00	0	0.03
	Sub total			68300	3415.00	1572.39	9.23

NFSM-Pulses 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Sept., 2018)

(Financial: Rs. In Lakh)

S.No.	Intervention	Approved Rate of Assistance	Unit	Proposed Targets		Achievement	
				Phy.	Fin.	Phy.	Fin.
2 B	Distribution of Seeds (for Varieties more than 10 year of age)-Limited to 20% of total seed distribution target						
	Arhar	Rs.2500/qtl or 50% of cost whichever is less	Qtl	6000	150.00	250	0.65
	Urd	Rs.2500/qtl or 50% of cost whichever is less	Qtl	6000	150.00	36.75	0.24
	Moong	Rs.2500/qtl or 50% of cost whichever is less	Qtl	8000	200.00	575	0.58
	Gram	Rs.2500/qtl or 50% of cost whichever is less	Qtl	12000	300.00	4.8	34.83
	Lentil	Rs.2500/qtl or 50% of cost whichever is less	Qtl	2150	53.75	0	0.00
	Sub total			34150	853.75	866.55	35.65
2 C	Production of Seeds (for Varieties less than 10 year of age)						
	Arhar	Rs.5000/qtl or 50% of cost whichever is less	Qtl	10000	500.00	4997.5	102.95
	Urd	Rs.5000/qtl or 50% of cost whichever is less	Qtl	15000	750.00	7395	97.34
	Moong	Rs.5000/qtl or 50% of cost whichever is less	Qtl	26000	1300.00	3449.9	48.61
	Gram	Rs.5000/qtl or 50% of cost whichever is less	Qtl	25000	1250.00	398.96	24.17
	Lentil	Rs.5000/qtl or 50% of cost whichever is less	Qtl	9000	450.00	189.66	15.89
	Sub total			85000	4250.00	16431.02	288.96
	Subtotal (2)			187450	8518.75	18869.96	332.99
3	Efficient Water Application Tools:						
	(a) Sprinkler Sets	Rs.10000/ha or 50% of cost whichever is less	Nos.	20000	2000.00	2368	194.62
	(b) Pump Sets	Rs.10000/Unit or 50% of cost whichever is less	Nos.	15000	1500.00	1650	140.50
	(c) Pipe for carrying water from source to the field	50% of the cost limited to Rs. 50/p.m. for HDPE pipes, and Rs.35/p.m. for PVC pipes and Rs. 20/p.m. for HDPE laminated woven lay flat tubes with maximum ceiling of Rs. 15000/- per beneficiary	Nos.	15000	2250.00	3364	463.89
	(d) Mobile Rain gun	Rs. 15000/Unit or 50% of cost whichever is less	Nos.	25	3.75	2	0.15
	Sub total			50025	5753.75	7384	799.16
4	CSBT (4 Sessions i.e. One before <i>Kharif</i> and <i>Rabi</i> seasons, one each during <i>Kharif</i> and <i>Rabi</i> Crops)	Rs.3500/ Session & Rs.14000/ Training	Nos.	2050	287.00	1334	146.54
5	Miscellaneous Expenses PMT & Other Miscellaneous Expenses at District level			50	725.00	0	118.71
	Miscellaneous				56.00	0	6.27
	Grand Total				27085.50		4216.60

NFSM-Coarse cereals 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh in 22 districts (Till Sept., 2018)

(Financial: Rs. In Lakh)

S.No	Interventions	Approved Rate of Assistance	Unit	GOI Approved Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
1(a)	Demonstration on Improved package						
	(i) Maize	Rs. 6000/-per ha	Ha.	10300	618.00	9846	257.45
	(ii) Barley (for covered State)	Rs. 6000/-per ha	Ha.	200	12.00	100	0.00
	Sub total			10500	630	9946	257.45
1(b)	Demonstration on Intercropping (specify the intercrop)						
	(i) Maize- Moong	Rs. 6000/-per ha		500	30.00	290	3.43
	(i) Maize- Urad			500	30.00	376	3.21
	(ii)Barley-Gram			200	12.00	0	0.00
	(ii)Barley-Lentil	Rs. 6000/-per ha		200	12.00	0	0.00
	Sub total			1400	84	666	6.64
	Sub total (1)			11900	714		
2	Distribution of Certified Seeds						
2(a)	HYVs seeds (less than 10 years of age)						
	(i) Maize	50% of coat or Rs. 3000/- Qtl.whichever is less	Qtl	500	15.00	0	0.00
	(ii)Barley (for covered State)		Qtl	165.6	4.97	0	0.00
2(b)	HYVs seeds (more than 10 years of age)						
	(i) Maize	50% of coat or Rs. 1500/- Qtl.whichever is less	Qtl	233	3.50	0	0.00
	(ii)Barley (for covered State)		Qtl	100	1.50	0	0.00
2(c)	Hybrid seeds of Maize	50% of coat or Rs. 10000/- Qtl.whichever is less	Qtl	2802	280.20	473	0.00
	Sub total			3800.6	305.163	473	0.00
	Grand Total			15701	1019.16	10985	264.09

NFSM-Nutri-cereals 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh in 24 districts (Till Sept., 2018)

(Financial: Rs. In Lakh)

S.No.	Interventions	Approved rate of assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
1	Cluster Front line Demonstration						
	(i) Jowar	Rs. 6000/ha	ha.	1000	60.00	420	9.10
	(ii) Bajra	Rs. 6000/ha	ha.	5000	300.00	3500	38.80
	(iii) kodo Millet	Rs. 6000/ha	ha.	1000	60.00	400	1.33
	(iv) Little Millet	Rs. 6000/ha	ha.	500	30.00	200	1.11
	Sub total			7500	450	4520	50.34
2	Distribution of Seed (60:40)						
	(a) Hybrid seed of nutritive variety (25% of total seed allocation of jowar & bajra)						
	(i) Bajra	50% of coat or Rs. 10000/- Qtl.whichever is less	qtl	650	65.00	40	0.00
	(ii) Jowar	50% of coat or Rs. 10000/- Qtl.whichever is less	qtl	50	5.00	0	0.00
	(b) HVVs seed						
	(i) Jowar (for varieties < 10 years)	50% of coat or Rs. 3000/- Qtl.whichever is less	qtl	1933	57.99	0	0.00
	(ii) Jowar (for varieties > 10 years)	50% of coat or Rs. 1500/- Qtl.whichever is less	qtl	1000	15.00	0	0.00
	(iii) Bajra (for varieties < 10 years)	50% of coat or Rs. 3000/- Qtl.whichever is less	qtl	1000	30.00	0	0.00
	(iv) Bajra (for varieties > 10 years)	50% of coat or Rs. 1500/- Qtl.whichever is less	qtl	500	7.50	0	0.00
	(vii) Small Millets						
	(a) kodo Millet (for varieties < 10 years)	50% of coat or Rs. 3000/- Qtl.whichever is less	qtl	700	21.00	0	0.00
	(b) kodo Millet (for varieties > 10 years)	50% of coat or Rs. 1500/- Qtl.whichever is less	qtl	333	5.00	0	0.00
	(c) Little Millet (for varieties < 10 years)	50% of coat or Rs. 3000/- Qtl.whichever is less	qtl	700	21.00	0	0.00
	(d) Little Millet (for varieties > 10 years)	50% of coat or Rs. 1500/- Qtl.whichever is less	qtl	333	5.00	0	0.00
				7199	232.49	40	0
3	Certified seed production HVVs seeds by state < 10 years old varieties (60:40)						
	(i) Jowar	50% of coat or Rs. 3000/- Qtl.whichever is less	qtl	200	6.00	0	0.00
	(ii) Bajra	50% of coat or Rs. 3000/- Qtl.whichever is less	qtl	4730	141.90	0	0.00
	(vi) Small Millets						
	(a) kodo Millet	50% of coat or Rs. 3000/- Qtl.whichever is less	qtl	150	4.50	0	0.00
	(e) Little Millet	50% of coat or Rs. 3000/- Qtl.whichever is less	qtl	150	4.50	0	0.00
				5230	156.90	0	0
4	Cropping system based training	Rs. 14000/ training of 4 session		185	25.90	75	9.59
5	Farm Implement & Equipments (60:40)						
	(i) Manual Sprayer For SC/ST, Women Farmer , Small and Marginal Farmer	50% of coat or Rs. 600/-unit ,whichever is less	Nos.	28000	168.00	-	-
	(ii) Manual Sprayer For other Farmer	40% of coat or Rs. 500/-unit ,whichever is less	Nos.	18400	92.00	-	-
	Grand Total			66514	1125.29		59.93

NFSM-Sugarcane 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Sept., 2018)

(Financial: Rs. In Lakh)

S. No.	Interventions	Approved Rate of Assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
1	Demonstration on Intercropping and single bud chip technology with sugarcane	Rs. 9000 per ha.(Rs.8000 for inputs & Rs. 1000 for contingency)	Ha.	460	41.40	0.00	4.50
2	Distribution of plant protection chemicals and Bioagents	Rs.500/ha or 50% of the cost, Whichever is less	Ha.	1730	8.65	0.00	0.00
3	State Level Training (20 Participant*2 day)	40000/ Training	Nos.	3	1.20	0.00	0.00
Total					51.25		4.50

NFSM-Cotton 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Sept., 2018)

(Financial: Rs. In Lakh)

S. No.	Interventions	Approved Rate of Assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
1	Front Line Demonstration (FLD) on Integrated Crop Management (ICM)	Rs.8000/ha.(Rs.7000 for input &Rs.1000 for contingency)	Ha.	200	16.00	0	0.00
2	FLD on Deshi and ELS Cotton /ELS Cotton Seed Production	Rs.9000/ha.(Rs.8000 for input &Rs.1000 for contingency)	Ha.	100	9.00	0	0.00
3	FLD on Intercropping	Rs.8000/ha.(Rs.7000 for input &Rs.1000 for contingency)	Ha.	750	60.00	0	0.00
4	FLD on natural colour cotton	Rs.8000/ha.(Rs.7000 for input &Rs.1000 for contingency)	Ha.	210	16.80	0	0.00
5	Trials on High Density Planting System HDPS	Rs.10000/ha.(Rs.9000 for input &Rs.1000 for contingency)	Ha.	199	19.90	0	0.00
6	State Level Training (20 Participant*2 day)	Rs.40000/ Training	No.	2	0.80	0	0.00
Total					122.50		

APPROVED COST NORMS & INPUT CAFETERIA :2018-19**I. CLUSTER DEMONSTRATION: SOLE CROPS****1. CLUSTER DEMONSTRATION : CEREAL****A. RICE HIGH YIELDING (DIRECT SEEDED RICE & STRESS TOLERANT VARIETY)**

(Amount in Rs.)

S. No.	Name of Interventions	Recommended by Agri. Scientist	
		Recommendation	Total Cost /ha
1	Paddy Seed (Less than 10 years)	60 kg/ha	2900.00
2.	Soil treatment (<i>Trichoderma viride</i>)	5 kg/ha	500.00
3	Zinc sulphate (Based on soil testing value)	25 kg/ha	1100.00
4.	Seed treatment (Carbendazim & Mancozeb)	1.5g+2.5g/kg Seed	300.00
4.	Use of biofertilizer (BGA, Vermicompost etc.)	5kg BGA+300kg/ha.	1600.00
5.	Biopesticide (Mycorrhiza, Azatirachtin 3000ppm, IPM etc.)	2 lt/ha	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		9000.00

B. RICE HIGH YIELDING (LINE TRANSPLANTING)

(Amount in Rs.)

S. No.	Name of Interventions	Recommended by Agri. Scientist	
		Recommendation	Total Cost /ha
1	Paddy Seed (Less than 10 years)	60 kg/ha	2900.00
2.	Soil treatment (<i>Trichoderma viride</i>)	5 kg/ha	500.00
3	Zinc sulphate (Based on soil testing value)	25 kg/ha	1100.00
4.	Seed treatment (Carbendazim & Mancozeb)	1.5g+2.5g/kg Seed	300.00
4.	Use of biofertilizer (BGA, Vermicompost etc.)	5kg BGA+300kg/ha.	1600.00
5.	Biopesticide (Mycorrhiza, Azatirachtin 3000ppm, IPM etc.)	2 lt/ha	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		9000.00

C. RICE HIGH YIELDING (SYSTEM RICE INTENSIFICATION & HYBRID VARIETY)

(Amount in Rs.)

S. No.	Name of Interventions	Recommended by Agri. Scientist	
		Recommendation	Total Cost /ha
1	Paddy Seed (Less than 10 years)	60 kg/ha	2900.00
2.	Soil treatment (<i>Trichoderma viride</i>)	5 kg/ha	500.00
3	Zinc sulphate (Based on soil testing value)	25 kg/ha	1100.00
4.	Seed treatment (Carbendazim & Mancozeb)	1.5g+2.5g/kg Seed	300.00
4.	Use of biofertilizer (BGA, Vermicompost etc.)	5kg BGA+300kg/ha.	1600.00
5.	Biopesticide (Mycorrhiza, Azatirachtin 3000ppm, IPM etc.)	2 lt/ha	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		9000.00

2. CLUSTER DEMONSTRATION : PULSES

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Popularization of improved varieties		
1.1	Urd Moong and Pigeon pea	20 kg/ha	3000.00
1.2	Chick Pea/field pea	75 kg/ha	
1.3	Lentil/Horse gram	40 kg/ha	
2	Seed treatment fungicides/Molybdenum	100gm/ha	100.00
3	Promotion of use of Micro Nutrients and bio-fertilizers		
3.1	Zinc sulphate (Based on soil testing value) Zinc Sulphate 21%	25kg/ha	800.00
3.2	Sulphur	Sulphur 80% WG	20kg/ha
		Gypsum	250kg/ha
3.3		Rhizobium (liquid culture)	2lts/ha
		PSB (liquid culture)	2lts/ha
		Trichoderma viride	2kg/ha
4	Plant Protection	For Diseases	2lts/ha
		For insect and pesticide	
		Weedicide	
5	IPM	Neem oil (3000 ppm)	2lts/ha
		NPV virus	250 Li
6	Publicity material /Visit of Scientists/Field Day	-	800.00
	Total		9000.00

3. CLUSTER DEMONSTRATION :COARSE CEREALS

A. MAIZE

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
	Hybrid Maize Seed	20 kg/ha	3000.00
2.	Seed treatment Trichoderma/Carbendazim	100gm	100.00
3.	Zinc sulphate (Based on soil testing value)	25 kg/ha	500.00
4.	Weedicides	500gm	300.00
5.	Bio-fertilizers (Azotobacter and PSB liquid)	1lt each/ha	300.00
6.	IPM	Trichoderma	1kg/ha
		Neem oil	1lt/ha
7.	Publicity material /Visit of Scientists/Field Day	-	800.00
	Total		6000.00

4. CLUSTER DEMONSTRATION :NUTRI- CEREALS -

A. JOWAR

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1.	Hybrid Jowar Seed	10 kg/ha	2000.00
2.	Seed treatment Trichoderma/Carbendazim	100gm	100.00
3.	Zinc sulphate (Based on soil testing value) + Borax	25 kg/ha + 10 kg/ha	700.00
4.	Weedicides	500gm	1000.00
5.	Bio-fertilizers (Azotobacter and PSB liquid)	1lt each/ha	400.00
6.	Plant protection		1000.00
7.	Publicity material /Visit of Scientists/Field Day	-	800.00
	Total		6000.00

II. INTERCROPPING DEMONSTRATION

1. INTERCROPPING DEMONSTRATION: MOONG+ MAIZE AND URD+MAIZE

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Soybean (Main Crop)+ Maize/Jowar/Bajra/ Kodokutki		2500.00
2	Seed treatment fungicides		200.00
3.	Zinc Sulphate	25 kg/ha	500.00
4.	Weedicides		900.00
5	Azotobacter, PSB and PMB	5 g each ino. /kg seed	100.00
6.	Publicitymaterial/Visit of Scientists/Field Day		800.00
	Total		5000.00

2. INTERCROPPING DEMONSTRATION: URD+BAJRA

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Soybean (Main Crop)+ Maize/Jowar/Bajra/ Kodokutki		2500.00
2	Seed treatment fungicides		200.00
3.	Zinc Sulphate	25 kg/ha	500.00
4.	Weedicides		900.00
5	Azotobacter, PSB and PMB	5 g each ino. /kg seed	100.00
6.	Publicitymaterial/Visit of Scientists/Field Day		800.00
	Total		5000.00

3. INTERCROPPING DEMONSTRATION FOR PULSES

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Wheat. Jowar, Soybean, Mustard (Main Crop) +Urd/Mung/Moth/Cowpea/Tur/Gram/Pea/ Lentil/Gram (Intercrop)		3400.00
2.	Seed treatment fungicides		300.00
3.	Promotion of use of micro-nutrient and bio-fertilizer		
3.1	Zinc/Boron/Molybdenum	25 kg/ha	300.00
3.2	Rhizobium & PSB		200.00
4.	Plant Protection		2000.00
5	Weed management		2000.00
6.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		9000.00

4. INTERCROPPING DEMONSTRATION FOR SUGARCANE (COMMERCIAL CROPS)

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Seed	Wheat- 40 kg/ha & Gram-35 kg/ha	3600.00
2.	Seed treatment fungicides		200.00
3.	Promotion of use of micro-nutrient and bio-fertilizer		
3.1	Zinc/Boron/Molybdenum	25 kg/ha	300.00
3.2	Rhizobium and PSB		100.00
4.	Plant Protection		2000.00
5	Weed management		2000.00
6.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		9000.00

III. CROPPING SYSTEM BASED DEMONSTRATION (CSBD)

1. PULSE-WHEAT

A. CSBD: PULSE

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1.	Urd, Moong and Pigeon pea (less than 10 years)	20 kg/ha	3500.00
2.	Soil treatment (<i>Trichoderma viride</i>)	5 kg/ha	500.00
3.	Zinc Sulphate	25 kg/ha	1000.00
3.	Seed treatment fungicides	250 gm	100.00
4.	Liquid biofertilizer (Rhizobium, PSB and other cultures etc.)	2 lts	500.00
5.	Vermicompost	300 kg/ha	1600.00
6.	Biopesticide (Mycorrhiza, Azadirachtin 3000ppm, IPM etc.)	2 lt/ha	1000.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		9000.00

B. CSBD: WHEAT

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1.	Wheat seed (less than 10 years)	60 kg/ha	2500.00
2.	Soil treatment (<i>Trichoderma viride</i>)	5 kg/ha	200.00
3.	Zinc Sulphate	25 kg/ha	900.00
3.	Seed treatment fungicides	250 gm	100.00
4.	Liquid biofertilizer (Rhizobium, PSB and other cultures etc.)	2 lts	300.00
5.	Vermicompost	300 kg/ha	600.00
6.	Biopesticide (Mycorrhiza, Azadirachtin 3000ppm, IPM etc.)	2 lt/ha	600.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		6000.00

2. RICE-WHEAT

A. CSBD: RICE

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1.	Rice seed (less than 10 years variety)	60 kg/ha	2900.00
2.	Soil treatment (<i>Trichoderma viride</i>)	5 kg/ha	500.00
3.	Zinc Sulphate	25 kg/ha	1100.00
3.	Seed treatment fungicides (Carbendazim+ Mancozeb)	1.5g+2.5g/kg	100.00
4.	Biofertilizer (BGA, Vermicompost and PROM etc.)	5kg BGA+300kg/ha	1600.00
6.	Biopesticide (Mycorrhiza, Azadirachtin 3000ppm, IPM etc.)	2 lt/ha	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		9000.00

B. CSBD: WHEAT

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1.	Wheat seed (less than 10 years)	60 kg/ha	2800.00
2.	Soil treatment (<i>Trichoderma viride</i>)	5 kg/ha	300.00
3.	Zinc Sulphate	25 kg/ha	1100.00
4.	Seed treatment fungicides	1.5g/kg seed	200.00
5.	Use of Biofertilizer (Vermicompost, PROM etc.)	5kg+300kg/ha	800.00
6.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		6000.00

3. RICE-PULSES

A. CSBD: RICE

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1.	Rice seed (less than 10 years variety)	60 kg/ha	2900.00
2.	Soil treatment (<i>Trichoderma viride</i>)	5 kg/ha	500.00
3.	Zinc Sulphate	25 kg/ha	1100.00
3.	Seed treatment fungicides (Carbendazim+Mancozeb)	1.5g+2.5g/kg	100.00
4.	Biofertilizer (BGA, Vermicompost and PROM etc.)	5kg BGA+300kg/ha	1600.00
6.	Biopesticide (Mycorrhiza, Azatirachtin 3000ppm, IPM etc.)	2 lt/ha	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		9000.00

B. CSBD: PULSES

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1.	Chickpea/Lentil (less than 10 years)	60 kg/ha/40kg/ha	2800.00
2.	Soil treatment (<i>Trichoderma viride</i> and <i>PSB</i>)	5 kg/ha	200.00
3.	Zinc Sulphate	25 kg/ha	1000.00
3.	Seed treatment fungicides (Bavistin+Thirum)	1g+2g/kg seed	100.00
4.	Use of Biofertilizer (Vermicompost, PROM etc.)	5kg+300kg/ha	600.00
6.	Biopesticide (Mycorrhiza, Azatirachtin 3000ppm, IPM etc.)	2 lt/ha	500.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	Total		6000.00

CAFETERIA OF INTERVENTIONS FOR CLUSTER DEMONSTRATIONS IN MADHYA PRADESH FOR 2018-19**A. CLUSTER DEMONSTRATION: PULSES**

(Amount in Rs.)

S.No.	Name of interventions	Recommended by agriculture Scientist	Total Cost/ha(Rs.)
1	Popularization of improved varieties		
A	Urd/Moong/Pigeon pea/Gram/lentil	Seed	3600
2	Seed Treatment fungicide/Molybdenum	Seed Treatment with Cardendizim+Thiram(2:1) @ 3 g/kg Seed	200
3	Promotion of use of biofertilizer		
A	Molybdenum	Molybdenum @1 g Amonium Molybdate/kg seed with Rhizobium +PSB inoculant	300
B	Rhizobium and PSB	Specific Rhizobium and PSB	100
		Rhizobium	
		Every year each pulse crop should be inoculated with appropriate inoculants	
		Seed should be treated first with fungicide as per recommendations	
		Prepare a slurry of 1 kg of Rhizobium culture in1 lit. of jiggery solution (by dissolving 200 g jaggary in 1lit. of hot water and cool it)	
		Spread inoculants slurryover 80-100 gm of seed	
		It found difficult to treat such a vig quantity of seed then it should be divided in 3 -4 parts and accordingly inoculant slurry should also be divided	
		Mix the inoculants slurry in shade with seed so that every seed should be coated well	
		Sow the innoculated seed as early as possible and do not keep the treated seeds overnight	
		PSB	
		3 kg of each inoculants should be taken	
		It should be mixed with 150 kg well powered fym /compost/ vermicompost (about 40% moisture should be maintained)	
		Broadcast the mixture over 1 hac. land	
4	Plant protection	Moong ,urd: trizophos 40 EC @ 1lit/hac.	2000
5	Weed management	imazethapyr @ 50gmai/hac. (15-20 days after sowing) pendimethlin @ 3.3 lit/hac.	2000
6	Publicity material/visit of scientists /field day		800
TOTAL			9000

B. CROPPING SYSTEM BASED DEMONSTRATION: PULSES – WHEAT

A. CSBD: PULSE

Amount in Rs.

S.No.	Name of interventions	Recommended by agriculture Scientist	Total Cost/ha(Rs.)
1	Popularization of improved varieties		
A	Urd/Moong/Pigeon pea/Gram/lentil	Seed	3600
2	Seed Treatment fungicide/Molybdenum	Seed Treatment with Cardendizim+Thiram(1:2) @ 3 g/kg Seed or imidacloprid and thiomaxin (urd and moong for YMV control) @ 1.5 ml/kg Seed	200
3	Promotion of use of biofertilizer		
A	Molybdenum	Molybdenum @1 g Amonium Molybdate/kg seed with Rhizobium +PSB inoculant	300
B	Rhizobium and PSB	Specific Rhizobium and PSB	100
		Rhizobium	
		Every year each pulse crop should be inoculated with appropriate inoculants	
		Seed should be treated first with fungicide as per recommendations	
		Prepare a slurry of 1 kg of Rhizobium culture in 1 lit. of jiggery solution (by dissolving 200 g jaggary in 1lit. of hot water and cool it)	
		Spread inoculants slurry over 80-100 gm of seed	
		It found difficult to treat such a big quantity of seed then it should be divided in 3 -4 parts and accordingly inoculants slurry should also be divided	
		Mix the inoculants slurry in shade with seed so that every seed should be coated well	
		Sow the inoculated seed as early as possible and do not keep the treated seeds overnight	
		PSB	
		3 kg of each inoculants should be taken	
		It should be mixed with 150 kg well powered fym /compost/ vermicompost (about 40% moisture should be maintained)	
		Broadcast the mixture over 1 hac. land	
4	Plant protection	Trizophos 40 EC @ 1lit/hac.or Imidacloprid @	2000
5	Weed management	Imazethapyr@ 50 gm ai/hac. (15-20 days after sowing) pendimethlin @ 3.3 lit/hac.	2000
6	Publicity material/visit of scientists /field day		800
TOTAL			9000

B. CSBD: WHEAT

S.No.	Name of interventions	Recommended by agriculture Scientist	Total Cost/ha(Rs.)
1	Popularization of improved varieties		
1	NEW HYV varieties	Seed	3000
2	Seed Treatment fungicide/Molybdenum/PSB	Seed Treatment with Cardendizim+Thiram(1:2) @ 3 g/kg Seed or PSB	200
4	Plant protection	trizophos 40 EC @ 1lit/hac.or imidaclorpid @	1000
5	Weed management	Metasulphuron@ 4 gm a i/hac post emergence(20gm/hac commercial production) or Fenoxoprop-P-Ethyhl @100 gm a i/hac post emergence(1000gm/hac commercial production) or 2,4-D (Ethyhl easter @0.5 kg a i/hac post emergence(1.33 kg/hac commercial production)	1000
6	Publicity material/visit of scientists /field day		800
TOTAL			6000

INTERCROPING DEMONSTRATION: PULSES

			Amount in Rs.
S.No.	Name of interventions	Recommended by agriculture Scientist	Total Cost/ha(Rs.)
1	Popularization of improved varieties		
A	Urd/Moong/Pigeon pea/Gram/lentil	Seed	3400
2	Seed Treatment fungicide/Molybdenum	Seed Treatment with Cardendizim+Thiram(2:1) @ 3 g/kg Seed	300
3	Promotion of use of biofertilizer		
A	Molybdenum	Molybdenum @1 g Amonium Molybdate/kg seed with Rhizobium +PSB inoculant	300
B	Rhizobium and PSB	Specific Rhizobium and PSB	200
		Rhizobium	
		Every year each pulse crop should be inoculated with appropriate inculants	
		Seed should be treated first with fungicide as per recommendations	
		Prepare a slurry of 1 kg of Rhizobium culture in 1 lit. of jiggery solution (by dissolving 200 g jaggary in 1lit. of hot water and cool it)	
		Spread inoculants slurry over 80-100 gm of seed	
		It found difficult to treat such a big quantity of seed then it should be divided in 3 -4 parts and accordingly inoculants slurry should also be divided	
		Mix the inoculants slurry in shade with seed so that every seed should be coated well	
		Sowing of the inoculated seed as early as possible and do not keep the treated seeds overnight	
		PSB	
		3 kg of each inoculants should be taken	
		It should be mixed with 150 kg well powered fym /compost/ vermicompost (about 40% moisture should be maintained)	
		Broadcast the mixture over 1 hac. land	
4	Plant protection	Moong ,urd: triazophos 40 EC @ 1lit/hac.	2000
5	Weed management	imazethapyr@ 50gmai/hac. (15-20 days after sowing) pendimethlin @ 3.3 lit/hac.	2000
6	Publicity material/visit of scientists /field day		800
TOTAL			9000

Note : 1.If the seed is already treated, amount on seed treatment will not be used .

2. Above intervention may be changed region wise according to the availability of inputs.

THE SEED PROCUREMENT AND SEED DISTRIBUTION RATES FOR STATE SEED CORPORATION DURING 2018-19 DECIDED BY THE ACS AND APC

S.No.	Crop	Seed procurement rate 2018-19 for farmers (Including bonus)	Marketing rates of seed reached to the farmer (Excluding the seed distribution subsidy)	Subsidy rates on Seed distribution debited to farmers' bank account	Selling rate (Excluding the seed distribution subsidy)
1	Tall wheat variety (Within 10 years)	2200	3750	750	3000
2	Tall wheat variety (>10 years)	2200	3700	100	3600
3	Dwarf wheat variety (Within 10 years)	2000	3550	7580	2800
4	Dwarf wheat variety (>10 years)	2000	3300	100	3200
5	Chickpea (Within 10 years)	4600	6300	1300	5000
6	Chickpea (> 10 years)	4600	6300	500	5800
7	Kabuli Chickpea (Within 10 years)	5100	6700	1300	5400
8	Kabuli Chickpea (> 10 years)	5100	6500	500	6000
9	Field pea (Within 10 years)	2300	4000	2000	2000
10	Field pea (> 10 years)	2300	3800	300	3500
11	Field pea (all varieties)	2800	4400	Nil	4400
12	Lentil (Within 10 years)	4500	6400	3200	3200
13	Lentil (> 10 years)	4500	5900	2500	3400
14	Mustard (Within 10 years)	4150	6000	3000	3000
15	Mustard (> 10 years)	4150	6000	Nil	6000
16	Linseed (Within 10 years)	4100	5800	2900	2900
17	Linseed (> 10 years)	4100	5500	Nil	5500
18	Barley (Within 10 years)	1500	2900	800	2100
19	Barley (> 10 years)	1500	2900	400	2500
20	Summer Moong (Within 10 years)	5700	6600	3300	3300
21	Summer Moong (> 10 years)	5700	6500	2500	4000

NFSM: MADHYA PRADESH
PULSES MINIKITS ALLOCATION KHARIF 2018

Qty: 1 minikit of 4 kg seed)

S. No.	DISTRICTS	NSC		NAFED	Total
		Arhar-TJT-501	Arhar-BDN-711	Arhar-TJT-501	
1.	JABALPUR	250	50	100	400
2.	KATNI	150	100	100	350
3.	BALAGHAT	200	100	100	400
4.	CHHINDWARA	600	100	200	900
5.	SEONI	200	100	100	400
6.	MANDLA	100	50	100	250
7.	NARSINGHPUR	1150	100	300	1550
8.	SAGAR	200	100	100	400
9.	DAMOH	600	100	140	840
10.	PANNA	300	100	100	500
11.	CHHATARPUR	100	100	100	300
12.	REWA	800	50	200	1050
13.	SIDHI	300	100	100	500
14.	SINGRAULI	400	100	140	640
15.	SATNA	1000	100	140	1240
16.	UMARIA	300	100	100	500
17.	ANUPPUR	200	100	100	400
18.	DHAR	100	50	100	250
19.	JHABUA	100	100	100	300
20.	KHARGONE	300	100	100	500
21.	BARWANI	100	50	100	250
22.	KHANDWA	200	100	100	400
23.	BURHANPUR	150	50	100	300
24.	UJJAIN	100	100	100	300
25.	AAGAR MALWA	100	100	100	300
26.	MORENA	500	50	140	690
27.	SHEOPURKALA	100	50	100	250
28.	BHIND	100	100	100	300
29.	BHOPAL	250	100	100	450
30.	SEHORE	250	100	100	450
31.	RAISEN	900	100	140	1140
32.	VIDISHA	100	100	100	300
33.	HOSHANGABAD	400	100	100	600
34.	BETUL	400	100	100	600
	TOTAL	11000	3000	4000	18000

OILSEED MINIKITS ALLOCATION KHARIF 2018

(Qty. in Nos.)

S. NO.	NAME OF DISTRICT	CROP -SOYABEAN					CROP-SESAMUM		TOTAL
		NSC		NAFED		HIL	NAFED		
		JS-9560	JS-2034	JS-9560	RVS-2001-04	JS-9560	RT-351	RT-346	
1.	JABALPUR	200	-	-	-	-	-	450	650
2.	KATNI	100	-	-	-	-	-	350	450
3.	BALAGHAT	-	-	-	-	-	-	-	0
4.	CHHINDWARA	875	-	-	-	-	-	600	1475
5.	SEONI	300	-	-	-	-	-	400	700
6.	MANDLA	100	-	-	-	-	-	500	600
7.	DENDORI	100	-	-	-	-	-	400	500
8.	NARSINGHPUR	500	-	-	-	-	-	300	800
9.	SAGAR	-	200	6000	1000	-	-	600	7800
10.	DAMOH	-	-	500	500	-	-	400	1400
11.	PANNA	-	-	500	200	-	-	250	950
12.	TIKAMGARH	-	-	500	200	-	-	250	950
13.	CHHATARPUR	-	100	400	500	-	-	500	1500
14.	REWA	300	-	-	-	-	800	-	1100
15.	SIDHI	150	-	-	-	-	400	-	550
16.	SINGRAULI	100	-	-	-	-	250	-	350
17.	SATNA	500	-	-	-	-	700	-	1200
18.	SHAHDOL	200	-	-	-	-	400	-	600
19.	ANUPPUR	150	-	-	-	-	350	-	500
20.	UMARIA	100	-	-	-	-	250	-	350
21.	INDORE	3000	100	-	500	900	-	-	4500
22.	DHAR	1400	100	-	2500	3200	-	-	7200
23.	JHABUA	-	100	400	-	500	-	-	1000
24.	KHARGONE	-	-	500	500	-	-	-	1000
25.	BARWANI	-	50	-	500	450	-	-	1000
26.	ALIRAJPUR	-	50	450	-	-	-	-	500
27.	KHANDWA	-	100	500	2000	1400	600	-	4600
28.	BURHANPUR	-	-	-	-	500	-	-	500
29.	UJJAIN	1000	100	-	3000	3100	-	-	7200
30.	MANDSAUR	-	150	3000	2350	500	-	-	6000
31.	NEEMUCH	-	50	1400	1550	500	-	-	3500
32.	RATLAM	-	50	2000	1200	750	-	-	4000
33.	DEWAS	3300	100	-	2100	1500	-	-	7000
34.	SHAJAPUR	-	100	2400	2200	1500	-	-	6200
35.	MORENA	250	-	-	-	-	600	-	850
36.	SHEOPURKALA	200	-	-	-	-	250	-	450
37.	BHIND	100	-	-	-	-	550	-	650
38.	GWALIOR	150	-	-	-	-	350	-	500
39.	SHIVPURI	3600	-	-	-	-	700	-	4300
40.	GUNA	4000	-	-	-	-	-	-	4000
41.	ASHOKNAGAR	3500	-	-	-	-	-	-	3500
42.	DATIA	700	-	-	-	-	250	-	950
43.	BHOPAL	1450	50	-	-	-	-	-	1500
44.	SEHORE	5000	100	-	1000	700	-	-	6800
45.	RAISEN	-	50	-	950	1000	-	-	2000
46.	VIDISHA	5000	100	-	1100	1000	-	-	7200
47.	BETUL	5000	100	-	900	-	-	-	6000
48.	RAJGARH	4800	200	-	1500	1000	550	-	8050
49.	HOSHANGABAD	1425	75	-	1000	-	-	-	2500
50.	HARDA	2450	50	-	1000	-	-	-	3500
51.	AGAR MALWA	-	50	1450	500	1500	-	-	3500
	TOTAL	50000	2125	20000	28750	20000	7000	5000	132875

SUPPLY STATUS OF SEED MINIKITS OF SAMPLE DISTRICTS 2018-19

A. District- Barwani

Crop	Varieties	Kit Size(kg)	Allocation by HQ		Supplied by agency to district		Date of supply	Name of seed agency
			Minikits (Nos.)	Qty. (qtl)	Minikits (Nos.)	Qty. (qtl)		
NFSM-PULSES: KHARIF CROPS								
Arhar	TJT-501	4 Kg	100	4.0	100	4.0	28.05.18	NSC, Bhopal
			100	4.0	100	4.0	07.05.18	NAFED, Indore
NFSM-OILSEED: KHARIF CROPS								
Soybean	JS-9560	8 Kg	3000	240	3000	240	08.06.18	KRIBHCO, Bhopal
	JS-9560	8 Kg	450	36	450	36	07.06.18	HIL, Jaipur Rajasthan
	RVS-2001-04	8 Kg	472	37.76	472	37.76	07.05.18	NAFED, Indore

B. District- Khandwa

Crop	Varieties	Kit Size(kg)	Allocation by HQ		Supplied by agency to district		Date of supply	Name of seed agency
			Minikits (Nos.)	Qty. (qtl)	Minikits (Nos.)	Qty. (qtl)		
NFSM-PULSES: KHARIF CROPS								
Arhar	TJT-501	4 Kg	100	4.0	100	4.0	02-05-18	NAFED
	TJT-501	4 Kg	200	8.0	200	8.0	29-05-18	NSC
NFSM-OILSEED: KHARIF CROPS								
Soybean	JS-9560	8 Kg	500	40	500	40	12-05-18	NAFED
	JS-9560	8 Kg	5000	400	5000	400	09-06-18	KRIBHCO
	JS-9560	8 Kg	1400	112	1400	112	22-05-18	HIL
	RVS 2001-04	8 Kg	2000	160	2000	160	09-06-18	NAFED
Sesamum	RT 351	1 Kg	600	6	600	6	09-05-18	NAFED

C. District-Khargone

Crop	Varieties	Kit Size(kg)	Allocation by HQ		Supplied by agency to district		Date of supply	Name of seed agency
			Minikits (Nos.)	Qty. (qtl)	Minikits (Nos.)	Qty. (qtl)		
NFSM-PULSES: KHARIF CROPS								
Arhar	TJT-501	4	300	12	300	12	04.06.2018	NSC, Bhopal
	BND-711	4	100	4	-	-	-	NSC, Bhopal
	TJT-501	4	100	4	100	4	09.05.2018	NAFED, Indore
NFSM-OILSEED: KHARIF CROPS								
Soybean	JS-9560	8	500	40	500	40	08.05.2018	NAFED, Indore
	RVS-2001-04	8	500	40	469	37.52	09.05.2018	NAFED, Indore

SOIL HEALTH CARD SCHEME**Details of Soil Health Card Distribution of Sample districts**

(As on Date 09/10/2018)

S.No.	District	Target	Number of SHCs			
			No. of sample Received in STLs	Sample Target	Number of SHCs Prepared and Distributed amongst Farmers	% sample tested to annual target
1.	Barwani	67216	14520	14421	46740	99.31
2.	Harda	30200	18489	11130	23055	76.34
3.	Khandwa	73100	19520	14316	39447	69.67%
4.	Khargone	67070	20547	26621	22150	73.89 %

Physical progress report of soil testing for Macro & Micro Nutrient

S.No.	District	Nutrient Type	Annual Target	Sample Received	Sample Analysed
1.	Barwani	Macro Nutrient	14520	14520	14421
		Micro Nutrient	14520	14520	14421
2.	Harda	Macro Nutrient	11130	18489	11130
		Micro Nutrient	-	-	-
3.	Khandwa	Macro Nutrient	20547	19520	14316
		Micro Nutrient	20547	19520	14316
4.	Khargone	Macro Nutrient	26621	20547	19671
		Micro Nutrient	26621	20547	19671

PRADHAN MANTRI KRISHI SINCHAI YOJANA**PHYSICAL AND FINANCIAL PROGRESS REPORT OF WATER APPLICATION TOOLS IN
SAMPLE DISTRICTS 2018-19****Sprinkler set**

District	S&M (55% of unit cost)		Other (45% of unit cost)		Total	
	Phy	Fin	Phy	Fin	Phy	Fin
Harda	185	22.23	201	19.85	386	42.08
Hosangabad division	919	110.65	797	78.6	1716	189.25
Barwani	348	41.96	256	25.19	604	67.14
Khandwa	456	54.93	305	30.06	761	84.99
Khargone	417	50.18	581	57.24	997	107.42
Indore division	2575	310.22	2539	250.25	5114	560.47
Total	15548	1872.89	15549	1532.39	31097	3405.28

Drip Irrigation

District	S&M (55% of unit cost)		Other (45% of unit cost)		Total	
	Phy	Fin	Phy	Fin	Phy	Fin
Harda	30	16.77	34	15.33	64	32.00
Hosangabad division	90	50.31	102	45.99	192	96.00
Barwani	26	14.06	34	15.33	60	29.39
Khandwa	61	33.79	37	16.77	99	50.56
Khargone	64	35.24	38	17.19	102	52.42
Indore division	294	161.77	246	111.18	540	272.95
Total	862	474.19	862	387.94	1724	862.13

Mobile Rain Gun

District	S&M (55% of unit cost)		Other (45% of unit cost)		Total	
	Phy	Fin	Phy	Fin	Phy	Fin
Harda	0	0.00	0	0.00	0	0.00
Hosangabad division	0	0.00	0	0.00	0	0.00
Barwani	4	1.93	4	1.95	8	3.88
Khandwa	0	0.00	0	0.00	0	0.00
Khargone	6	3.10	5	2.20	11	5.30
Indore division	10	5.03	9	4.15	19	9.18
Total	43	23.68	43	19.41	86	43.09

SEED HUB PROGRAMME

Physical progress in seed production during 2017-18 & 2018-19 under seed hub programme in sample districts

Name of the Seed hub /Year	Physical Progress		
	Target of seed prod. (qtl)	Quantity produced (qtl)	
KVK-Harda			
2017-18	Chickpea	680	505
	Green gram (S)	250	163
	Total	930	668
2018-19	Chickpea	1500	-
	Green gram (S)	500	-
	Total	2000	-
AICRP-Indore			
2017-18	Chickpea	1000	1447
	Total	1000	1447
2018-19	Chickpea	1000	-
	Total	1000	-
ZARS-Khargone			
2017-18	Arhar	350	108
	Chickpea	250	252
	Green gram (S)	100	53
	Total	700	413
2018-19	Black gram	350	-
	Green gram	100	-
	Chickpea	250	-
	Total	700	-
KVK-Dewas			
2017-18	Black gram	150	44
	Chick pea	400	320
	Green gram (S)	150	32
	Total	700	396
2018-19	Black gram	200	200
	Chickpea	1200	-
	Green gram (S)	200	-
	Total	1600	200

Details of Allocation and expenditure of infrastructure and revolving funds in seed hub of sample districts

Seed hub	Infrastructure Fund (Rs. in Lakhs)				Act for which funds utilized	Revolving fund (Rs. in Lakhs)	
	Alloc. (recorded)	Date received	Exp.	Status of work & exp/ date of completion		Alloc. (received)	Exp.
KVK-Harda	50.00	07.10.2016 30.03.2017 24.01.2018 07.08.2018	35.00	Completed	Godown	87.00	28.10
ZARS-Khargone	50.00	20.04.17	35.00	90% Completed Dec.2018 Tendered for SPU	Godown	97.00	36.00
AICRP-Indore	50.00	31.03.17	32.00	80% Completed Dec.2018	Godown	61.00	0.00
KVK-Dewas	50.00	17.04.17 09.04.18	35.00	Completed	Godown	76.00	0.04

SEED VILLAGE PROGRAMME 2018-19**PHYSICAL AND FINANCIAL PROGRESS REPORT OF SEED VILLAGE PROGRAMME IN SAMPLE DISTRICTS**

District	Crop	Variety	Crop / Variety wise Area (Acre)		Qty. of Foundation / Certified Seeds Supplied (Qtl.)		Qty. of Seeds Produced (Qtl.)	No. of Seed Village Organized*		No. of Farmers Covered*					Financial Progress (Amount Rs. in lakh) for Foundation Seed / Certified Seed Distribution		
			Target	Achiev.	Target	Achiev.		Target	Achiev.	Gen.	SC	ST	Women	Total	Fund Received	Fund Utilized	Balance
Khargone	Soyabean	-	2000	1850	600	555	-	40	37	950	100	800	-	1850	21.60	18.81	2.79
	Urd	-	750	350	45	21	-	15	7	250	50	50	-	350	2.16	0.57	1.60
Barwani	Soybean	JS-335	2240	600	1680	180	-	112	12	100	-	500	-	600	66.650	-	66.65
	Wheat	HI-1544, GW -366	800	800	800	800	-	40	40	-	-	-	-	-	-	-	-
	Gram	Jaki-218, JG-130	400	400	300	300	-	20	20	-	-	-	-	-	-	-	-
Khandwa	Wheat	1544	1800	1800	1800	1800	-	90	90	3000	1000	500	1350	4500	-	27.00	-
	Gram	JG130	1000	1000	750	750		50	50	2000	300	200	750	2500	-	33.75	-
Indore	Soyabean	JS-9560	3900	2733	2945	2087	0	195	136	5062	1283	637	6982	335	27.00	0.00	5.40

Annexure-XI

District-wise/crop-wise Prevailing & Recommended Pulses Varieties in Madhya Pradesh

S. No.	Districts	Name of Pulse Crop	Area (In 000 ha)	Prevalent Varieties	Recommended Varieties (ICAR/SAUs)
1	Indore	Pigeonpea	0.57	ICPL87,ICPL87119,TJT501,	ICPL 87119, BSMR 175, JKM 7
		Urdbean	0.10	LBG 20, T-9, PDU 1	KU 96-3 LBG 23, LAM 623, LBG 685
		Moongbean	0.10	HUM 12, HUM 1, PDM 139	TJM 3, HUM 1 HUM 6, K-851
		Chickpea	62.73	JG 218, JAKI 9218, JG 315	KAK 2, JG 14, JG 322 JG 63
		Lentil	0.30	JL 1, Kala Masara	IPL 81 (Noori) JL-3 JLS-3
		Peas	0.80	Arkel, Rachna, JM 3	Pea-1, JM-3, JM-6
		Total Pulses	64.61		
2.	Dhar	Pigeonpea	3.48	ICPL 87119, TJT 501	TJT 501 ICPL 87119 (Asha) BSMR 175
		Urdbean	5.80	T-9, PU 35	KU 96-3 RBU-38, LAM 623
		Moongbean	6.20	HUM 1, Pusa Vishal	TJM 3JM 721, TJM 3, HUM 1, HUM 6
		Chickpea	99.17	JG 130, JG 322, KAK 2	JG 130, KAK 2, JGK 3, JG 322
		Lentil	0.27	JL 1	JL-1, PL-4, RVL-31
		Peas	1.43	Arkel, Rachna	Arkel, Rachna, IPFD 1-10
		Total Pulses	120.01		
3.	Jhabua	Pigeonpea	2.48	ICPL 87 Laxmi, TJT 501,JKM7	BSMR 736, JA 4, JKM 7
		Urdbean	8.87	Shekhar, T 9, LBG 20	KU 96-3, RBU-38, LAM 623
		Moongbean	0.43	K 851, JM 721, Pusa Vaisakhi	HUM 1 TARM 2, K-851, JM 721
		Chickpea	19.13	JG 74, JG 14, JG 63, JAKI 9218, JGK 3	JG 130 JG 16, JG 11, JG 218
		Lentil	0.00	JL 3, IPL 81	IPL-81, JL-3, JL-1, L-4076
		Peas	0.20	Arkel, Ambika, Rachna	KPMR 400 Vikas
		Total Pulses	31.95		
4.	Burahnpur	Pigeonpea	3.50	ICPL-87119 (Asha), ICPL 87	JKM 7, ICPL 87119(Asha)
		Urdbean	1.50	-	-
		Moongbean	0.60	PDM 139, Pusa Vishal	HUM 1 Pusa 105, HUM-12
		Chickpea	3.37	JG 130, Vishal	KAK-2, JAKI-9218 JG-322 JG-64
		Lentil	0.01		JL-3 L-4076
		Peas	0.00	Arkel	Arkel
		Total Pulses	8.98		
5.	Khargone	Pigeonpea	14.19	ICPL-87119, ICPL 87	TJT-501, BSMR-175
		Urdbean	3.23	T-9, PU 35	JU-3
		Moongbean	7.27	HUM-12, HUM-16, K 851	HUM-1 Pant Mung-3
		Chickpea	13.93	JG-130, JG-11, JG-218	JAKI-9218 Vishal
		Lentil	0.04	-	-
		Peas	0.07	Arkel, Hema	Ambika, Prakash Matar-42
		Total Pulses	39.1		

S. No.	Districts	Name of Pulse Crop	Area (In 000 ha)	Prevalent Varieties	Recommended Varieties (ICAR/SAUs)
6.	Barwani	Pigeonpea	4.46	ICPL 87119, JKM 7	JA 4, ICPL 87, ICPL 87119 (Asha)
		Urdbean	6.83	PDM-139, T-9	LAM 623, LBG 685
		Moongbean	5.47	Pusa Vaishaki, JM 4	TJM -3, HUM 1 TARM 2
		Chickpea	4.83	JG 130, JG 315	JG 130, JG 322 JG 11
		Lentil	0.00	JL 3, IPL 81 (Noori), L 4076	IPL 81, JL-3 JL-1, RVL 31, HUL-57
		Peas	0.00	Malviya Matar- 15, Arkel	KPMR 400 KPMR 522, JM-6
		Total Pulses	24.69		
7.	Khandwa	Pigeonpea	9.18	Asha (ICPL 87119), TJT 501	TJT 501 JKM 7 ICPL 87119 (Asha)
		Urdbean	2.50		KU 96-3 LAM 623, LBG 685
		Moongbean	2.30	PDM 139, HUM 12	HUM 1 TARM 2, K-851, Pusa Vishal
		Chickpea	18.60	JG 16, JG 315	JG 130, JG 322
		Lentil	0.74	JL 3	IPL 81 (Noori), JL-3 IPL-406
		Peas	0.73	Arkel, Desi Batri	Adarsh (IPFD 99-25) Arkel, Malviya Pea-15
		Total Pulses	34.85		
8.	Hosangabad	Pigeonpea	6.61	TJT 501, ICPL 87119	TJT-501 ICPL 87119, ICPL 88039, JA 4
		Urdbean	2.90		KU-96-3 PU 30, MASH 338
		Moongbean	0.10	PDM 139, HUM 12	HUM 1 JM 721, TARM 1, HUM 6, LGG 460
		Chickpea	27.81	JG 11, JAKI 9218, JG 315	JG-130, JG-322 JG 63
		Lentil	0.44		JL-3 JL1, K-75, IPL 406, RVL 31
		Peas	0.67	Arkel. Rachna	KPMR-400 IM 9101 (Subhra), Rachna
		Total Pulses	36.46		
9.	Harda	Pigeonpea	0.65		TJT-501 ICPL 87119, JA-4
		Urdbean	0.00	T-9, Uttra, IPU-94-1	JU-2, JU-3
		Moongbean	0.00	HUM-1, HUM-12	HUM-1 HUM-12, J-45
		Chickpea	23.45	JG 11, JG 16, JG 130, JAKI 9218	KAK-2, JAKI-9218 JG-322
		Lentil	0.08	JL 3, Mallika, DPL 62, IPL 81	IPL-81, JL-3 L 4076
		Peas	0.33	Arkel, Azad-1	KMPR-400, Vikas
		Total Pulses	24.54		
10.	Betul	Pigeonpea	25.82	TJT-501, KP-87119	TJT-501 Pusa -991, JKM-7
		Urdbean	5.19	TU-9, T-9, T-44	JU-1, JU-2
		Moongbean	1.13	HUM-12, HUM-2	J-45, TM-37 J-45, TM-37
		Chickpea	39.68	JG-11, JG-74, JAKI-9218	JG-130 JG-11
		Lentil	2.47	JL-1, JL-3	JL-1, JL-3 JL-1
		Peas	3.47	Arkel, Ambika	Vikas (IPFD-99-143)
		Total Pulses	78.23		

MP: PULSES: PREVALENT VARIETIES/ RECOMMENDED VARIETIES (ICAR/SAUS)

Madhya Pradesh	Pigeonpea	Asha, JA-4, UPAS-120, TJT-501, ICPL 88039, ICPL 87119, ICPL 85063, ICPL 87, JKM 7, ICPH 2671, Laxmi, ICPL 151, Pragati, Jagriti, Pusa 33, Prabhat	TJT-501Asha, No-148, JKM-7, JA- 4, ICPL-85063 (Laxmi), JKM 189 JKM 7, Laxmi, Pragati, Jagriti, ICPL 87119, ICPL 88039, No.-148, UPAS 120, ICPL 151, BSMR 175, BSMR 736, CORG-7, LRG-41, RVICPH 2671, RVA 28, Pusa -991
	Urdbean	T-9, Uttra, IPU-94-1, T-44, PDU-4, JU-2, LBG 20, PDU 1, PU 35, Desi urd, Pant U-35, Shekhar 2, Pant U-35, PDM-139, JU 3, Uttra	KU-96-3 PU 30, 35 & 19, MASH 338, LBG 684, LBG 623, JU-3, LAM 623, LBG 685, TPU 4, KU-91-2 (Azad Urd 1), TPU 2, PDU-1, JU-3, JU-86, LBG 23, RBU-38, TJM-3 PDM-139, JU 3, Uttra, JU-2, JU-88, VB 3, MASH 338,
	Moongbean	HUM 1,2, TJM-7, PDM 139, Pusa Vishal, K-851, TMB-37, SML-668, K-58, PU 35, PDU 1, Samrat, HUM-16, HUM 1, HUM-12, TARM 1, TJM-3, Pusa Vaisakhi, HUM 16, JM 721, PDM-11,	HUM 1PDM 54, PDM-139, Pusa Vishal, JM 721, HUM 6, LGG 460, JKM-6, Pusa 9531BM 4, TARM 1, HUM 6, K-851, JKM-189, HU- 1, Meha, Pusa-9531, Samrat, JU1, JU-2, Pant U-31, TJM 3, Pusa 105, Pant Mung-3, TM-99, TMB 37, JM-1, J-45
	Chickpea	JG-16, JAKI-9218, Vishal, JG 11, JG 130, JG 16, JG 315, JG 63, Dollar chana, JG 322, JG 218, JG 74, ICCV-37, JG 14, JG 226, KAK 2, JGK 3, Ujjain-21, JG-135	JAKI-9218 JGK-3, JGK-2 JG-322 Vishal JG 16, JG 130, JG 14, 322JG 12, JG 11, JG-63, JG-14 RVG 202, RVG 203, JG-74, ICCV 2, KAK-2 , JGK 1, JG-6, Vijay JG-11,
	Lentil	JL-1, L 4046, JL 3, Malika, Shekhar M 3, , JL 2, L 4076, Kala Masara, JLS-1,2, K-75, Desi variety, L-4076, IPL 81, PL 8, DPL 62,	IPL 81, JL 3RVL 31, L 4076, JL 1, JL-3JL -1, PL -8, JLS 1, Lens 4076, L-4076, HUL 57, PL-4, K-75, DPL-62, DPL-15, RVL-31, PL-639, JM-15, IPL 406, ML-337, J-45, JMS-1, Pusa-5, IVL-31, JLS-3,
	Peas	Arkel, JM-3, Azad 1,2 & 3, Batri, Local Batri, Rachna, JM-1, Vikas, KPMR-400, Ambika, Hema, Malviya Matar- 15, Desi Batri, Adarsh, , Prakash, Adarsh, Pea-1, JM-6,	KPMR 400, Prakash Arkel, JP 885, M-1, JM-2, VL Matar-42, Rachna, Azad-1, JM-3, Azad Pea 1 & 2, Ambika (IM 9102), Vikas (IPFD 99-13), Matar-42, Adarsh (IPFD 25), KPMR 522, Pea-1, Jawahar Matar 1, Indra (KPMR-400)