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## NATIONAL FOOD SECURITY MISSION

# NATIONAL LEVEL MONITORING (NLMT) REPORT



**RABI-2018-19**  
**MADHYA PRADESH**



सत्यमेव जयते

**GOVERNMENT OF INDIA**

**MINISTRY OF AGRICULTURE & FARMERS WELFARE**

**(DEPARTMENT OF AGRICULTURE, COOPERATION & FARMERS WELFARE)**

**DIRECTORATE OF PULSES DEVELOPMENT**

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## PREFACE

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, BGREI, NMSA, RKVY, PKVY, PMKSY, NMAET (SMAM, SMSP & Extension Reforms/ATMA), MIDH, PMFBY, SHC, e-NAM etc. To effectively monitor field implementation of the CS/CSS, the department has constituted a National Level Monitoring Team (NLMT) under National Food Security Mission (*NFSM-Rice, Wheat, Pulses, Coarse Cereals, Nutri-Cereal and Commercial Crops*). The NLMT comprises of the Director, Crops Development Directorates (Directorate of Pulses Development) 02 Scientists/SMS/experts in the field of agriculture and the State Mission Director (NFSM), as Nodal Officer.

*The ToR of the National 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 recommendations for further necessary corrections (ATR) at the level of State Govt./state stake-holders for better implementation and desired mandated outcomes.*

The Team visited the State between February, 11<sup>th</sup> -16<sup>th</sup> in 04 districts of 02 sample Divisions and interacted with a number of stakeholders, people's representatives, progressive farmers, KVKs etc. 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 XII<sup>th</sup> five year plan over to XI<sup>th</sup> plan programme implementation and beyond the Five year plan (2017-18).*

I am thankful to the Principal Secretary, Agriculture and Director, (Agri.), Govt. of Madhya Pradesh for facilitating the monitoring/visit. I acknowledge the contribution of my technical officers, Dr. A.K. Shivhare, Assistant Director, Ms. Shweta Kumari, STA and Shri Sarju Pallewar, SI in bringing out the report publication.

Bhopal (M.P.)  
14<sup>th</sup> March, 2019

  
(A.K. Tiwari)  
Director

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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. DSR- Direct Seeded Rice
9. DFSMEC-District Food Security Mission Executive Committee
10. FLD-Front Line Demonstration
11. FPOs-Farmer Producer Organizations
12. GPS-Global Positioning System
13. HYV-High Yielding Varieties
14. ICAR-Indian Council of Agricultural Research
15. IPM-Integrated Pest Management
16. KVK- Krishi Vigyan Kendra
17. MAPWA- Madhya Pradesh women in Agriculture
18. MIDH-Mission for Integrated Development of Horticulture
19. MIS- Micro Irrigation System
20. MSP- Minimum Support Price
21. NAFED-National Agricultural Cooperative Marketing Federation of India Ltd.
22. NCIP-National Crop Insurance Programme
23. NDC-National Development Council
24. NGO- Non Governmental Organization
25. NFSM-National Food Security Mission
26. NFSMEC-National Food Security Mission Executive Committee
27. NLMT-National Level Monitoring Team
28. NMAET - National Mission on Agricultural Extension & Technology
29. NMOOP –National Mission on Oilseeds & Oil palm
30. NMSA- National Mission for Sustainable Agriculture
31. NRM- Natural Resource Management
32. PKVY- Paramparagat Krishi Vikash Yojana
33. PMKSY-Pradhan Mantri Krishi Sichai Yojna
34. PROM-Phosphate Rich Organic Manure
35. RAD- Rainfed Area Development
36. RCT-Resource Conservation Technology
37. SAUs-State Agriculture University
38. SDA- State Department of Agriculture
39. SFSMEC-State Food Security Mission Executive Committee
40. SMAE- Sub- Mission on Agriculture Extension
41. SMAM- Sub- Mission on Agricultural Mechanization
42. SMSP- Sub-Mission for Seed and Planting Material

# **NATIONAL LEVEL MONITORING TEAM (NLMT) REPORT ON THE IMPLEMENTATION OF NATIONAL FOOD SECURITY MISSION RABI 2018-19(WHEAT, 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 11<sup>th</sup> five year plan (2007-08 to 2011-12) consequent upon the recommendation of 53<sup>rd</sup> Meeting of National Development Council dated May 29<sup>th</sup>, 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). During 12<sup>th</sup> Plan, the all India food grains production was 260.17 million tonnes. An Additional increase of 9.19, 8.97 and 2.95 million tonnes under rice, wheat and pulses respectively was recorded from 11<sup>th</sup> five year plan.
- 1.2** During 12<sup>th</sup> 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/coarse cereals, during 2017-18 (as per 4<sup>th</sup> 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** During 2018-19 (As per 2<sup>nd</sup> Advance estimates), the production of rice, wheat, pulses and nutri/coarse cereals have been achieved at the level of 115.60 million tonnes, 99.12 million tonnes, 24.02 million tonnes and 42.64 million tonnes respectively. The total food grains production achieved during 2018-19 is 281.37 million tonnes.
- 1.7** 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.

- 1.8** The total allocation of Rs.3541.92 (incl. commercial crops) with a central share of Rs.2230.39 cr. and state share of Rs. 1311.55 cr. has been approved during 2018-19 in all India. For pulses Rs. 1487.79 cr. (CS–Rs.923.99 cr. + SS–Rs.563.80 cr.); for additional pulses Rs. 488.39 (CS-Rs. 296.03 cr.+Rs 192.39cr.) ; for intercropping of sugarcane with pulses Rs. 11.52 cr. (CS- Rs. 6.98 cr. + Rs 4.54 cr.); for rice Rs. 412.94 cr. (CS–280.55 cr. + SS–132.38 cr.); for wheat Rs. 191.42 cr. (CS–Rs.121.20 cr.+ SS–70.22 cr.);for coarse cereals Rs. 129.69 cr. (CS–87.94 cr. + SS– 41.75 cr.), for nutri- cereal Rs. 151.12 cr. (Rs. 93.16 cr.+ 57.95 cr.); for sugarcane Rs. 16.45 cr. (CS- Rs. 9.87 cr. + SS- Rs. 6.58 cr.); for cotton Rs. 16.76 (CS- Rs. 10.35 cr.+ SS-RS. 6.41 cr.); for Jute and Mesta Rs. 13.76 cr. (CS- Rs. 9.72 cr. + SS- 4.04 cr.) and for oilseed Rs. 622.08 (CS- Rs. 390.60 cr.+ Rs. 231.49 cr.).
- 1.9** The total NFSM allocation during 2018-19 for Madhya Pradesh is Rs. 348.10 cr. with a Central Share of Rs. 208.86 cr. and State’s share of Rs.139.24 cr. For NFSM Pulses the total share is Rs. 278.62 cr. (CS –Rs. 167.17 cr. + SS–Rs. 111.45 cr.); for additional pulses Rs. 165.00 cr. (CS-Rs. 99.00 cr.+ SS-Rs. 66.00 cr.); for intercropping of pulses with sugarcane Rs. 0.23cr. (CS- Rs. 0.14 cr.+ SS-Rs. 0.09 cr.); for rice Rs.15.20 cr. (CS- Rs. 9.12 cr. + SS – Rs. 6.08 cr.); for wheat Rs. 32.83 cr. (CS- Rs.19.70 cr. + SS – Rs.13.13 cr.); for coarse cereals Rs.10.19 cr. (CS- Rs.6.11 cr.+ SS – 4.08 Rs. cr.); for nutri-cereals Rs.11.25 cr. (CS- Rs.6.75 cr. +SS– 4.50 Rs. cr.); for sugarcane Rs. 0.51 cr. (CS- Rs.0.30 cr. + SS-Rs. 0.21cr.); for Cotton Rs. 1.23 cr. (CS- Rs.0.73 cr. + SS-Rs. 0.49 cr.) and for oilseed Rs.50.83 cr. (CS-Rs. 30.50 cr. + SS- Rs. 20.33 cr.).
- 1.10** 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.
- 1.10.1** 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.
- 1.10.2** Strengthening of infrastructure at ICAR/SAUs/ATARI/KVKs by *Breeder Seed Production Programme, Seed hubs, Cluster Front Line Demonstration.*
- 1.10.3** *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. COMPOSITION OF NLMT

S. No.	Organization	Names and Designation
i.	Government of India, Department of Agriculture, Cooperation & Farmer's Welfare, (Ministry of Agri. & FW) Directorate of Pulses Development Vindhyachal Bhavan, Bhopal (M.P.)	Dr. A.K. Tiwari Director, Email- <a href="mailto:dpd.mp@nic.in">dpd.mp@nic.in</a> Mobile - 9425010489 -Convenor and Team leader
ii.	ICAR-IARI-Regional Station, Indore (MP)	Dr. K. C. Sharma, Principal Scientist Email- <a href="mailto:kc_64sharma@yahoo.com">kc_64sharma@yahoo.com</a> Mobile-92002-39785 Member
iii.	RVSKVV, Gwalior (MP)	Dr. H. S. Yadav, Ex-Director Research Mobile-94256-50289 Member
iv.	RVSKVV, Gwalior (MP)	Dr. S. K. Srivastava Ex-Director Extension Email- <a href="mailto:sksrivastava03@gmail.com">sksrivastava03@gmail.com</a> Mobile- 94256-82110 Member
v.	RAK college of Agriculture (RVSKVV), Sehore (MP)	Dr. K. J. Singh, Ex- Principal Scientist Email- <a href="mailto:dr.kjsingh.ent@gmail.com">dr.kjsingh.ent@gmail.com</a> Mob.-94256-50402 Member
vi.	Government of Madhya Pradesh Deptt. of Farmers Welfare and Agriculture Development, 2 <sup>nd</sup> floor Vindhyachal Bhavan, Bhopal- 462004 (Bhopal & Gwalior Division)	Joint Director Email- <a href="mailto:zmagribho@mp.gov.in">zmagribho@mp.gov.in</a> , <a href="mailto:zmagrigwa@mp.gov.in">zmagrigwa@mp.gov.in</a> Phone-0755-2540890/0751-2361250 Member

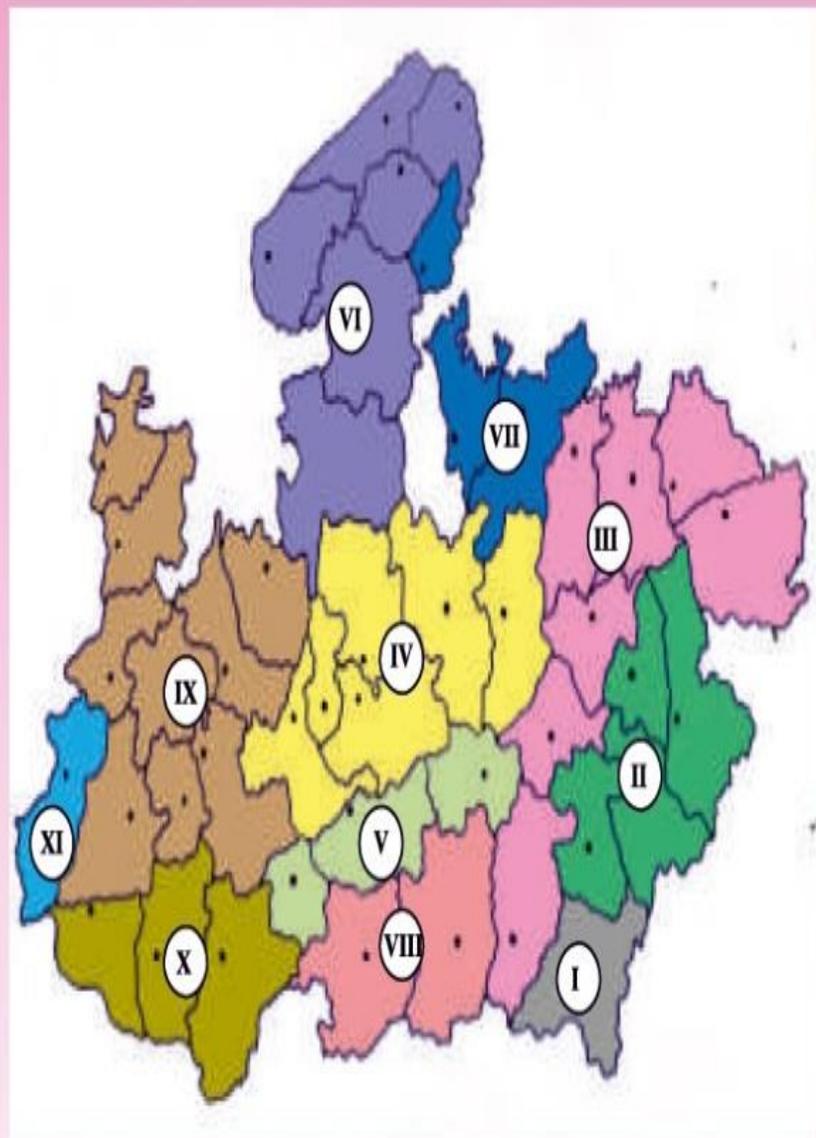
## 5. STATE PROFILE: MADHYA PRADESH

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	<b>307.56</b>	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 (%)
Marginal	(< 1 ha)	0.49	38.91 (43.85)
Small	(1 to 02 ha)	1.42	24.49 (27.60)
Semi Medium	(02 to 04 ha)	2.73	16.55 (18.65)
Medium	(04 to 10 ha)	5.76	7.89 (8.90)
Large	(10 ha & Above)	15.73	0.89 (1.00)
<b>Total</b>		<b>1.78</b>	<b>88.73</b>
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 %
		<b>Total Irrigated Area</b>	<b>63.65</b>
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 <sup>st</sup> - Pulses (27%), Oilseeds (27%), Soybean (50%), Gram (39%), Niger (35%) 2 <sup>nd</sup> - Lentil (33%), Pea (27%), Mustard (11%); 3 <sup>rd</sup> - 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** GIRD 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)

## 6. PROFILE OF VISITED DISTRICTS

Particulars	BHOPAL	VIDISHA	RAJGARH	ASHOKNAGAR
Population( Lakh)	23.71	14.59	15.46	8.45
Annual Rainfall (mm)	1154.2	996.3	838.0	882
<b>Land Use Pattern 000 ha</b>				
Geographical Area	277.9	730.2	598.66	467.4
Cultivable area	153.8	531.4	423.05	307.58
Current fallows	2.9	2.2	1.70	3.15
<b>Agricultural land use (000 ha)</b>				
Net sown area	151.20	534.78	440.48	307.58
Double Cropped Area	78.70	434.55	354.76	179.97
Gross cropped area	229.90	969.33	795.24	487.55
Cropping Intensity	152	181	180	158
<b>Irrigation 000 ha</b>				
Net irrigated area	88.7	255.5	178.80	115.6
Gross irrigated area	88.7	255.5	178.80	115.6
<b>Sources of Irrigation Area 000 ha</b>				
Canals	5.7	39.9	5.78	10.64
Tanks	1.2	4.8	3.99	2.67
Open wells	28.7	42.7	129.50	18.37
Bore wells	27.5	106.3	36.24	48.18
Others	25.6	61.90	0	29.27
Total Irrigated Area	88.7	255.50	178.80	109.13
<b>Major crops</b>				
<b>Kharif</b>	Rice, Pigeonpea (Tur), Maize, Blackgram, Soybean	Rice, Pigeonpea (Tur), Maize, Blackgram, Soybean	Rice, Pigeonpea (Tur), Jowar, Maize, Blackgram, Soybean	Rice, Minor Millets, Maize, Pigeonpea (Tur), Blackgram, Soybean
<b>Rabi</b>	Wheat, gram, lentil, Pea, Linseed	Wheat, gram, lentil, Linseed	Wheat, gram, lentil, Linseed	Wheat, gram, lentil, Rapeseed-mustard, Linseed

Source: <http://agricoop.nic.in>

## 7. CROP SCENARIO: TARGET/ACHIEVEMENT OF MP (2018-19)

### 7.1 RABI CROPS

(Area-Lakh ha; Production- Lakh tonnes; Yield- kg/ha)

Crop	Production Target 2018-19	Achievement 2018-19			% achievement in production against target
		Area	Production	Yield	
Wheat	165.00	54.8	172.24	3143	104
Barley	3.00	1.21	2.91	2405	97
<b>Total cereal</b>	<b>168.00</b>	<b>56.01</b>	<b>175.15</b>	<b>3127</b>	<b>104</b>
Gram	46.00	34.32	46.13	1344	100
Urd	0.38	0.17	0.14	824	37
Mung	0.85	1.40	0.76	543	89
Lentil	-	5.60	6.41	1145	
<b>Total Pulses</b>	<b>55.63</b>	<b>45.83</b>	<b>57.85</b>	<b>1262</b>	<b>104</b>
<b>Total food grain</b>	<b>223.63</b>	<b>101.84</b>	<b>233</b>	<b>2288</b>	<b>104</b>
Rapeseed & Mustard	9.46	7.78	11.06	1422	117
Linseed & other oilseed	0.82	1.52	0.88	579	107
<b>Total Oilseed</b>	<b>10.25</b>	<b>9.30</b>	<b>11.94</b>	<b>1284</b>	<b>116</b>
<b>Sugarcane</b>	<b>48.00</b>	<b>1.18</b>	<b>69.56</b>	<b>58949</b>	<b>145</b>
<b>Total Rabi</b>	<b>281.88</b>	<b>112.32</b>	<b>314.5</b>	<b>2800</b>	<b>112</b>

Source: DES, Govt. of India, 2<sup>nd</sup> Advance estimate 2018-19

### 7.2 KHARIF CROPS

(Area-Lakh ha; Production- Lakh tonnes; Yield- kg/ha)

Crop	Production Target 2018-19	Achievement 2018-19			% achievement in production against target
		Area	Production	Yield	
Paddy	40.00	19.75	44.83	2270	112
Jowar	5.00	1.38	3.06	2217	61
Bajra	4.50	2.56	6.29	2457	140
Maize	35.00	13.61	49.25	3619	141
Other Cereal	1.55	1.42	1.13	796	73
<b>Total Cereal</b>	<b>86.05</b>	<b>38.72</b>	<b>104.56</b>	<b>2700</b>	<b>122</b>
Tur	9.27	4.45	5.77	1297	62
Urd	12.00	16.52	13.19	798	110
Mung	1.50	1.91	1.24	649	83
Other Pulses	8.40	0.13	0.06	462	1
<b>Total Pulses</b>	<b>22.78</b>	<b>23.01</b>	<b>20.27</b>	<b>881</b>	<b>89</b>
<b>Total food grain</b>	<b>108.83</b>	<b>61.73</b>	<b>124.83</b>	<b>2022</b>	<b>115</b>
Groundnut	4.00	2.35	3.69	1570	92
Soybean	73.00	56.04	72.01	1285	99
Sesamum	2.48	4.40	2.00	455	81
Other Oilseed	1.09	0.55	0.25	455	23
<b>Total Oilseed</b>	<b>80.56</b>	<b>63.34</b>	<b>77.95</b>	<b>1231</b>	<b>97</b>
Jute & Mesta	0.11	0.12	0.18	1500	163
<b>Cotton</b>	<b>20.50</b>	<b>6.14</b>	<b>20.07</b>	<b>3269</b>	<b>98</b>
<b>Total Kharif</b>	<b>209.98</b>	<b>131.33</b>	<b>223.03</b>	<b>1698</b>	<b>106</b>

Source: DES, Govt. of India, 2<sup>nd</sup> Advance estimate 2018-19

## 8. MAJOR CROPS SCENARIO: PLAN ANALYSIS

### 8.1 KHARIF CROPS

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

S. N.	Crops	State/ AI	XI <sup>th</sup> Plan			XII <sup>th</sup> Plan			Increase/decrease over XI <sup>th</sup> Plan		
			A	P	Y	A	P	Y	A	P	Y
<b>A Cereals</b>											
1	Paddy	MP	15.90	16.56	1041	20.5	33.9	1654	29	105	59
		AI	<b>392.15</b>	<b>834.02</b>	<b>2127</b>	<b>395.39</b>	<b>925.93</b>	<b>2342</b>	<b>1</b>	<b>11</b>	<b>10</b>
2	Jowar	MP	4.54	5.89	1297	2.37	4.2	1772	-48	-29	37
		AI	<b>30.65</b>	<b>33.33</b>	<b>1087</b>	<b>22.34</b>	<b>22.63</b>	<b>1013</b>	<b>-27</b>	<b>-32</b>	<b>-7</b>
3	Bajra	MP	1.72	2.79	1616	2.3	4.84	2104	33	74	30
		AI	<b>91.23</b>	<b>92.02</b>	<b>1009</b>	<b>74.03</b>	<b>89.95</b>	<b>1215</b>	<b>-19</b>	<b>-2</b>	<b>20</b>
4	Maize	MP	8.49	11.32	1333	10.41	22.04	2117	23	95	59
		AI	<b>71.48</b>	<b>149.29</b>	<b>2089</b>	<b>74.22</b>	<b>170.67</b>	<b>2300</b>	<b>4</b>	<b>14</b>	<b>10</b>
5	Small millet	MP	2.80	0.84	300	1.9	0.92	484	-32	9	61
		AI	<b>8.75</b>	<b>4.54</b>	<b>519</b>	<b>6.59</b>	<b>4.17</b>	<b>633</b>	<b>-25</b>	<b>-8</b>	<b>22</b>
6	Kha. Coarse Cereals	MP	17.56	20.84	1187	17.01	32.01	1869	-3	54	58
		AI	<b>215.11</b>	<b>299.58</b>	<b>1393</b>	<b>188.55</b>	<b>305.06</b>	<b>1623</b>	<b>-12</b>	<b>2</b>	<b>17</b>
7	Total Cereals	MP	33.47	37.41	1118	37.51	65.91	1757	12	76	57
		AI	<b>607.26</b>	<b>1133.61</b>	<b>1867</b>	<b>583.94</b>	<b>1230.99</b>	<b>2108</b>	<b>-4</b>	<b>9</b>	<b>13</b>
<b>B Pulses</b>											
1	Arhar	MP	4.06	2.57	632	5.57	5.2	934	37	103	48
		AI	<b>37.89</b>	<b>26.64</b>	<b>703</b>	<b>41.9</b>	<b>32.88</b>	<b>785</b>	<b>11</b>	<b>23</b>	<b>12</b>
2	Urd	MP	5.15	1.83	354	8.38	4.64	554	63	154	56
		AI	<b>23.05</b>	<b>10.90</b>	<b>473</b>	<b>27</b>	<b>14.72</b>	<b>545</b>	<b>17</b>	<b>35</b>	<b>15</b>
3	Moong	MP	0.83	0.27	328	1.49	0.72	483	80	165	47
		AI	<b>26.41</b>	<b>10.49</b>	<b>397</b>	<b>24.93</b>	<b>10.51</b>	<b>422</b>	<b>-6</b>	<b>0</b>	<b>6</b>
4	Kulthi	MP	0.23	0.07	301	0.16	0.06	375	-31	-14	25
		AI	<b>3.29</b>	<b>1.43</b>	<b>433</b>	<b>2.27</b>	<b>1.06</b>	<b>467</b>	<b>-31</b>	<b>-26</b>	<b>8</b>
6	Total Pulses*	MP	10.32	4.75	460	15.66	10.67	681	52	125	48
		AI	<b>111.49</b>	<b>57.33</b>	<b>514</b>	<b>111.93</b>	<b>65.52</b>	<b>585</b>	<b>0</b>	<b>14</b>	<b>14</b>
<b>*Total Pulses incl.(Mothbean, Other &amp; Other Pulses)</b>											
<b>C. Oilseed</b>											
1	Soybean	MP	53.45	61.37	1148	58.45	61.91	1059	9	1	-8
		AI	<b>95.67</b>	<b>111.58</b>	<b>1166</b>	<b>112.51</b>	<b>117.26</b>	<b>1042</b>	<b>18</b>	<b>5</b>	<b>-11</b>
2	G.Nut	MP	2.00	2.56	1277	2.27	3.43	1511	13	34	18
		AI	<b>49.01</b>	<b>57.20</b>	<b>1167</b>	<b>42.01</b>	<b>57.18</b>	<b>1361</b>	<b>-14</b>	<b>0</b>	<b>17</b>
3	Sesamum/ Til	MP	2.46	1.12	456	3.37	1.66	493	37	48	8
		AI	<b>19.07</b>	<b>7.38</b>	<b>387</b>	<b>17.5</b>	<b>7.65</b>	<b>437</b>	<b>-8</b>	<b>4</b>	<b>13</b>
4	Niger/ Ramtil	MP	1.15	0.24	212	0.72	0.25	347	-37	3	64
		AI	<b>3.82</b>	<b>1.06</b>	<b>278</b>	<b>2.7</b>	<b>0.87</b>	<b>322</b>	<b>-29</b>	<b>-18</b>	<b>16</b>
5	Total Oilseeds	MP	59.07	65.30	1105	64.86	67.26	1037	10	3	-6
		AI	<b>182.19</b>	<b>193.73</b>	<b>1063</b>	<b>187.47</b>	<b>201.72</b>	<b>1076</b>	<b>3</b>	<b>4</b>	<b>1</b>
D	Cotton*	MP	6.44	13.15	347	5.66	19.06	572	-12	45	65
		AI	<b>104.73</b>	<b>280.76</b>	<b>456</b>	<b>119.75</b>	<b>335.02</b>	<b>476</b>	<b>14</b>	<b>19</b>	<b>4</b>
<b>* Thousand bales of 170 kgs each.</b>											

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 XI<sup>th</sup> Plan period and XII<sup>th</sup> Plan period reveal that the NFSM interventions since 11<sup>th</sup> Plan has paid dividends in the production and yield of Paddy which is 105% and 59% higher during XII<sup>th</sup> 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.

## 8.2 RABI CROPS

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

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

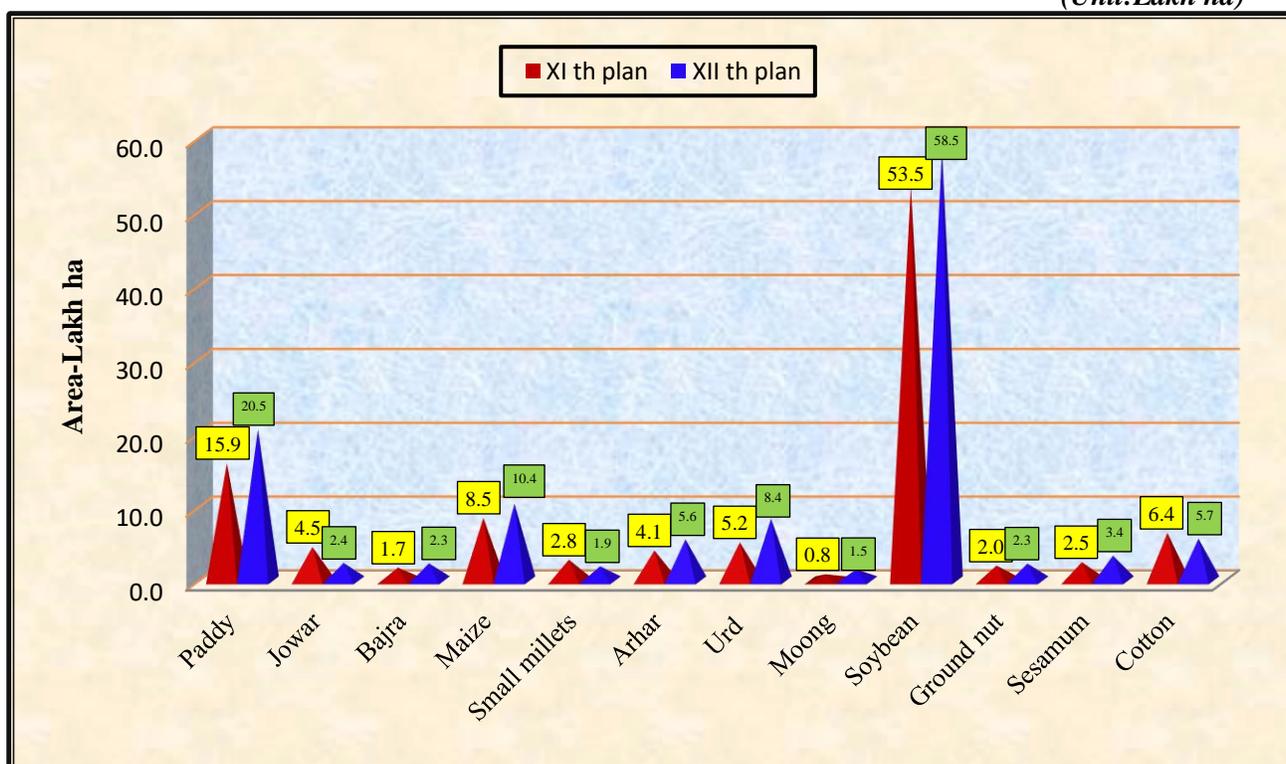
Source: DES, M/A, GoI ( XII<sup>th</sup> Plan\* : Average of 2012-13 to 2016-17)

**Rabi Impact Analysis:** The comparative analysis of crop performance during the XI<sup>th</sup> Plan period and XII<sup>th</sup> plan reveal that the NFSM interventions since 11<sup>th</sup> Plan has paid dividends in area, production and yield of Wheat which is 36%, 96% and 44% higher during XII<sup>th</sup> 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: XI<sup>th</sup> & XII<sup>th</sup> PLAN – MADHYA PRADESH

### AREA

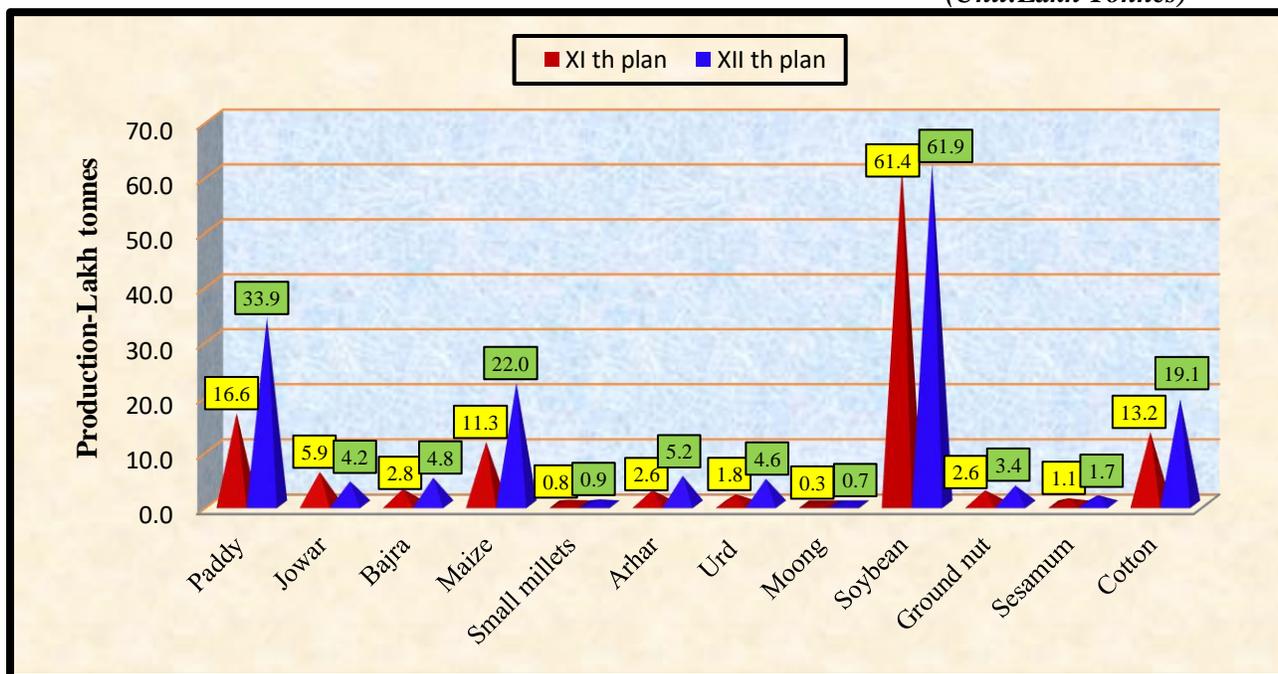
(Unit:Lakh ha)



**Fig. 01: Crop Coverage: (XI<sup>th</sup> Plan) and (XII<sup>th</sup> Plan)**

## PRODUCTION

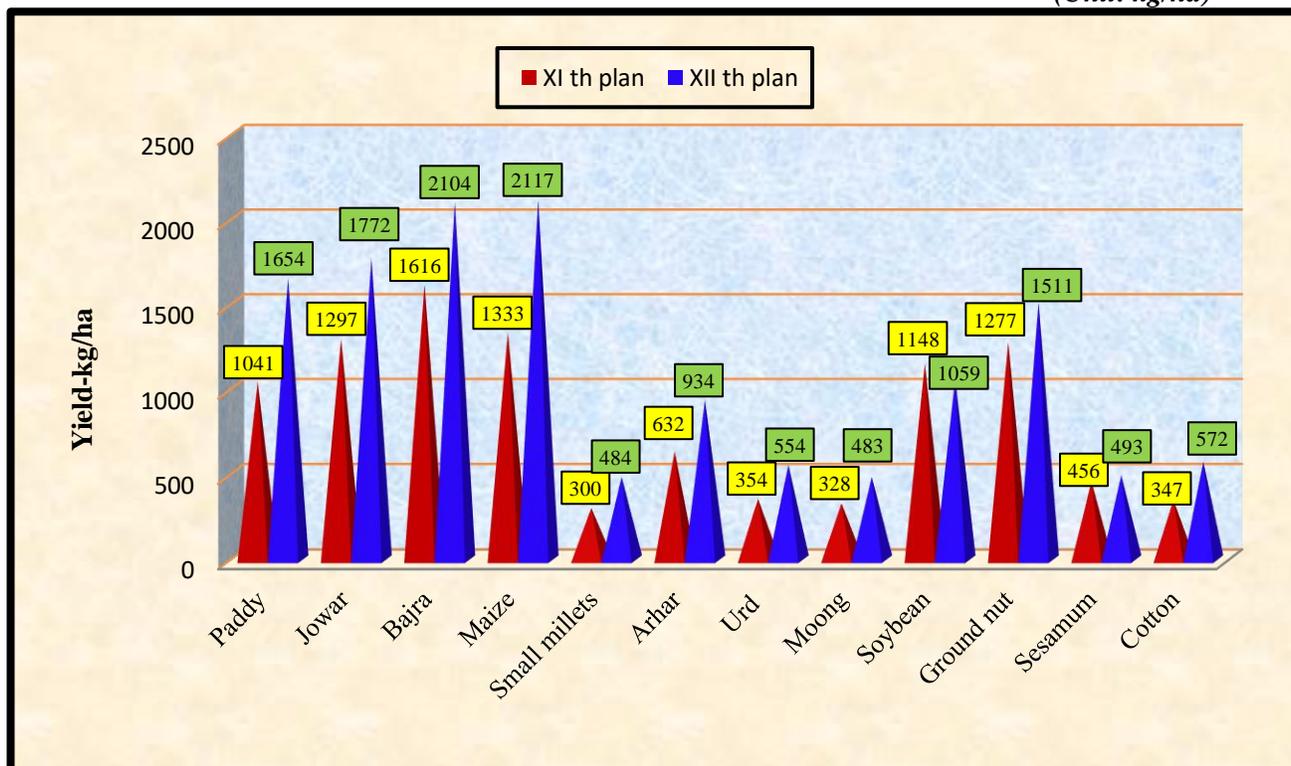
(Unit:Lakh Tonnes)



**Fig. 02: Production: (XI<sup>th</sup> Plan) (XII<sup>th</sup> Plan)**

## YIELD

(Unit: kg/ha)



**Fig. 03: Yield: XI<sup>th</sup> Plan and XII<sup>th</sup> Plan**

# RABI CROP SCENARIO: XI<sup>th</sup> & XII<sup>th</sup> PLAN – MADHYA PRADESH

## AREA

(Unit: Lakh ha)

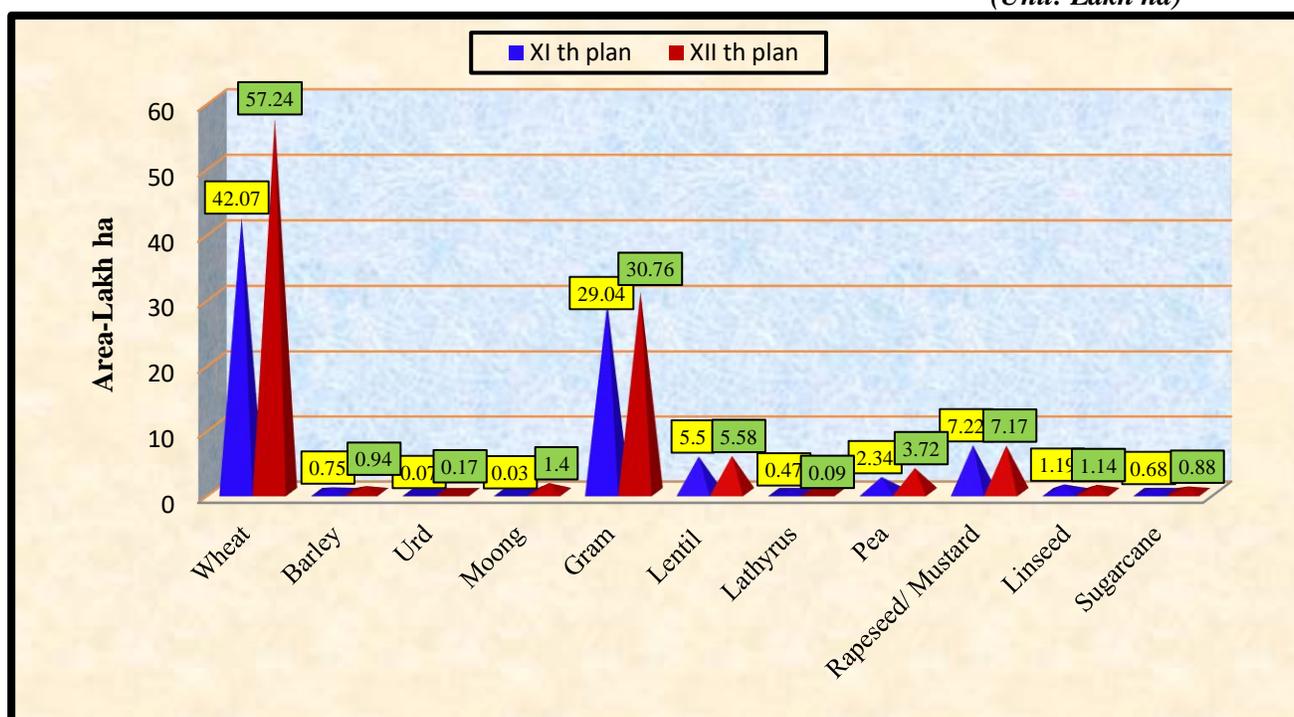


Fig. 04: Crop Coverage: XI<sup>th</sup> Plan and XII<sup>th</sup> Plan

## PRODUCTION

(Unit: Lakh Tonnes)

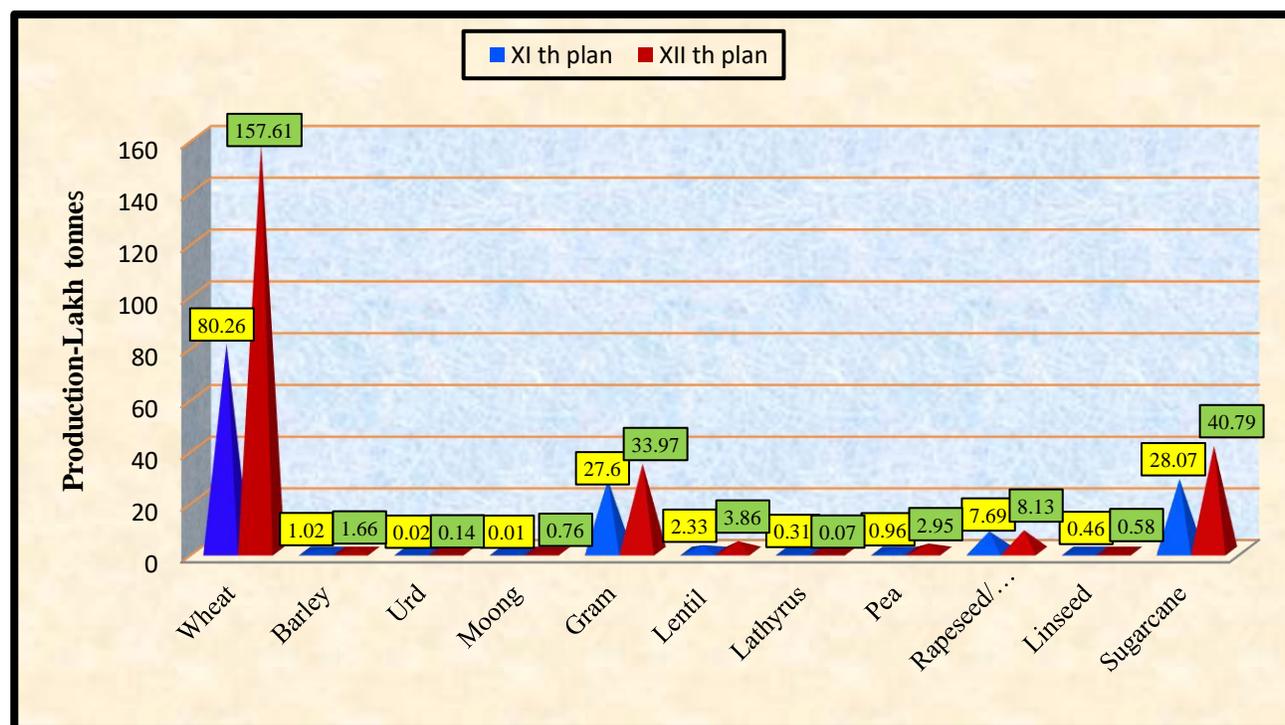
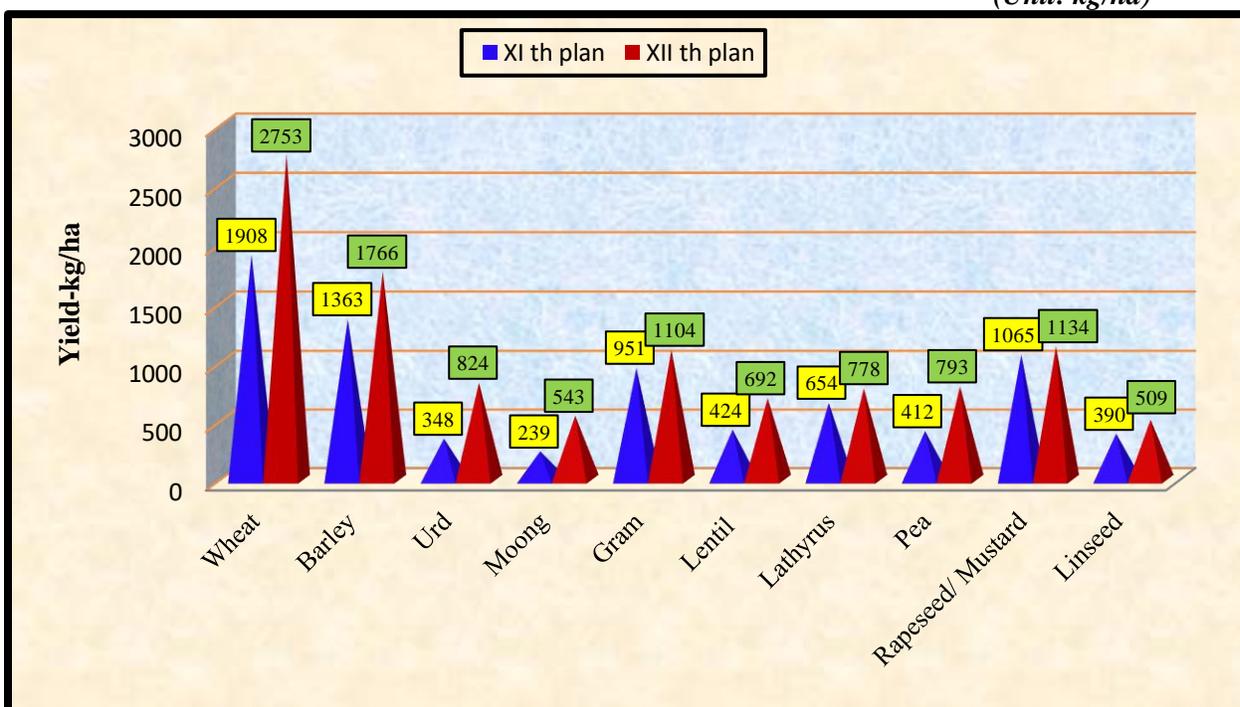


Fig. 05: Production: XI<sup>th</sup> Plan and XII<sup>th</sup> Plan

## YIELD

(Unit: kg/ha)



**Fig. 06: Yield: XI<sup>th</sup> Plan and XII<sup>th</sup> Plan**

### 9. MAJOR CROP: XII<sup>th</sup> PLAN & POST FIVE YEAR PLAN ANALYSIS

The comparative analysis of the area, production and yield in XII<sup>th</sup> plan and beyond the plan in year 2017-18 (Table 6.1 & 6.2) shows an increasing trend in the area, production and productivity in the pulses crops in the MP state and in all India. Crop diversion from cereal and oilseed to pulses is seen in all India and MP state.

#### 9.1 KHARIF CROPS

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

S. N.	Crops	State/ AI	XII <sup>th</sup> Plan*			Post five year Plan (2017-18) #			Increase/decrease over XII <sup>th</sup> Plan		
			A	P	Y	A	P	Y	A	P	Y
<b>A</b>	<b>Cereals</b>										
1	Paddy	MP	20.50	33.9	1654	20.23	40.95	2024	-1	21	18
		AI	<b>395.39</b>	<b>925.93</b>	<b>2342</b>	<b>393.52</b>	<b>974.95</b>	<b>2478</b>	<b>-0.5</b>	<b>5</b>	<b>5</b>
2	Jowar	MP	2.37	4.2	1772	2.70	5.70	2111	14	36	16
		AI	<b>22.34</b>	<b>22.63</b>	<b>1013</b>	<b>18.99</b>	<b>21.00</b>	<b>1106</b>	<b>-15</b>	<b>-7</b>	<b>8</b>
3	Bajra	MP	2.3	4.84	2104	3.10	7.55	2435	35	56	14
		AI	<b>74.03</b>	<b>89.95</b>	<b>1215</b>	<b>73.83</b>	<b>91.31</b>	<b>1237</b>	<b>-0.3</b>	<b>2</b>	<b>2</b>
4	Maize	MP	10.41	22.04	2117	13.17	34.04	2585	27	54	18
		AI	<b>74.22</b>	<b>170.67</b>	<b>2300</b>	<b>76.23</b>	<b>202.43</b>	<b>2656</b>	<b>3</b>	<b>19</b>	<b>13</b>
5	Small millet	MP	1.9	0.92	484	1.48	1.44	973	-22	57	50
		AI	<b>6.59</b>	<b>4.17</b>	<b>633</b>	<b>5.25</b>	<b>4.36</b>	<b>830</b>	<b>-20</b>	<b>5</b>	<b>24</b>
6	Kha. Coarse Cereals	MP	17.01	32.01	1869	20.45	48.74	2383	20	52	22
		AI	<b>188.55</b>	<b>305.06</b>	<b>1623</b>	<b>186.29</b>	<b>338.87</b>	<b>1819</b>	<b>-1</b>	<b>11</b>	<b>11</b>
7	Total Cereals	MP	37.51	65.91	1757	40.68	89.69	2205	8	36	20
		AI	<b>583.94</b>	<b>1230.99</b>	<b>2108</b>	<b>579.81</b>	<b>1313.82</b>	<b>2266</b>	<b>-1</b>	<b>7</b>	<b>7</b>

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

S. N.	Crops	State/ AI	XII <sup>th</sup> Plan*			Post five year Plan (2017-18) #			Increase/decrease over XII <sup>th</sup> Plan		
			A	P	Y	A	P	Y	A	P	Y
<b>B</b>	<b>Pulses</b>										
1	Arhar	MP	5.57	5.2	934	6.47	8.39	1297	16	61	39
		AI	<b>41.9</b>	<b>32.88</b>	<b>785</b>	<b>44.31</b>	<b>42.54</b>	<b>960</b>	<b>6</b>	<b>29</b>	<b>22</b>
2	Urd	MP	8.38	4.64	554	17.89	12.99	726	113	180	31
		AI	<b>27</b>	<b>14.72</b>	<b>545</b>	<b>44.95</b>	<b>28.37</b>	<b>631</b>	<b>66</b>	<b>93</b>	<b>16</b>
3	Moong	MP	1.49	0.72	483	2.28	1.37	601	53	90	24
		AI	<b>24.93</b>	<b>10.51</b>	<b>422</b>	<b>32.86</b>	<b>14.38</b>	<b>438</b>	<b>32</b>	<b>37</b>	<b>4</b>
5.	Total Pulses*	MP	15.66	10.67	681	26.68	22.82	855	70	114	26
		AI	<b>111.93</b>	<b>65.52</b>	<b>585</b>	<b>140.83</b>	<b>93.45</b>	<b>664</b>	<b>26</b>	<b>43</b>	<b>13</b>
	<i>*Total Pulses incl.(Kulthi, Mothbean &amp; Other Pulses)</i>										
<b>C.</b>	<b>Oilseed</b>										
1	Soybean	MP	58.45	61.91	1059	50.10	53.21	1062	-14	-14	0.3
		AI	<b>112.51</b>	<b>117.26</b>	<b>1042</b>	<b>104.71</b>	<b>109.80</b>	<b>1049</b>	<b>-7</b>	<b>-6</b>	<b>1</b>
2	G.Nut	MP	2.27	3.43	1511	2.18	3.38	1550	-4	-1	3
		AI	<b>42.01</b>	<b>57.18</b>	<b>1361</b>	<b>41.02</b>	<b>75.40</b>	<b>1838</b>	<b>-2</b>	<b>32</b>	<b>35</b>
3	Sesamum/ Til	MP	3.37	1.66	493	4.24	1.87	441	26	13	-11
		AI	<b>17.5</b>	<b>7.65</b>	<b>437</b>	<b>15.62</b>	<b>7.51</b>	<b>481</b>	<b>-11</b>	<b>-2</b>	<b>10</b>
4	Niger/ Ramtil	MP	0.72	0.25	347	0.61	0.21	344	-15	-16	-1
		AI	<b>2.7</b>	<b>0.87</b>	<b>322</b>	<b>2.25</b>	<b>0.74</b>	<b>329</b>	<b>-17</b>	<b>-15</b>	<b>2</b>
5	Total Oilseeds	MP	64.86	67.26	1037	57.23	58.73	1026	-12	-13	-1
		AI	<b>187.47</b>	<b>201.72</b>	<b>1076</b>	<b>173.19</b>	<b>209.96</b>	<b>1212</b>	<b>-8</b>	<b>4</b>	<b>13</b>
<b>D</b>	<b>Cotton*</b>	MP	5.66	19.06	572	6.03	18.69	527	7	-2	-8
		AI	<b>119.75</b>	<b>335.02</b>	<b>476</b>	<b>124.29</b>	<b>348.88</b>	<b>477</b>	<b>4</b>	<b>4</b>	<b>0.2</b>
	<i>* Thousand bales of 170 kgs each.</i>										

**9.2 RABI CROPS**

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

S. N.	Crops	State/ AI	XII <sup>th</sup> Plan*			Post five year Plan 2017-18#			Increase/decrease over XII <sup>th</sup> Plan		
			A	P	Y	A	P	Y	A	P	Y
<b>A.</b>	<b>Cereals</b>										
1	Wheat	MP	57.24	157.61	2753	53.16	159.11	2993	-7	1	9
		AI	<b>306.29</b>	<b>933.36</b>	<b>3047</b>	<b>295.76</b>	<b>997.00</b>	<b>3371</b>	<b>-3</b>	<b>7</b>	<b>11</b>
2	Barley	MP	0.94	1.66	1766	1.30	2.98	2292	38	80	30
		AI	<b>6.64</b>	<b>16.76</b>	<b>2524</b>	<b>6.62</b>	<b>17.73</b>	<b>2678</b>	<b>-0.3</b>	<b>6</b>	<b>6</b>
7	Total Cereals	MP	58.28	159.56	2738	54.94	163.71	2980	-6	3	9
		AI	<b>408.44</b>	<b>1182.3</b>	<b>2895</b>	<b>395.89</b>	<b>1282.12</b>	<b>3239</b>	<b>-3</b>	<b>8</b>	<b>12</b>
<b>B.</b>	<b>Pulses</b>										
1	Urd	MP	0.17	0.14	824	0.35	0.49	1400	106	250	70
		AI	<b>8.14</b>	<b>6.1</b>	<b>749</b>	<b>9.44</b>	<b>7.25</b>	<b>768</b>	<b>16</b>	<b>19</b>	<b>3</b>
2	Moong	MP	1.4	0.76	543	2.06	1.29	626	47	70	15
		AI	<b>9.62</b>	<b>5.6</b>	<b>582</b>	<b>9.72</b>	<b>5.71</b>	<b>587</b>	<b>1</b>	<b>2</b>	<b>1</b>
4	Gram	MP	30.76	33.97	1104	35.90	45.95	1280	17	35	16
		AI	<b>89.45</b>	<b>84.25</b>	<b>942</b>	<b>105.61</b>	<b>112.29</b>	<b>1063</b>	<b>18</b>	<b>33</b>	<b>13</b>
5	Lentil	MP	5.58	3.86	692	5.96	6.79	1139	7	76	65
		AI	<b>13.77</b>	<b>10.41</b>	<b>756</b>	<b>15.54</b>	<b>16.07</b>	<b>1034</b>	<b>13</b>	<b>54</b>	<b>37</b>
8	*Total Pulses	MP	41.86	41.8	999	48.00	58.30	1215	15	39	22
		AI	<b>140.84</b>	<b>122.9</b>	<b>873</b>	<b>159.10</b>	<b>158.90</b>	<b>999</b>	<b>13</b>	<b>29</b>	<b>14</b>
	<i>*Total Pulses include Pea, Lathyrus and other pulses</i>										

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

S. N.	Crops	State/ AI	XII <sup>th</sup> Plan*			Post five year Plan 2017-18#			Increase/decrease over XII <sup>th</sup> Plan		
			A	P	Y	A	P	Y	A	P	Y
<b>C. Oilseed and commercial crops</b>											
1	Rapeseed /Mustard	MP	7.17	8.13	1134	7.48	9.76	1305	4	20	15
		AI	<b>61.25</b>	<b>73.8</b>	<b>1205</b>	<b>59.59</b>	<b>83.22</b>	<b>1397</b>	<b>-3</b>	<b>13</b>	<b>16</b>
2	Linseed	MP	1.14	0.58	509	1.62	0.86	531	42	48	4
		AI	<b>2.93</b>	<b>1.51</b>	<b>515</b>	<b>3.28</b>	<b>1.75</b>	<b>534</b>	<b>12</b>	<b>16</b>	<b>4</b>
3	Total Oilseeds	MP	8.45	8.8	1041	9.19	10.76	1171	9	22	12
		AI	<b>77.32</b>	<b>93.74</b>	<b>1212</b>	<b>73.26</b>	<b>103.12</b>	<b>1408</b>	<b>-5</b>	<b>10</b>	<b>16</b>
D.	Sugarcane	MP	0.88	40.79	46352	0.98	54.30	55408	11	33	20
		AI	<b>48.84</b>	<b>3420.38</b>	<b>70032</b>	<b>47.32</b>	<b>3769.05</b>	<b>79650</b>	<b>-3</b>	<b>10</b>	<b>14</b>

Source: DES, M/A, GoI ( XII<sup>th</sup> Plan\* : Normal 2012-13 to 2016-17 and #IV<sup>th</sup> Advance Estimates 2017-18)**10. CROP DEVELOPMENT SCHEMES OPERATIONAL IN MP****All CSS in Madhya Pradesh: Allocation & Expenditure 2018-19**

(Unit: Rs. in Lakh; Up to Jan., 2019)

Schemes	Allocation			Available Fund (CS)			Expenditure			% Utili. (CS) Ava.
	Central	State	Total	Release	Revali.	Total	Central	State	Total	
<b>NFSM</b>										
Pulses	16717.40	11144.94	27862.34	0.00	16717.4	16717.4	7575.87	5050.58	12626.46	45
Addl. Pulses	9900.00	6600.00	16500.00	9900.00	0.00	9900.00	3001.85	2001.23	5003.08	30
Inter-cropping with Sugarcane	13.77	9.18	22.95	13.77	0.00	13.77	0.00	0.00	0.00	0
<b>Total Pulses</b>	<b>26631.17</b>	<b>17754.12</b>	<b>44385.29</b>	<b>9913.77</b>	<b>16717.4</b>	<b>26631.17</b>	<b>10577.72</b>	<b>7051.81</b>	<b>17629.54</b>	<b>40</b>
Paddy	912.04	608.02	1520.06	0.00	541.27	541.27	174.49	116.32	290.81	32
Wheat	1969.76	1313.17	3282.93	0.00	1385.41	1385.41	590.38	393.59	983.97	43
Coarse Cereals	611.50	407.66	1019.16	0.00	381.51	381.51	315.84	210.56	526.4	83
Nutri-Cereals	675.18	450.12	1125.30	506.38	0.00	506.38	91.91	61.28	153.19	18
Cotton	73.50	49.00	122.50	0.00	73.50	73.50	0.28	0.18	0.46	0
Sugarcane	30.75	20.50	51.25	19.59	1.04	20.63	6.12	4.08	10.20	30
Oil Seeds	3050.01	2033.34	5083.35	500.00	1426.54	1926.54	557.27	371.51	928.78	29
<b>NFSM Total</b>	<b>33953.91</b>	<b>22635.93</b>	<b>56589.84</b>	<b>10939.74</b>	<b>20526.67</b>	<b>31466.41</b>	<b>12314.01</b>	<b>8209.33</b>	<b>20523.35</b>	<b>39</b>
RKVY	17697.04	11798.02	29495.06	8652.62	8256.7	16909.32	8401.9	5601.27	14003.17	50
SHC	2383.83	1589.22	3973.05	2097.56	560.44	2658	1577.86	1051.9	2629.76	59
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	5816.7	1984.93	0.00	1984.93	2826.24	1884.16	4710.40	142
SMSP	6623.9	4415.94	11039.84	1499.88	1233.84	2733.72	1553.96	1035.97	2589.93	57
NMSA-RAD	807.76	538.5	1346.26	0.00	300.74	300.74	53.69	35.8	89.49	18
<b>Grand Total</b>	<b>66807.62</b>	<b>44538.40</b>	<b>111346.02</b>	<b>27646.70</b>	<b>32692.33</b>	<b>60339.03</b>	<b>26727.66</b>	<b>17818.43</b>	<b>44546.10</b>	<b>44</b>

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

**All State Schemes in Madhya Pradesh: Allocation & Expenditure 2018-19**

(Unit: Rs. in Lakh)

State Schemes/district	Beneficiary	Objective/Provision	Alloc.	Exp.	%
Suraj Dhara Yojana (All districts)	Small & Marginal farmers of SC and ST	<ul style="list-style-type: none"> <li>Exchange of non-beneficiary seed with beneficiary crop (Pulses/oilseed) crops (Up to 1 ha). If farmer wants the other crop seed then the farmer has to pay the 25% of the seed cost in form of seed or cash.</li> <li>Distribution of certified seed for 1/10<sup>th</sup> area of owned land of farmer at 75% subsidy rate.</li> </ul>	5541.60	4895.34	88
Annapurna Yojana (All district)		<ul style="list-style-type: none"> <li>Same as Suraj dhara except, if farmer wants the other crop seed then the farmer are eligible for subsidy amount of 75% or max. Rs. 1500 and has to pay the 25% of the seed cost in form of seed or cash.</li> </ul>	5533.05	4794.33	87
Mukyamantri Khet Tirtha Yojana	All the progressive farmers	<ul style="list-style-type: none"> <li>Intrastate and interstate training related to new technologies is provided to the progressive farmers.</li> <li>Assistance provided to develop Govt. and semi Govt. area as model area for Kharif, Rabi and Zaid crops.</li> </ul>	3384.82	2596.52	77
MAPWA Yojana	Female farmers	<ul style="list-style-type: none"> <li>It is a skill oriented agriculture training and extension project for small and marginal farm women who work in their farm.</li> <li>It consist of different components as village based Training programme, follow-up visit, farm women conference, pre-seasonal training, crop demonstration, exposure visit, link worker training and formation of MAPWA Group.</li> </ul>	556.30	495.46	89
Rastriya Biogas top-up Yojana	All farmers	<ul style="list-style-type: none"> <li>Main objective is to provide easy and economical fuel for cooking and other household purposes and to use biogas by product i.e. manure for farm</li> <li>Subsidy-50% or max. Rs. 4000 on 1 cubic meter and 50% or max. Rs. 8000 on 2 -4 cubic meters biogas plant construction for Small, Marginal and landless farmers under SC &amp; ST category and Rs. 2700 for general category farmers</li> <li>For toilets plants Rs.1000 / - per plant is provided</li> </ul>	386.41	71.07	18
State micro-irrigation Mission	All the farmers with own land	<ul style="list-style-type: none"> <li>Subsidy for Sprinkler set- 80 % or max. Rs. 12000/ha; Drip Irrigation- 80 % or max. Rs. 40000/ha subsidy and Mobile rain gun- 50% or max. Rs. 15000/ha</li> </ul>	1826.16	833.25	46
Nalkoop Khanan Yojana (All districts except Sajapur and Indore)	SC and ST farmers	<ul style="list-style-type: none"> <li>75% or max. Rs. 25,000 subsidy on successful /unsuccessful nalkoop khana</li> <li>75% or max. Rs. 15,000 subsidy on pump set establishment of successful nalkoop</li> </ul>	1727.44	469.07	27

State Schemes/district	Beneficiary	Objective/Provision	Alloc.	Exp.	%
Information technology for extension of agriculture technologies	All farmers	<ul style="list-style-type: none"> <li>Extension of new technologies in agriculture through digital/e-tech. to farmers.</li> <li>The programme includes technical information provided for 12 services like Seller of seed, fertilizer and plant protection chemicals, soil health, best farming activities, weather forecast, agricultural cost, certification, export-import, marketing infrastructure, evaluation and monitoring, irrigation, drought, fishery and animal husbandry.</li> <li>The above services are available at State (Headquater), Division(10), district (51), Agriculture extension and training center (19), Sub-divisional Agriculture officer office (100), Assistant soil conservation officer office (81), Seed/fertilizer/pesticide/soil testing laboratory (22), Soil survey officers office (08) and Block development office (313) and also include the horticulture, food processing, animal husbandry and fishery department.</li> </ul>	476.50	310.22	65
Extension programme related to Seed Production programme	All farmers	<ul style="list-style-type: none"> <li>Financial assistance provided for extension of new technology through farmer advisory, technical films, telephonic services , tele advertisement etc.</li> </ul>	326.54	224.44	69
Krishak Samridhi Yojana	All farmers	<ul style="list-style-type: none"> <li>Incentives provided to farmers on MSP for increasing crop production and promotion of FAQ (Fair Average Quality) production of crop.</li> </ul>	438500.00	438500.00	100
Bhavantar Bhugtan Yojana	All farmers	<ul style="list-style-type: none"> <li>The scheme launched in October 2017 with objective to provide the compensation to farmers for agriculture products whenever its price fall below the announced Minimum support price (MSP) and thereby protecting them from losses suffered on account of distress sale.</li> <li>The state government in first year introduced the scheme for eight crops mainly in the oilseeds (Soybean, Groundnut, Sesame and Ramtil) and pulses category (Urd, Tur and Mung) and Maize in cereal.</li> <li>Later in 2018 the scheme was extended to total 13 Kharif crops and further for Rabi crops.</li> </ul>	38500.00	25800.47	67
Jai Kisan fasal Rin Mafi Yojana	Small and Marginal farmers	<ul style="list-style-type: none"> <li>The loan waiving of upto Rs. 2 lakh</li> </ul>	172565.00	1134.59	1

## 11. CROPS DEVELOPMENT/EXTENSION SCHEMES OPERATIONAL IN VISITED DISTRICTS

(Unit: Rs. in Lakh)

CSS (07)	Vidisha			Ashoknagar			Rajgarh		
	Alloc.	Exp.	%	Alloc.	Exp.	%	Alloc.	Exp.	%
NFSM	794.00	669.40	84	379.23	69.918	18	906.61	189.53	21
NFSM-Oilseed	89.86	88.86	99	17.90	12.99	73	111.27	12.91	12
RKVY	111.45	60.00	54	25.32	23.56	93	91.90	51.55	56
SHC	80.76	70.91	88	46.45	43.68	94	-	-	-
PMKSY	78.29	68.15	87	48.70	42.65	88	115.54	26.78	23
NFSM-Ag. Eng.	45.00	44.97	100	-	-	-	-	-	-
RKVY-Ag. Eng.	21.00	20.97	100	-	-	-	-	-	-
ATMA	118.71	98.56	83	-	-	-	-	68.93	-
Sub-Mission seed Planting Material (Seed Village)	146.59	146.11	100	3205	30.15	1	-	-	-
NMSA (RAD)	3.14	0.51	16	2.07	2.07	100	-	-	-
<b>State Schemes (11)</b>									
Suraj Dhara Yojana	189.64	189.53	100	27.40	26.90	98	87.02	84.66	97
Annapurna Yojana	180.37	180.16	100	32.50	31.91	98	90.50	87.44	97
Mukyamantri Khet Tirtha Yojana	113.31	113.31	100	49.10	43.08	88	103.69	93.20	90
MAPWA Yojana	11.47	11.42	100	4.40	0.0	0	9.91	9.83	99
Rastriya Biogas top-up Yojana	3.70	0.25	7	4.20	0.13	3	7.50	1.65	22
State micro-irrigation Mission	33.69	5.88	17	11.00	6.00	55	21.92	7.08	32
Nalkoop Khanan Yojana	29.00	8.75	30	18.00	2.00	11	5.20	0.00	0
Agroforestry	12.26	0.00	0	10.63	0.16	2	-	-	-
Information technology	3.41	3.28	96	2.24	1.21	54	3.02	1.79	59
Seed Production programme	2.83	1.99	70	1.50	1.30	87	5.00	4.56	91
Krishak Samridhi Yojana	17780.40	17780.40	100	4135.88	4118.34	100	8269.54	8145.50	99

## 12. NFSM: PHYSICAL & FINANCIAL PROGRESS (2018-19)

(Upto Jan., 2019)

Table 3: Physical Progress: Pulses

Component	Pulses (51)			Additional Pulses			Total Pulses		
	T	A	%	T	A	%	T	A	%
Demo.(ha)	115500	120536	<b>104</b>	118000	80740	<b>68</b>	233500	201276	<b>86</b>
Prod. & dist. of Seeds (Qtls)	187450	58308	<b>31</b>	47450	0	<b>0</b>	234900	58308	<b>25</b>
RCT/Farm implements (Nos.)	19673	13081	<b>66</b>	-	-	-	19673	13081	<b>66</b>
CSBT (Nos)	2050	1609	<b>78</b>	-	-	-	2050	1609	<b>78</b>

**Table4: Financial Progress: Pulses****(Rs. in Lakh)**

Component	Pulses (51)			Additional Pulses			Total Pulses		
	T	A	%	T	A	%	T	A	%
Demo.	11745	6805.75	<b>58</b>	11520	4352.91	<b>38</b>	23265.00	11158.66	<b>48</b>
Prod. & dist. of Seeds	8518.75	2051.48	<b>24</b>	1980	0.00	<b>0</b>	10498.75	2051.48	<b>20</b>
RCT/Farm implements	776.84	1232.17	<b>159</b>	-	-		776.84	1232.17	<b>159</b>
CSBT	287.00	205.50	<b>72</b>	-	-		287.00	205.50	<b>72</b>

Note: RCT Expenditure included last year liabilities with current financial expenditure.

**Table5: Physical Progress: Cereals**

Component	Rice (08)			Wheat (16)			Coarse-cereal (22)			Nutri-cereal (24)		
	T	A	%	T	A	%	T	A	%	T	A	%
Demo.(ha)	7434	7037	<b>95</b>	17900	16783	<b>94</b>	11900	11266	<b>95</b>	7500	5118	<b>68</b>
Prod. & dist. of Seeds (Qtls)	7900	256.50	<b>3</b>	42434	2278.81	<b>5</b>	3800.60	1276	<b>34</b>	12429	45	<b>0.36</b>
RCT/Farm Implements(Nos)	5610	71.00	<b>1</b>	20617	134	<b>1</b>	-	-	-	46400	0	<b>0</b>
CSBT (Nos)	125	120	<b>96</b>	230	156	<b>68</b>	-	-	-	185	110	<b>59</b>

**Table6: Financial Progress: Cereals****(Rs. in Lakh)**

Component	Rice (08)			Wheat (16)			Coarse-cereal (22)			Nutri-Cereal (24)		
	T	A	%	T	A	%	T	A	%	T	A	%
Demo.	759.06	207.64	<b>27</b>	1755.00	781.62	<b>45</b>	714.00	480.07	<b>67</b>	450.00	135	<b>30</b>
Prod. & dist. of Seeds	370.00	1.51	<b>0.41</b>	707.28	27.14	<b>4</b>	305.16	46.33	<b>15</b>	389.39	0	<b>0</b>
RCT/Farm implements	153.50	29.63	<b>19</b>	335.95	54.71	<b>16</b>	-	-	-	260	0	<b>0</b>
CSBT	17.50	15.40	<b>88</b>	32.20	18.97	<b>59</b>	-	-	-	25.90	14.49	<b>56</b>

**Table7: Physical Progress: Commercial crops**

Component	Cotton (10)			Sugarcane (13)		
	T	A	%	T	A	%
Demo. & trial (ha)	1459	4	<b>0.27</b>	460	390.00	<b>85</b>
Distribution of Plant Protection chemical (ha)	-	-	-	1730	0	<b>0</b>
State level training (Nos.)	2	1	<b>50</b>	3	1	<b>33</b>

**Table8: Financial Progress: Pulses****(Rs. in Lakh)**

Component	Cotton (10)			Sugarcane (13)		
	T	A	%	T	A	%
Demo. & trial	121.70	0.06	<b>0.05</b>	41.40	9.80	<b>24</b>
Distribution of Plant Protection chemical	-	-	-	8.65	0	<b>0</b>
State level training	0.80	0.40	<b>50</b>	1.20	0.40	<b>33</b>

### 13. BRIEF OF VISIT/FIELD OBSERVATIONS

Place/Institution visited	Activity/Events	Brief Report
<b>District- Bhopal</b>		
ICAR- Indian Institute of Soil Science	Meeting with Dr. Ashok Patra, Director & Dr. A Shukla, PC (Micro-nutrients)	<ul style="list-style-type: none"> <li>• Discussed about the status of micro-nutrients in MP soils, major recommendations and about Mini Soil testing lab</li> <li>• Dr. A. K. Shivhare, Assistant Director also accompanied the team during Bhopal visit.</li> <li>• <i>District-wise micro-nutrients status has been developed by IISS; however, the crop cafeteria prescribed for cluster demonstration in MP, does not prescribed the micro-nutrient as one of the component and also its mandatory use according to recommendations.</i></li> </ul>
ICAR-CIAE	Meeting with Dr. C. P. Yadav, Area Manager & Dr. Sher Singh, DGM, IFFDC	<ul style="list-style-type: none"> <li>• The Director CIAE was away in Delhi, however, had a discussion with the IFFDC team, the NFSM-Minikit component implementation stakeholder. The IFFDC was running a trainer's training programme at CIAE. They were advised to provide the performance report of some of the minikits as a sample monitoring by them.</li> </ul>
ICAR-IIPR, Phanda	Meeting & field visit with Dr. Archana Singh, In-charge NFSM Seedhub/EBSP	<ul style="list-style-type: none"> <li>• The team visited the Seed hub and EBSP infrastructure created under NFSM (Godown/SPU/Tractor/Rotavator/ Boundary Wall/Threshing floor etc.)</li> <li>• <i>Chickpea (EBSP Cv. – RVG 202, 25 ha area) and lentil (EBSP Cv. IPL 316, 12 ha) crops were in good condition.</i></li> </ul>
District - Bhopal	Meeting with Mr. M. S. Devke, DDA (09406637546) & Mr. Billaiya, Joint Director (09424386019)	<ul style="list-style-type: none"> <li>• The area coverage under wheat and Rabi Pulses in the district are 120 and 23 thousand ha till visit date. The Status of utilization and scheme implementation in the district was reviewed.</li> <li>• <i>Seed distribution of wheat (Var.-HI 8663, (Posan)); Certified Seed Production programme of wheat in 44ha (foundation seed of Pusa Tejas &amp; Pusa Ujala) and Gram (JG-14) has been taken under RKVY.</i></li> <li>• Poor implementation under NMSA-RAD was reported.</li> <li>• <b>DBT (Direct Benefit Transfer)</b>-This year expenditure is increasing under Cluster demonstration (Cv.-JG-14, RVG-203, GNG-1958), however, JG-130 is the most popular variety.</li> <li>• <b>PMKSY</b>-Sprinkler targets are likely to be achieved. Drip has no scope in Bhopal.</li> </ul>

Place/Institution visited	Activity/Events	Brief Report
Vill.- Hataikhedi, Block-Phanda	CFLD of Gram	<ul style="list-style-type: none"> <li>•Farmer Shri Om Prakash (09926584707) sown gram var.-RVG-201 on 17.11.2018 @ 75 kg/ha seed &amp; used ZnSo<sub>4</sub>. <i>Cold waves have damaged flowers.</i></li> <li>•Farmer Shri Mukesh Tyagi (09977132503) sown gram var.-RVG-201 on 21.11.2018, which is comparatively safer from cold waves as it was at its reproductive phase.</li> <li>•<i>The team highly recommended the timely sowing and dry sowing for gram under the fluctuating weather situation and to skip cold waves and frost etc.</i></li> </ul>
Vill.-Barkhedi, Block-Berasia	Organic farming of wheat and gram	<ul style="list-style-type: none"> <li>•The organic farming of wheat var.-HI--8663 (Poshan) and C-306 were at milking stage.</li> <li>•<i>The gram crop was at flowering stage and got affected due to cold waves. The flowering stage is most susceptible to cold waves.</i></li> <li>•<i>The team suggested to spray Thiourea @ 500 ppm (500 gm in 1000 litre water) to protect cold waves/frost and also repeat the spray after 15 days if low temperature conditions persist/recurs.</i></li> <li>•<i>Apply light and frequent irrigation to protect the crops from cold /frost injury.</i></li> <li>•<i>Keep the fields weed free as the weeds blocks the sunlight and heating of the soil during daytime</i></li> <li>•The team also recommended that 1000 seed weight should be considered for calculating seed rate for an acre if it is 40 gram then the per acre seed should be 40 kg/acre.</li> <li>•<i>In MP, 30-35% of total wheat area is covered with the varieties of WRC, IARI, Indore and HI-1531 (Harshita), sharbati wheat used by Ashirwad Atta. Whereas, the HI-1479 (Swarna) is now outdated but it is famous for its white colour chapatti making quality.</i></li> </ul>
<b>District- Vidisha</b>		
Vill.-Dabar, Block-Vidisha	Beneficiary of water carrying pipe	<ul style="list-style-type: none"> <li>•Met with Shri K. R. Mehar (09584070428) SADO and farmer Aman Singh, Beneficiary (SC) of pumpset has got 30 pipes of Parag Company with the total cost of Rs. 23000 (Subsidy amount-Rs. 10000).</li> <li>•Farmer has grown HI-1544(Purna) wheat variety with the support of irrigation pipe and expected a yield of 50 Qtls/ha.</li> </ul>

Place/Institution visited	Activity/Events	Brief Report
Vill.-Dhaturia, Block-Vidisha	Meeting in block office and beneficiaries of sprinkler set	<ul style="list-style-type: none"> <li>• Team met with the sprinkler set beneficiaries Shri Taran Singh and Shri Virendra Singh.</li> <li>• <i>The online portal for RCT/MIS, sprinkler is kept open uptill the fulfilment of target.</i></li> <li>• <i>60% RAEO posts are vacant and out of 03 SADO all are vacant, hence poor staff strength is a major issue.</i></li> <li>• <i>Mobility is another major constraint. It is suggested that against Krishi Karman Awards funds, the Govt. of MP may also provide District/ Block level mobility, as has been done in Chhattisgarh.</i></li> <li>• Dealers are helping in online submission of applications of farmers. This practice hampers the poor/remote area farmers to take benefits of RCT.</li> <li>• <i>Here, the flag smut was found in wheat.</i></li> <li>• <i>The team recommended that sprinkler irrigation during flowering stage of wheat ie. 60-65 days in central India and 80-85 days in North India should not be advised as it induces the flower drops. Suitable advisories should be circulated during crop season from time to time.</i></li> </ul>
Vill.- Khari, Block-Vidisha	Cluster demonstration of gram and sprinkler set distribution	<ul style="list-style-type: none"> <li>• Met with another sprinkler set beneficiary Shri Gajraj Singh (08817806474).</li> <li>• Here, Farmer Shri. Ajay Raghuvanshi (09425602957) informed that <i>total gram area sown is 2.35 Lha which was affected from cold waves/frost and reported up to 40% crop loss.</i></li> <li>• <i>Farmers are unhappy with the GST regime on pipe etc. and have requested to exclude these from GST. The farmers have raised the issue of higher cost per pipe of 20 feet each. The rate is Rs. 930 per pipe with subsidy (Including GST) while it is Rs. 700/- per pipe in the open market without GST.</i></li> <li>• <i>Latest varieties and agronomic advisories should be given to the farmers.</i></li> <li>• <i>It is felt that more training be organised for farmers to educate them.</i></li> <li>• Cluster demonstration of chickpea var.-JG-14 was done in 4 ha land of Shri Narendra Singh Raghuvanshi (09993016444) sown on 26.10.2018 after Palewa; the farmer used sulphur, boron and Triazophos; the field was heavily affected with wilt at the later stage.</li> </ul>

Place/Institution visited	Activity/Events	Brief Report
Vill.- Amber, Block-Gyaraspur	Cluster demonstration of wheat & chickpea , sprinkler set distribution and onion cultivation	<ul style="list-style-type: none"> <li>• The village is one of the identified under Kisan Kalyan Abhiyan, Phase-I village where vermi-pit and horticultural action were also conducted.</li> <li>• Visited onion field of Shri Tulsi Ram.</li> <li>• Shri G. S. Chaudhary, SADO, Gyaraspur (09179011130) accompanied there.</li> <li>• The farmer is also sprinkler set beneficiary and use sprinkler irrigation in field; Cluster demonstration of wheat var.-HI-4106 was organized on field of Shri Daya Singh Lodhi.</li> <li>• The crop was sown late on 27.11.2018, chloropyriphos was used to control termites; the crop stage was in between the booting to late jointing and flowering stage. The booting (Gavot) stage (Between late jointing to flowering) is the most critical stage for frost, hence farmers were advised to use irrigation; the overall crop condition was good.</li> <li>• <i>The farmer has been advised to avoid indiscriminate use of chemical pesticides if loss per cent is 5% i.e. ETL level, then only the pesticide should be used.</i></li> <li>• <i>The team also recommended the use of Tropicanaazole @ 1g/kg seed for wheat seed treatment instead of bavistin, which some farmers are using.</i></li> <li>• The farmer has also started taking paddy (var.-PB-1, fragrant rice instead of soybean which has yielded 55qtls/ha and also receive good prices.</li> <li>• Shri D. S. Raghuvanshi, RAEO (09424406265) who is responsible for 50 villages in block Gyaraspur, requested the need for strengthening of staff at grass root level.</li> <li>• Cluster demonstration of wheat var.-HI-8663 (Poshan) sown on 20.11.2018 on the field of Farmer Shri. Hari Singh Lodhi. The overall crop condition is excellent.</li> <li>• <i>The NLMT advised to organize a field day/ farmer's trainings on cluster demonstration site and the impact analysis should be maintained in the register.</i></li> <li>• The team visited the chickpea (var.-JG-322) demonstration field of Shri Gajraj Singh Lodhi sown on 20.11.2018; the crop condition was excellent.</li> <li>• In this field <i>heavy soil erosion was noticed; farmers have been advised to use soil conservation technology with more demonstrations by SDA to reduce soil erosion.</i></li> </ul>

Place/Institution visited	Activity/Events	Brief Report
Vill.- Amber, Block-Gyaraspur, Vidisha	Sprinkler set distribution	<ul style="list-style-type: none"> <li>• Met with Gajraj, beneficiary of 5HP motor pump (CRI Co) under NFSM with subsidy of Rs. 10000/- , the farmer lauded the support of NFSM.</li> </ul>
Vill.- Kanjla, Block-Gyaraspur	Custom Hiring Center (CHC) Organic farming and holistic farming	<ul style="list-style-type: none"> <li>• Visited Balaji Custom Hiring Centre, Kanjla established in 2014-15 under CHC-RKVY at the cost of Rs. 25 lakh.</li> <li>• Met with farmers Shri Ketan Aggarwal (9977445800) &amp; Shri Prakash Chand Aggarwal (9826244963) doing organic farming. They were also involved in other major activities like Vermicompost production, cattle rearing and bee keeping etc.</li> <li>• Here, an Onion storage structure was also established in 2017-18.</li> </ul>
Vill.-Kewala, Block- Gyaraspur	Holistic farming/integrate farming Cultivation of DBW-173 wheat variety Distribution of Solar tube well Pump under Mukhyamantri Solar Pump Yojna	<ul style="list-style-type: none"> <li>• Met with Shri Nitin Dangi (9827690660), who has been doing <i>holistic farming/integrated farming</i> including different components like, Poultry (Breed-Kadaknath), Dairy farming, Bio/Gobar gas production, Solar system installation for different purpose.</li> <li>• <i>DBW-173 wheat variety has been sown in village which is susceptible to diseases. Therefore, it has been advised not to grow this variety to avoid diseases and used only recommended durum wheat variety in MP.</i></li> <li>• The weed <i>Avena ludoviciana</i> was seen in the field.</li> <li>• The wheat variety like C-306, HI-1544 has been also grown by farmer.</li> <li>• Here, a solar tube well with 3HP motor was provided under Mukhyamantri Solar Pump Yojna (85% subsidy +15% farmer's share). The total cost of Solar panel is Rs. 3.50 lakh with 5 years guarantee on motor + pipes.</li> </ul>
Vill.- Atari Khejda		<ul style="list-style-type: none"> <li>• Visited State Govt. Horticulture Nursery, Atari Khejda which is doing good work under diversification of crops/cultivation.</li> </ul>
Vill.-Harvukheddi, Block-Vidisha	Cluster demonstration of Wheat and Chickpea	<ul style="list-style-type: none"> <li>• Met with farmer Shri Prem Singh (8225819474) who had taken gram (JG-14) sown on 24.12.2018 in paddy fallow land (Paddy harvested – Oct, 30). Last year the farmer obtained yield of 25 qtls/ha Paddy (DSR) and 26 qtls/ha from gram.</li> <li>• The SADO Shri K.R. Madhav, Vidisha (9584070428) informed that total 25 demonstrations were organized here.</li> <li>• <i>Wheat HI-1544 is replacing Lok-1 in major areas. This is major observation.</i></li> </ul>

Place/Institution visited	Activity/Events	Brief Report
Vill.-Harvukheddi, Block-Vidisha	Cluster demonstration of Wheat and Chickpea	<ul style="list-style-type: none"> <li>• Visited the Chickpea (var.- JG-14) demonstration field of Shri Nirbhaya Singh (9754691221) sown on 02 Nov with treated seed rate @100 kg/ha. The crop was in flowering-podding stage.</li> <li>• Earlier the farmer had taken paddy (MTU-1010) yielded @ 50 qtls/ha which was sold at Rs. 1735/- per qtl. (Govt. rates).</li> <li>• Visited chickpea (JG-14) demonstration field of Smt. Vineeta sown on 02.11.2018. The crop was at flowering to podding stage. Overall crop condition was excellent and no wilt was seen in the field.</li> </ul>
Vill.– Nateran, Block-Nateran	Cluster demonstration of Chickpea	<ul style="list-style-type: none"> <li>• Visited the cluster demonstration of Chickpea (JAKI-9218) field of farmer Shri Ram Krishna Raghuvanshi (9893626932) sown on 24.11.2018, the crop was at flowering stage.</li> <li>• <i>The REAO informed that timely availability of seed and inputs to the farmers is a major issue for cluster demonstration.</i></li> </ul>
Vill.-Bishanpur, Block-Kurwai	Cluster demonstration of Chickpea	<ul style="list-style-type: none"> <li>• Also, visited the chickpea demonstration (JAKI-9218) field of Shri Gaurav with RAEO- Shri SNS Rajput (9827213303).</li> </ul>
District- Vidisha	A wrap –up meeting with District Collector	<ul style="list-style-type: none"> <li>• The Central Sponsored Schemes like NFSM- Wheat, Pulses and Oilseed, RKVY, SHC, PMKSY, ATMA, NMSA (RAD), Seed village Programme and state schemes like, Suraj Dhara Yojana, Annapurna Yojana, Mukyamantri Khet Tirtha Yojana, MAPWA Yojana, Rastriya Biogas top-up Yojana, State micro-irrigation Mission, Nalkoop Khanan Yojana, Agroforestry, Information technology, Seed Production programme and Kishan Samridhi Yojana are ongoing in the district. The area coverage under Rabi cereal (Wheat and Barley), Rabi Pulses (Gram, Lentil and Pea), Rabi Oilseeds (Linseed and R&amp;M) and Sugarcane are 235.88, 283.26, 0.47 and 0.09 thousand ha respectively in the district till visit date.</li> <li>• A wrap –up meeting with Shri K. V. Singh, IAS, DM was held in circuit house to review the status of scheme implementation. The members shared their views about of the implementation of the crop development programmes relating to technology transfer, mechanization, Seed sector and training programmes. The district collector is taking keen interest in the implementation of farmer centric programme in the districts thus doubling the farmer’s income.</li> </ul>

Place/Institution visited	Activity/Events	Brief Report
<b>District- Ashoknagar</b>		
Vill.-Bamnai Haweli, Block- Ashoknagar	Cluster demonstration of Chickpea, wheat and Mustard	<ul style="list-style-type: none"> <li>• Cluster demonstration of chickpea variety JAKI-9218 on the field of farmer Shri Prakash was visited. Only seed was provided and other inputs were made purchased by farmer.</li> <li>• <i>Farmer Shri Vidur Yadav (9977871332), a 05 acre land holder informed about the issue of non-release of his subsidy (Rs. 80000/-) towards Balram Talab Yojana in 2015-16 costing Rs. 2.00 lakh but did not get subsidy due to road side spot. This issue may be resolved.</i></li> <li>• Visited the Mustard (Hybrid-Coral-432) demonstrated field of Farmer Shri Ram Singh/ Ganga Ram with RAEO, Shri Naresh Jain. The overall crop condition was good.</li> <li>• Farmers Shri Dheeraj Singh &amp; Shri Ram Singh Yadav organised the wheat demo. (HI-1544) (9993473686). <i>Superior quality seed has been requested to be supplied in the district under seed distribution component/ CFLDs.</i></li> <li>• <i>Soybean is being replaced with paddy (PS-1, 1121). Gram and Lentil is also being replaced with mustard due to wilt problem.</i></li> </ul>
KVK- Ashoknagar	CFLD of chickpea under KVK	<ul style="list-style-type: none"> <li>• Visited the CFLD chickpea var. RVG-201 in the field of Shri Yashpal Singh, sown on 22.11.2018. The variety was a wilt resistant variety.</li> <li>• 3 CFLD organized under DBT mode covered 0.44 ha each (Seed provided-30 Kg). The crop was at flowering to pod formation stage. The overall crop condition was excellent.</li> <li>• The KVK official informed that the programme covered 20 ha including 50 farmers.</li> <li>• <i>The KVK scientists recommended the wheat variety HI-8663 (Poshan) released during 2007-08 is best for Dalia and its yellow pigment is a good source of protein and good for eyes. Another variety made from its cross with Malav Shakti ie. Tejas (Poshan X Malav Shakti) is also highly recommended.</i></li> </ul>
Vill.-Amrod & Amrod Singrana Block- Ishagarh	CFLD of Chickpea and wheat	<ul style="list-style-type: none"> <li>• Farmer Shri H.S. Raghuvanshi (9165766126) has been doing the holistic farming.</li> <li>• The CFLDs chickpea var. - RVG-201 was sown on 1<sup>st</sup> week of December. The Crop was at reproductive to flowering stage. The overall crop condition was good.</li> <li>• Cluster demonstration of wheat var. HI-1544 (Purna) was sown on the field of Mr. Khangendra Raghuvanshi by department and expected yield 50qtl./ha.</li> </ul>

Place/Institution visited	Activity/Events	Brief Report
Vill.-Amrod & Amrod Singrana Block- Ishagarh	CFLD of Chickpea and wheat	<ul style="list-style-type: none"> <li>• District Ashoknagar is famous for wheat marketing of Sarbati variety. 22 color sorters are installed in Ashoknagar for Sharbati wheat (C-306).</li> <li>• Wild animal, especially the Deer is a major issue here.</li> <li>• CFLD of chickpea var. RVG-201 was done by KVK. The beneficiary farmer Shri Pramod Raghuvanshi (9617560242) sown the crop on 12 Nov.</li> </ul>
District- Ashoknagar	Meeting with DDA	<ul style="list-style-type: none"> <li>• The Central Sponsored Schemes like NFSM- Wheat, Pulses and Oilseed, RKVY, SHC, PMKSY, ATMA, NMSA (RAD), Seed village Programme and state schemes like, Suraj Dhara Yojana, Annapurna Yojana, Mukyamantri Khet Tirtha Yojana, MAPWA, Rastriya Biogas top-up Yojana, State micro-irrigation Mission, Nalkoop Khanan Yojana, Agroforestry, Information technology, Seed Production programme and Kishan Samridhi Yojana are ongoing in the district. The area coverage under Rabi cereals (Wheat and Barley), Rabi Pulses (Gram, Lentil and Pea), Rabi Oilseeds (Linseed and Rape seed &amp; Mustard) and Sugarcane are 155.58, 128.18, 9.42 and 0.66 thousand ha respectively in the district till visit date.</li> <li>• A meeting was held at district office to get the information about all the CSS and state sponsored scheme status in Ashoknagar. After discussion with the DDA these points came in view as : <ul style="list-style-type: none"> <li>i) In the <b>Beej Gram Yojana (SMSP)</b>, the component of Training and distribution of metal bins <i>has not been implemented. Similarly, the comprehensive district action plan about the needed crops and varieties to be included etc., also need an appropriate planning, both at the level of state nodal officer in consultation with the district. Training and distribution of metal bins and also assisting farmers to get the registration for certification need to be achieved. The NLMT recommends that more serious efforts are needed to implement the Beej Gram Yojana as per the objectives of the scheme. The scheme should not be limited up to the distribution of seeds only.</i></li> <li>ii) <b>NFSM (Wheat &amp; Pulses)</b> - <i>Training component could not be conducted due to non drawl of advance funds. The NLMT therefore advises that regular DFSMEC should be convened so that such issues could be sorted out at the level of the DM/chairman, DFMEC. Trainings/field visit is integrated part of cluster demonstration.</i></li> </ul> </li> </ul>

Place/Institution visited	Activity/Events	Brief Report
District- Ashoknagar	Meeting with DDA	<p><b>iii)</b> The Rabi- season NFSM action Plan of the district has revealed that Cropping System Based Demonstrations were not provided to the district while 30% of the total demonstrations should be CSBD to ascertain the suitable cropping pattern as a result of NFSM demonstration. The State Mission Director/ NFSM cell may like to ensure the allocation of the physical and financial targets in accordance to NFSM guidelines, potential of the district and available NRM resources.</p> <p><b>iv)</b> <i>In Ashoknagar, Cluster demonstration could not be conducted during Kharif 2018 owing to non-availability of seeds. This issue could have been resolved in consultation with the DFSMEC and State headquarters.</i></p> <p><b>v)</b> <b>PMKSY-</b> Details of implementation of PMKSY were not made available to the NLMT. Similarly the representative of horticulture deptt., one of the major stakeholders of this scheme, was also not present to brief the team.</p> <p><b>vi)</b> <b>Flexi fund/RCT/Water application tools-</b> <i>DDA is involved in the implementation of water application tools viz. Sprinkler set, Rain gun, water carrying pipes, Pump set only. The other RCT (Implements and Machineries amounting to &gt; Rs 50,000 cost) are implemented by the Directorate of Engg., the progress of RCT/Implements is not being provided to DDA. Thus, the district NFSM nodal officer (i.e. DDA) does not have the details of the total machineries/Farm power provided to the district. Nor it has any control on the quality or feedback issues relating to AMC. The NLMT therefore recommends that the DDA must be involved in the process of physical verification of all the implements so that a proper synergy is maintained as far as the implementation and impact of this component.</i></p> <p><b>vii)</b> <b>NMSA-</b> <i>Holistic development activity could also not be demonstrated due to paucity of staff. Moreover, the detail of this component could also not be provided to the team.</i></p> <p><b>viii)</b> <b>NMAET (ATMA)-</b> <i>Poor Public Sector Extension Strength:</i> The components like demonstrations, farm school organization, exposure visit, training and other innovative component are facing the implementation constraints. Large Scale vacancies have been noticed. Post of 2 DyPD are vacant, against 4 BTM, 2 vacant and against 8 ATM, 4 posts are vacant.</p>

Place/Institution visited	Activity/Events	Brief Report
District- Ashoknagar	Meeting with DDA	<p>Similarly the staff strength under RAEO/ADO/SADO etc. is also very poor. This has affected the quality of cluster demonstrations under NFSM, including ATMA. This scenario prevails across the state and adversely affecting crop development /extension/skill development work in state.</p> <p><b>ix)PMT-</b> The post of District Consultant (DC) is also vacant; <i>it is suggested to fill up the same.</i> 2 TAs are, however, doing good work with proper knowledge backup.</p> <p><i>It has been observed in the district Ashoknagar that there is a crop diversion in area from soybean to paddy and from pulses (gram/ lentil) to mustard due to complex of disease/ insects/erratic monsoon in soybean crop and wilt issues in gram and lentil. The team therefore recommends to catch this change (by the district/state) and chalk out the strategy to harness the potential by introduction of new varieties, method of planting and seed treatment etc.</i></p>
	Wrap up meeting with District Collector	<ul style="list-style-type: none"> <li>• A meeting was also held with Dr. Manju Sharma, DM Ashoknagar &amp; Chairman DFSMEC accompanied by ADM. The team had a detail discussion and appraise the scenario of crop and also feedback of the implementation of various CSS/ State Plan Scheme in the agriculture sector.</li> </ul>
<b>District- Rajgarh</b>		
District- Rajgarh	Participation in ATMA Fair (13 <sup>th</sup> - 15 <sup>th</sup> Feb)	<ul style="list-style-type: none"> <li>• The NLMT member participated in the fair plenary session on the auspicious presence of MLA Babu Singh Tanwar (9907789531/9425422591). More than 500 farmers participated in the fair.</li> <li>• The members also interacted with the farmers by way of lectures/question-answer session.</li> </ul>
	Meeting with DDA	<ul style="list-style-type: none"> <li>• The Central Sponsored Schemes like NFSM- Wheat, Coarse cereal, Pulses and Oilseed, RKVY, SHC, PMKSY, ATMA, NMSA (RAD), Seed village Programme and state schemes like, Suraj Dhara Yojana, Annapurna Yojana, Mukyamantri Khet Tirtha Yojana, MAPWA Yojana, Rastriya Biogas top-up Yojana, State micro-irrigation Mission, Nalkoop Khanan Yojana, Agroforestry, Information technology, Seed Production programme and Kishan Samridhi Yojana are ongoing in the district. The area coverage under Rabi cereals (Wheat and Barley), Rabi Pulses (Gram, Lentil and Pea) and Rabi Oilseeds (Linseed and Rape seed &amp; Mustard) are 203.26, 146.32 and 9.19 thousand ha respectively in the district till visit date.</li> </ul>

Place/Institution visited	Activity/Events	Brief Report
District- Rajgarh	Meeting with DDA	<p>• A meeting was held at district office to get the information about the status of implementation of CSS and state sponsored schemes in Rajgarh. Following issues were observed :</p> <p><b>i) Under SMSP-Beej Gram Yojana, the Kharif target under this component were given in the month of June, hence no activity could be under taken during Kharif.</b> During Rabi, the status of implementation, however, was not made available for review of the team. It seems that this scheme is generally treated as simple distribution of this seed only. Training and metal bin distribution etc. was also not implemented.</p> <p><b>ii) RKVY-Fodder and sweet corn demonstration activities have been informed to be conducted under this scheme; however the details may be taken from the districts.</b></p> <p><b>iii) KKA (Krishi Kalyan Abhiyan) -Phase-II (02 Oct. - 25<sup>th</sup>Dec.)-</b> Targets/blocks/ Villages were conveyed lately; hence the machineries etc. are yet to be distributed to the beneficiaries. The district has been advised to fulfil the target on priority basis under intimation to govt. of India.</p> <p><b>iv) NFSM (Wheat, Pulses, Coarse cereal &amp; Oilseed) –</b> The demonstration under this components have been organized, however, only limited to the distribution of seed , the other inputs have been informed to be purchased by the beneficiaries to be reimbursed as per the crop cafeteria. However, such details/documentations were not made available to the team. Further, prescribed 100 ha of single cluster was almost not organized/ not available.</p> <p><b>v) SHC- Technical competency:</b> The soil sample grid in irrigated areas is @ 2.5 ha per sample and for 10 ha per sample for rainfed or un irrigated area. <i>The district official informed that 02 AAS (Atomic Absorption Spectrophotometer) labs at Navsinghpur and Sarangpur block have been installed. However, it was noticed that none of the departmental official is trained to operate AAS and hence the lab is tying unutilized. The team therefore recommends that creation of SHC infrastructure/lab should be in consonance to the technical expertise for effective utilization and sustainability of the project.</i></p>

Place/Institution visited	Activity/Events	Brief Report
District- Rajgarh	Meeting with DDA	<p><i>The State nodal officer (SHC) may work out the details of labs created/ AAS viz a viz availability of trained manpower/technician to streamline the system under intimation to DAC &amp;FW and DPD, Bhopal.</i></p> <p><b>vi) PKVY-</b> Although, 6 clusters have been formed under Paramparagat Krishi Vikas Yojana, however, the state nodal officer has to bring out more transparency and hand holding for purposeful outcome of the scheme. It is observed that documentation on this part and clarity on the understanding of the scheme is missing across the districts.</p>
Vill.- Kherasi, Block-Sarangpur	Cluster demonstration of wheat and gram Distribution of sprinkler and motor diesel pump	<ul style="list-style-type: none"> <li>• Wheat and gram demonstration at 10 ha and 3 ha area was seen by the NLMT.</li> <li>• Farmer Shri Gheese lal (beneficiary of Cluster demonstration under SC category) sown wheat (Var.- HI 1544) and gram (Var.-JG-11) on Nov. The overall crop condition was good and the crop was nearly at its maturity stage.</li> <li>• Visited the wheat field of Ms. Dhapo Bai (9179280338) , wheat var.-HI-1544 was sown on 27.10.2018. under the supervision of SADO Shri Shakya S. R. (9826959366).</li> <li>• The farmer is also beneficiary of sprinkler and 5 HP motor diesel pump.</li> </ul>
Vill.- Khandi, Block-Biaora	Custom Hiring Center and Dairy farming	<ul style="list-style-type: none"> <li>• <i>Here, the Custom hiring centre, established by Directorate of Engg. was visited by the team. However, it was informed that the officials of Directorate of Engg. implement the Schemes of CHC, the RCT like Tractors, Rotavator, Multicrop thresher etc. in isolation, without informing/appraising the officials of district agriculture department. Therefore, the mechanization under NFSM or RKVY etc. is not being documented at the level of DDA who is the head of the District Agriculture Department for all crops development programme/extension.</i></li> <li>• <i>The NLMT consider it as a big lapse in monitoring of programmes in terms of physical achievement, qualitative aspects and their impact in cultivation cost cuttings and finally increase in per ha farm power. Presently, the farm power in Madhya Pradesh is 1.73 KW per ha, for reduction in input cost and increasing the farmer income by 15 % through mechanization, the farm power of MP shall have to be upgraded at 3.5 KW per ha. The NLMT recommends that for all sorts of farm machineries, involvement of District Agriculture Department i.e. o/o DDA/ PD, ATMA must be involved in the process of physical verification of RCT.</i></li> </ul>

Place/Institution visited	Activity/Events	Brief Report
Vill.- Khandi, Block-Biaora	Custom Hiring Center , Dairy farming and Organic farming	<ul style="list-style-type: none"> <li>Farmer Shri Satyendra Singh Yadav (9994438554) has a CHC and also involved in dairy farming with Breed of buffalo Jafrabadi and 3 murrah. The animals are insured @ Rs. 55000/- and @ Rs.60000/-per animal towards theft and death respectively.</li> <li>This farmer is also doing Organic Farming. The team advised the DDA to facilitate the farmer to get him registered with APEDA.</li> </ul>
Vill.-Suthalia, Block-Rajgarh	Distribution of Solar pump under Mukhyamantri Solar Pump Yojna and Cluster demonstration of chickpea	<ul style="list-style-type: none"> <li>Shri Ashok Kumar Agarwal (9993438811), beneficiary of Mukhyamantri Solar Pump Yojna is happily irrigating his farm. With 5HP motor pump and Solar panel at a total cost of Rs. 4.25 lakh, the farmer share was Rs. 72000. Such initiatives in the states of MP, CG and Maharashtra are paying wonder dividends to the farmers. The NLMT has observed that although the District Agriculture department do not implement this scheme directly but they have a major role in identification of beneficiaries and completion of formalities through facilitation etc. <i>The NLMT, therefore, suggest that the DDA should also stake its claim in development of such infrastructure as the progress of the District Agriculture Departments.</i></li> <li>Visited the field of farmer Shri Ankit Aggarwal sown chickpea var.-JAKI-9218 on 20.10.2018. The crop was at flowering stage. The standing crop condition was very good.</li> <li>Met with the farmer Shri Rajkumar Singh Rajput (8839283542) having 04 ha land who has requested for supporting the proper market access to the produce.</li> </ul>
Village- Laxmipura, Block- Rajgarh	Cultivation of Garlic and coriander Visit to Biogas Plant	<ul style="list-style-type: none"> <li>The crop coriander was grown here. The crop was in flowering stage; no damage due to hailstorm seen on field.</li> <li>Here, 75% gram crop is likely to be harvested.</li> <li>Garlic crop seen with some fungal infection.</li> <li>Whole village covered with 12 bio-gas plants. <i>The Bio-gas plant has brought a great change in the economy and standard of living of farmers (photo). The District Agriculture Department has done a very commendable work in this village.</i></li> </ul>
Village- Tindonia, Block- Narsingharh	Kisan Gosthi	<ul style="list-style-type: none"> <li>A Kisan gosthi was organized at Chaupal of village to discuss about the problem and to take the feedback of programme.</li> </ul>

Place/Institution visited	Activity/Events	Brief Report
Village- Tindonia, Block- Narsingharh	Kisan Gosthi	<ul style="list-style-type: none"> <li>• The farmer namely, Prem Narayan Sagwalia (9770362345), Suresh Pandagi (9926986782), Santosh Patel (9926986312), Shivcharan (9907017633), Nathu Lal (9770230606), Raj singh Sagoi (8435068788), Purushotam (9827804250), Badri Prasad (9617227251), Prem Pachola (8959423414), Rahul Patel (9754596108), Ram Singh (9713805245), Nand Kishor Patel (9691975638), Bapu Lal Panda (9770179451) attended the Charcha. The NLMT member interacted with farmers. Information about the varieties, new initiatives of govt. like PMFBY, e- NAM, MSP, PM-AASHA etc. were given.</li> <li>• Farmers were also informed about the cultivation of horse gram (Var. Indira Kulthi -1), linseed, safflower etc. so as to introduce new crop for better market price.</li> </ul>

## 14. SUMMARY OBSERVATIONS

### A. DEMONSTRATIONS & CLUSTER DEMONSTRATION: STATUS

- The team visited 04 districts of MP. During visit to the district, the team investigate the demonstrated field condition in different villages.
- The wheat crop was at flowering -booting stage- milking stage in the visited districts. The overall crop condition was good but the flag smut was seen in Village Dhaturia, Block- Vidisha.
- Wheat crop in demonstrations was seen as mixture, which invites diseases and lowered the wheat productivity.
- It was also observed that farmers are using very high seed rate of wheat, which is responsible for lower wheat productivity. Increased seed rate resulted in decrease in the wheat productivity.
- High infestation of weeds like broad leaved weeds and narrow leaved weeds (*Phalaris minor* and *Avena ludoviciana*) and unwanted mustard plant was also seen in the field of wheat.
- DBW-173 wheat variety has been sown in village Kewala, block- Gayaraspur, Vidisha is susceptible to diseases.
- Wheat HI-1544 (Purna) is replacing Lok-1 in major areas of village-Harvukhedi, Vidisha.
- The chickpea crop was at flowering to poding stage. In district vidisha, the crop was at the maturity stage. But the cold waves have damaged flowers of chickpea in visited districts especially in vidisha up to 40% crop loss was reported. The wilt problem in the chickpea was seen in the block vidisha which lead to total crop loss. This causes a crop diversion from chickpea/lentil to mustard.
- The indiscriminate chemical fertilizer use was also reported in the vill.- Amber, Block- Gyaraspur, Vidisha.
- No Cluster demonstration could be conducted during Kharif 2018 owing to non-availability of seeds in district Ashoknagar and the action plan of the district has revealed that no Cropping System Based Demonstrations have been provided to the district while 30% of the total

demonstration should be CSBD to ascertain the suitable cropping pattern as a result of NFSM demonstration. The training component was also not being implemented in the district.

- There is a crop diversion in district Ashoknagar from soybean to paddy and from pulses (gram/lentil) to mustard due to complex of disease/ insects/erratic monsoon in soybean crop and wilt issues in gram and lentil.
- In district Rajgarh, the demonstration under under NFSM have been organized only with the distribution of seed , the other inputs have been informed to be purchased by the beneficiaries to be reimbursed as per the crop cafeteria. However, such details/Documentations were not made available to the team. Further, prescribed 100 ha of single cluster was almost not organized/ not available.
- The CFLDs organized by the KVK Ahoknagar and Rajgarh was reviewed. The overall crop condition was good at field (Photo). Progress of CFLDs organized by KVKs during Rabi and summer season in MP state is presented below.

#### MP: CROP WISE PROGRESS OF CFLDs (2018-19)

(As on Jan. 15<sup>th</sup>, 2019)

Crop	Area (ha)		Financial (in Lakh)		KVK Covered
	Target	Organized	Target	Fund Released	
<b>Rabi Season</b>					
<b>Pulses</b>					
Chickpea	1170	1180	105.30	<b>94.94</b>	41
Field pea	40	40	3.60		3
Lentil	210	230	18.90		12
<b>Total</b>			<b>127.80</b>		
<b>Oilseed</b>					
Mustard	520	511	31.20	<b>71.23</b> (One time release for Kharif and Rabi season)	24
Linseed	320	266	16.00		13
Safflower	10	10	0.50		1
Sesame	30	0	1.50		3
<b>Total</b>			<b>49.20</b>		
<b>Summer Season</b>					
<b>Pulses</b>					
Black Gram	30	40	2.70	<b>-</b>	3
Green Gram	270	280	24.30		13
<b>Total</b>	<b>300</b>	<b>320</b>	<b>27.00</b>		

#### B. DBT: STATUS

- The visited districts has covered the different components like Seed demonstration, production, sprinkler, pipe line, diesel pump etc. included under all the CSS and State schemes for direct benefit transfer of subsidy amount credited on farmer bank account.
- An amount of Rs 38.72 lakh subsidy is provided to the 4960 farmers under SMSP (seed village) programme in Bhopal.
- Total Rs. 657.51 and 58.99 lakh subsidy is provided to 5473 and 1011 farmers in district Vidisha under NFSM crops and NFSM- Oilseed respectively.

- Total Rs.52.03 and 12.68 lakh subsidy is provided to 377 and 290 farmers in district Ashoknagar under NFSM crops and NFSM- Oilseed respectively.
- In Rajgarh, Distribution of irrigation equipment and implements has been done to 364 farmer with subsidy amount Rs.48.61 lakh under NFSM-Pulses, 534 farmers with 19.16 lakh under NFSM- Wheat and 27 farmers with 3.65 lakh under NFSM- Oilseed respectively.
- In district Rajgarh, seed has been distributed to 3935 farmers with subsidy of Rs. 40.13 lakh under RKVY and sprinkler set has been distributed to 237 farmers with Rs. 26.77 lakh under PMKSY

### **C. SEED AND FERTILIZERS & MICRO- NUTRIENT: STATUS**

- There is no any shortage of seed & fertilizer seen in the visited districts but the district official requested for timely availability of inputs.
- Against the target of 37.80, 32.08 and 71.10 thousand qtl, 33.74, 16.49 and 60.42 thousand qtls of rabi crops seed are available in district Bhopal, Ashoknagar and Rajgarh respectively.
- Out of total available seed, 22.93, 15.52 and 60.42 thousand qtls seeds are being distributed to the farmer in district Bhopal, Ashoknagar and Rajgarh respectively.
- Against the target of 470.00, 638.25, 407.00, 1005. 00 lakh tonnes, 331.31, 799.09, 262.86 and 1100.56 lakh tonnes of fertilizer are available in the district Bhopal, Vidisha, Ashoknagar and Rajgarh respectively.
- Out of total available fertilizers, 309.19, 760.88, 238.83 and 966.76 lakh tonnes fertilizers are being distributed to the farmers in district Bhopal, Vidisha, Ashoknagar and Rajgarh respectively.

### **D. RCT/FARM IMPLEMENTS AND MACHINERIES DISTRIBUTION: STATUS OF PROGRAMME IMPLEMENTATION**

- This component/intervention is being implemented by the Directorate of Engineering, one of the stakeholders of SDO. The details of allocation and expenditure of the fund in NFSM Agriculture Engineering is presented in below table.
- The state has adapted online application procedure for different RCT/Farm implements since 2017.
- The implements costing below Rs. 50,000/- are being implemented by the Deputy Director Agriculture and the RCT costing more than Rs. 50,000/- are being implemented by Director of Engg. with their limited field strength (AE/Sub-Engineers) of about 32 AE and Sub AE.
- Under the process of online application, the portal ([dbt.mpdage.org](http://dbt.mpdage.org)) is opened up to the fulfilment of the target. After the achievement of the target the online process is closed and opened again after the additional target or next year. The subsidy provided under the different scheme can be calculated from the calculator provided at portal.
- After the confirmation through online process the physical verification of these implements is done by the representative of Director of Agriculture Engineering.
- Based on the field observations and feedback by the District Agriculture Department., concurrent monitoring of this component is missing at the level of DDA as well as for NFSM

as a whole. The available farm power in the state is 1.37 KW/ha, the CSS interventions and the state interventions proposed to increase the farm power to more than 3 KW/ha to bring mechanization thereby reduction in cost of cultivation, enhancing yield through timely sowing in a limited sowing window and pushing the conservation agriculture/zero tillage.

- It is therefore suggested that the deputy director Agriculture should be roped in the channel of this component and the verification part should be kept with the DDA. Alternatively both the stakeholders may jointly verify the implements.
- Field observations have also revealed that some sub-standard/inferior quality/manufactures have been selected in the name of less cost. This incidence/ example was seen in Ujjain (Rotavator got corroded after few months which was provided under the scheme)

### NFSM Agriculture Engineering: Allocation and Expenditure (2016-19)

(Unit: in Lakh)

A. Year- 2016-17							
S. no.	Crop	Allocation	Release			Expenditure	Unspent Balance (As on 01.04.2017)
			GOI	State	Total		
1	Rice	429.40	257.64	171.76	429.40	63.65	365.75
2	Wheat	592.57	192.51	128.34	320.85	47.55	273.30
3	Pulses	6111.68	3667.01	2444.67	6111.68	906.09	5205.59
	<b>Total</b>	<b>7133.65</b>	<b>4117.16</b>	<b>2744.77</b>	<b>6861.93</b>	<b>1017.29</b>	<b>5844.64</b>

B. Year- 2017-18							
S. no.	Crop	Allocation	Revalidated (2016-17) (As on 01.04.2017)			Expenditure	Unspent Balance (As on 01.04.2018)
			GOI	State	Total		
1	Rice	87.85	219.45	146.30	365.75	83.79	281.96
2	Wheat	136.50	163.98	109.32	273.30	122.27	151.03
3	Pulses	1146.00	3123.36	2082.24	5205.59	1133.02	4072.58
	<b>Total</b>	<b>1370.35</b>	<b>3506.79</b>	<b>2337.86</b>	<b>5844.64</b>	<b>1339.08</b>	<b>4505.57</b>

C. Year- 2018-19							
S. no.	Crop	Allocation	Revalidated (2017-18) (As on 01.04.2018)			Expenditure	Balance
			GOI	State	Total		
1	Rice	153.50	169.18	112.78	281.96	153.50	128.46
2	Wheat	335.95	126.41	84.28	210.69	210.69	0.00
3	Pulses	776.84	2407.75	1605.17	4012.92	776.84	3236.08
	<b>Total</b>	<b>1266.29</b>	<b>2703.34</b>	<b>1802.23</b>	<b>4505.57</b>	<b>1141.03</b>	<b>3364.54</b>

Note: There is no any release of allocated fund in year 2017-18 & 2018-19.

## 15. SUGGESTIONS/RECOMMENDATIONS

- *In the event of non availability of 100 ha size of one cluster for full package demonstration. The team recommends that under these circumstances the size of cluster demonstration may be restricted to minimum 10-20 ha. However, the demonstration should be soil test based and with full inputs/ package which should be provided by the department at the time of sowing of the crop. To achieve the mandated outcome of the demonstration, all critical inputs need to be used. A considered policy decision in this regard may be taken by the NFSMEC/SFSMEC in view of the prevailing confusion to provide or not to provide the input cafeteria to the identified beneficiaries on whose field the demonstration is being organized.*
- The NLMT is of the considered opinion that the age of varieties for inclusion in demonstration/seed production under NFSM may be up to 15 years from the date of notification, especially for promising/successful/achiever varieties of pulses and wheat etc. Logically after notification, it takes 4-5 years for a variety in seed multiplication and its extension to farmer's fields.
- *The KVK scientists recommended the wheat variety HI-8663 (Poshan) released during 2007-08 is best for Dalia and its yellow pigment is a good source of protein and good for eyes. Another variety made from its cross with Malav Shakti i.e. Tejas (Poshan X Malav Shakti) is also highly recommended.*
- It is also suggested that in one cluster demonstration of wheat more number of varieties(4-5 varieties in a cluster), specially the durum one in view of the health benefits and the quality of wheat including the export potentials to fetch better international prices.
- In view to strength the technical knowledge, the field extension staff / District Consultants (DC) and Technical Assistant appointed under the NFSM-PMT may be deputed for two to three days training programme at IARI – Research Station, Indore prior to commence of rabi season and IIPR- Research Station, Phanda, Bhopal.
- Marketing is a major issue. Wheat variety LOK-1 is being replaced with recently released promising variety HI-1544 (Purna). Similarly, the other durum varieties with high protein percentage, Luteins (yellow pigments), zinc and iron are also gaining popularity among the farmers as well as the consumers. It is suggested that the State Department of Agriculture may facilitate the marketing of durum wheat at premium prices in Mandis by way of buyers- seller interface. This step may be a game changer for wheat growers of Madhya Pradesh.
- Use of high seed rate was noticed in all the visited districts. More extension affords and awareness is therefore emphasized. As a thumb rule, *1000 seed weight should be considered for calculating seed rate for an acre, if 1000 grain weight is 40 gram the per acre seed should be 40 kg/acre.*
- Gram crop demonstrations were treated with single fungicide Carbandazim (bavistin) only. These demonstrations should be treated with Bavistin + Thiram @ 2-2.5 gm per kg seed. The use of *Trichoderma viridae* @ 4 gm/Kg and Rizobium culture is highly recommended. The

demonstrations have revealed that method of planting i.e. Ridge furrow and BBF and proper seed treatment escapes the wilt problems.

- *The team also recommended the use of Tropicanaazole @ 1g/kg seed for wheat seed treatment instead of bavistin for control of diseases in crops.*
- *Schedule of insecticide for spray in gram was a blanket doses, which is not only harmful for plant development but also dangerous for humans and environment. Therefore, the farmers have been advised to avoid indiscriminate use of chemical pesticides if loss per cent is 5% i.e. ETL level, then only the pesticide should be used.*
- *Blanket doses of micro-nutrients should be soil test based or plant analysis based as it may affect the availability of other nutrients if excess in soil e.g. high dose of zinc may reduce the availability of phosphorous, iron and copper to plants.*
- *High infestation of weeds like broad leaved weeds and narrow leaved weeds (*Phalaris minor* and *Avena ludoviciana*) and unwanted mustard plant was also seen in the field of wheat.*

The Scientist recommended that farmers may use broad leaved weedicide (Metsulfuron methyl @ 4 g/ha) for mustard and other broadleaved weeds like *Chenopodium album*, *Melilotus indica*, *Parthenium hystrophorus*), *Convolvulus arvensis* etc. when weeds are at the stage of 3 to 5 leaves (4 to 5 week after sowing) and in case of narrow leaves weeds Clodinafop propargyl @ 60g/ha is very effective but it is to be used at right stage when weed is with 3-4 leaves (4-6 weeks crop stage). In case of complex weed flora, some ready mix herbicide mixture like Vesta (Clodinafop propargyl + Metsulfuron methyl) is available in market and can be used for effective control of both types of weeds in wheat crop.

- *The problem of frost or cold waves was seen in the field. Therefore, the team highly recommended the timely sowing and dry sowing for gram under the fluctuating weather situation and to skip cold waves and frost etc. The team suggested to spray Thiourea @ 500 ppm (500 gm in 1000 litre water) to protect cold waves/frost and also repeat the spray after 15 days if low temperature conditions persist/recurs. Apply light and frequent irrigation to protect the crops from cold / frost injury. Keep the fields weed free as the weeds blocks the sunlight and heating of the soil during daytime.*
- *The team recommended that sprinkler irrigation during flowering stage of wheat ie. 60-65 days in central India and 80-85 days in North India should not be advised as it induces the flower drops. Suitable advisories should be circulated during crop season from time to time.*
- *The NLMT advised to organize a field day/ farmer's trainings on cluster demonstration site and the impact analysis should be maintained in the register.*
- *It has been observed in the district that there is a crop diversion in area from soybean to paddy and from pulses (gram/ lentil) to mustard due to complex of disease/ insects/erratic monsoon in soybean crop and wilt issues in gram and lentil.*

*The team therefore recommends to catch this change (by the district/state) and chalk out the strategy to harness the potential by introduction of new varieties, method of planting and seed treatment etc.*

- The budget earmarked Rs. 50/- per participant on lunch, tea etc. for seed production training of farmers under seed village programme is very less and it should be at least 150/-participant.
- Report submitted by DDA Bhopal, in intercropping systems crops are separated by dash (-), while it should be plus (+) like Main crop + Intercrop. Intercropping of lentil + maize and pea + maize given in report are not as per recommended systems which may be changed suitably if required like Wheat (8-10 lines) + Mustard (one line).
- *Overall, it was observed that due to shortage of staff at almost all the places, condition of the demonstrations was not much satisfactory and utilization of funds is also very less. Hence, there is a need to fill the vacant posts and staff should be properly trained.*
- As budget utilization in most of the developmental schemes is very poor and there should be strict tri-monthly progress report from the concern not only activity but also on budget utilization.
- There were report of poor quality of agricultural implements and also non involvement of DDA in implementation of this component. *The NLMT consider it as a big lapse in monitoring of programmes in terms of physical achievement, qualitative aspects and their impact in cultivation cost cuttings and finally increase in per ha farm power. Presently, the farm power in Madhya Pradesh is 1. 73 KW per ha, for reduction in input cost and increasing the farmer income by 15 % through mechanization, the farm power of MP shall have to be upgraded at 3.5 KW per ha. The NLMT recommends that for all sorts of farm machineries, involvement of District Agriculture Department i.e. o/o DDA/ PD, ATMA must be involved in the process of physical verification of RCT.*
- For this, there should be more provision of funds for training of extension officials on all aspects of crop production and usage of agricultural implements.
- *Mobility is another major constraint. It is suggested that against Krishi Karman Awards funds, the Govt. of MP may also provide District/ Block level mobility, as has been done in Chhattisgarh.*

# Field Photographs

## District- Bhopal



Visit to the chickpea (Var.- RVG- 201) demonstrated field of Shri Mukesh/Ramdayal under NFSM at vill.-Hitaikhedi, Bhopal



Pot experiment on micro-nutrient in tomato at ICAR-IISS (Indian Institute of Soil Science)

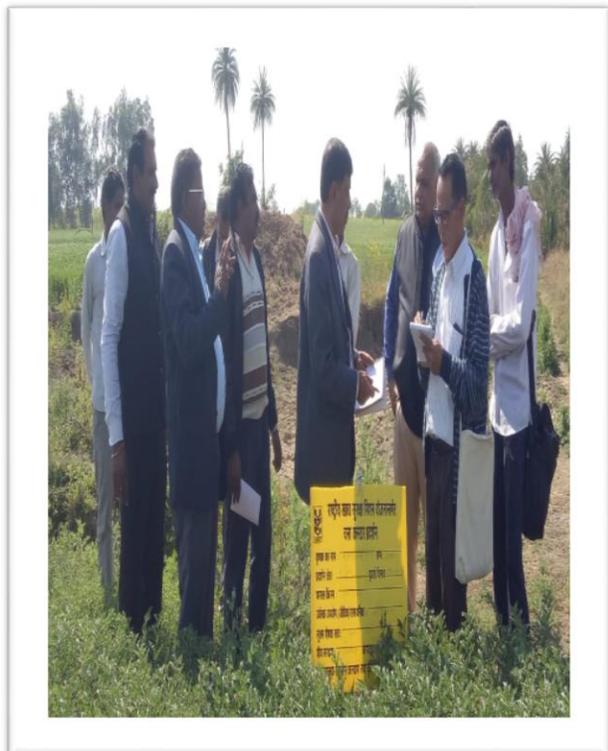


Visit to the seed storage godown (NFSM-Seed hub) at ICAR-IIPR, Phanda



Visit to the wheat field grown at the ICAR- IIPR (RS), Phanda farm

**District- Vidisha**



Cluster demonstration of chickpea under NFSM at district Vidisha



NFSM-Demonstration- Chickpea; Crop affected by wilt at vill.- Khari, Block- Vidisha



Team investigating the wheat (Var.-HI-8663)field at vill.- Amber, Bolck- Gayaraspur,



NLMT investing the fertilizer bags at disitric Vidisha

## District- Vidisha



Team discussed with the farmers of district vidisha about the problem and take the feedback of the farmers.



Team visited pond of a water carrying pipe beneficiary for irrigation at vill.-Dabar, Block-Vidisha

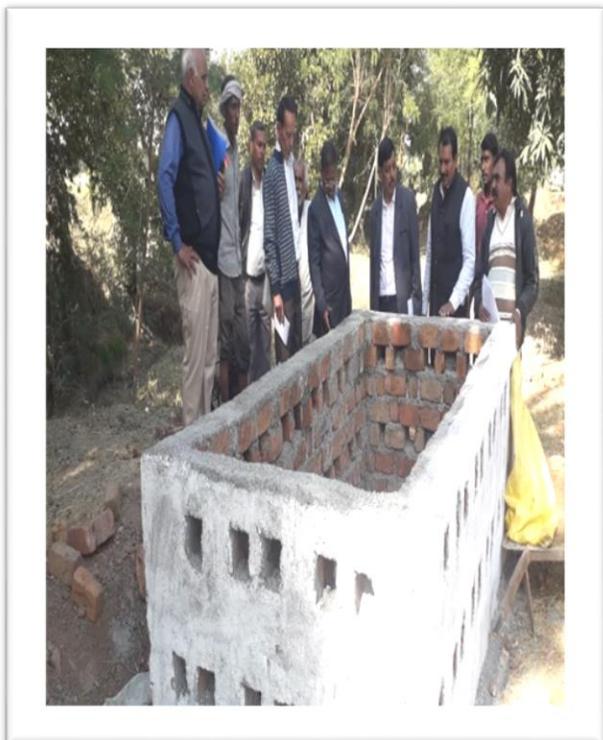


NLMT Investigating the condition of power operated chaff cutter in Vill.-Dabar, Block-Vidisha

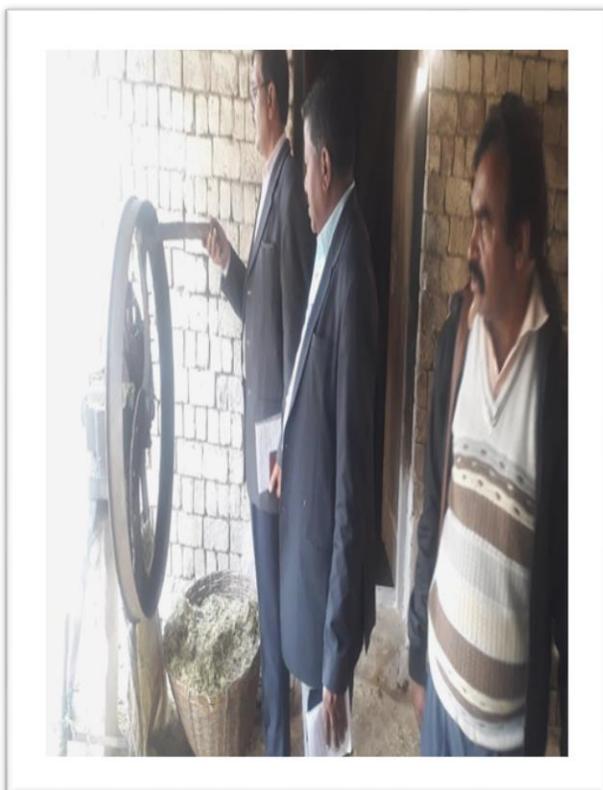


NLMT Investigating the condition of solar pump in Vill.-Dabar, Block- Vidisha

## District- Vidisha



Team visit the different units (Vermicompost unit, Dairy and farming) under holistic/ Integrated farming in district Vidisha



Team investigating the Chaff cutter provided under the RKVY

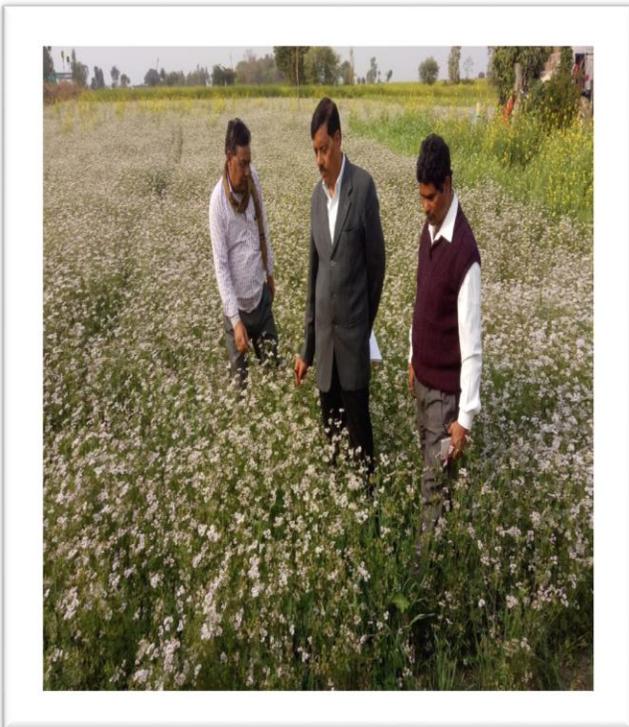


Team investigating the seed grader installed at District vidisha

## District- Ashoknagar



Meeting with Dr. Manju Sharma, IAS, Collector Ashoknagar to discuss about the agriculture programmes in districts, its problems and her suggestion for that.



Team investigating the field of the coriander affected by the cold waves



Cluster demonstration of the chickpea (Var.- RVG-201) organized by KVK- Ashoknagar

## District- Rajgarh



Team attended a Kishan Mela organized by ATMA at district- Rajgarh



Team attended a Kishan Gosthi at Vill.- Tindonia, Block- Narsingharh



Team visited the wheat demonstrated field at Vill.- Kherasi, Block- Sarangpur



Cold waves affected coriander field at Vill.- Laxmipura, Block- Rajgarh

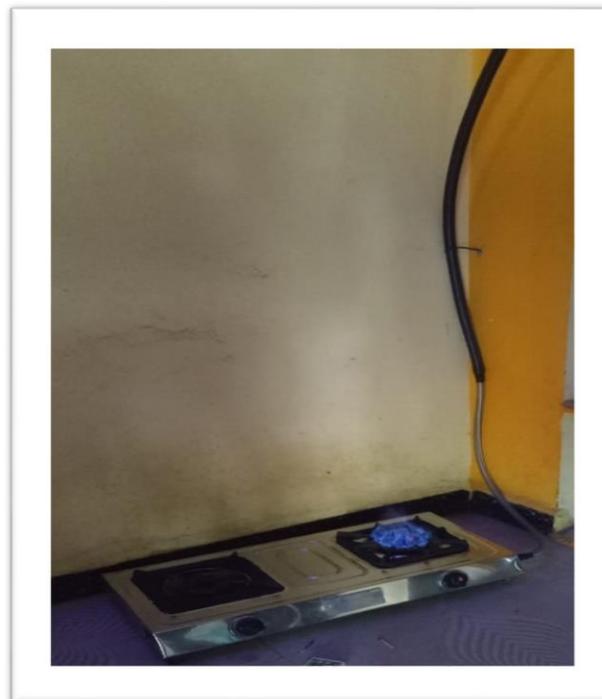
**District- Rajgarh**



Visit to Custom hiring centre at vill.- Khandi,  
Block- Biaora



Team investigating the solar tube well at Vill.-  
Suthalia, Block-Rajgarh



Use of Biogas for cooking at Vill.- Laxmipura



Change in the economic condition of the villagers  
of village Laxmipura due to biogas plant

**PHYSICAL AND FINANCIAL PROGRESS DURING 2018-19**  
**State: MADHYA PRADESH**

NFSM-RICE 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Jan., 2019)  
 (Financial: Rs. in Lakh)

S. No.	Intervention	Approved rate of Assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
<b>1</b>	<b>*Cluster Demonstrations by State Department of Agriculture with the technical backstopping of ICAR/SAUs/IRRI (One Cluster of 100 ha)</b>						
	(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	400	10.47
	(ii) Cluster Demonstrations on Line transplanting	Rs.9000/ha	ha	1200	108.00	1200	25.80
	(iii) Cluster Demonstrations on SRI	Rs.9000/ha	ha	1400	126.00	1400	33.41
	(b) Cluster Demonstrations on Hybrid Rice (One cluster of 100 ha)	Rs.9000/ha	ha	1000	90.00	1000	20.57
	(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	1765	49.35
	(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	642	34.20
	(ii) Rice-Lentil	Rs.15000/ha	ha	300	45.00	230	11.57
	(iii) Rice-Wheat	Rs.15000/ha	ha	500	75.00	400	22.26
	<b>Sub total</b>			<b>7434</b>	<b>759.06</b>	<b>7037</b>	<b>207.64</b>
<b>2</b>	<b>Seed Distribution:</b>						
	(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 Rice (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	190.5	0.47
	(c) HYVs Seeds of Rice (for varieties less than 10 year )	Rs.2000/qtl or 50% of cost whichever is less		3360	67.20	66	1.04
	<b>Sub total</b>			<b>7900</b>	<b>370</b>	<b>256.5</b>	<b>1.51</b>

NFSM-RICE 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Jan., 2019)

(Financial: Rs. In Lakh)

S. No.	Intervention	Approved rate of Assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
<b>3.</b>	<b>Farm Implements &amp; equipments</b>						
	(i) Rotavator for general Farmers (20-35 bhp)	40% of cost or Rs.35000/-	Nos.	250	87.50	71	29.63
	(ii) Manual Sprayers for SC/ST, Small & Marginal ,Women Farmers	50% of cost or Rs.600/-	Nos.	5000	30.00	0	0.00
	(iii) Paddy Planter for SC/ST, Small & Marginal ,Women Farmers	50% of cost or Rs.10000/-	Nos.	360	36.00	0	0.00
	<b>Sub-total</b>			<b>5610</b>	<b>153.50</b>	<b>71</b>	<b>29.63</b>
<b>4</b>	<b>Water Application Tools:</b>						
	(a) Incentive for Pump sets	Rs.10000/Unit or 50% of cost whichever is less	Nos.	1000	100.00	60	9.41
	(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	200	27.21
	<b>Sub total</b>			<b>1800</b>	<b>220</b>	<b>260</b>	<b>36.61</b>
<b>5</b>	<b>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 )</b>	Rs.3500/ Session Rs.14000/ Training	Nos.	125	17.50	120	15.40
	<b>Grand Total</b>				<b>1520.06</b>		<b>290.81</b>

**NFSM-Wheat 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Jan., 2019)**  
(Financial: Rs. In Lakh)

S.No.	Interventions	Approved Rate of Assistance	Unit	Targets		Achievement	
				Phy.	Fin.	Phy.	Fin.
<b>1</b>	<b>*Demonstrations on Improved Technologies:</b>						
	A. Cluster Demonstrations of 100 ha each	Rs.9000/ha	ha	15500	1395.00	15500	716.47
	B. Cropping system based demonstrations (30% of total outlay for demonstrations)-cropping sequence to be specified						
	(i) Wheat-Moong (Summer)	Rs.15000/ha	ha	1200	180.00	681	39.30
	(ii) Wheat- Urd (Summer)	Rs.15000/ha	ha	1200	180.00	602	25.86
	<b>Sub total</b>			<b>17900</b>	<b>1755</b>	<b>16783</b>	<b>781.63</b>
<b>2</b>	<b>Distribution: HYVs seeds of Wheat</b>						
	(a) HYVs seeds for varieties > 10 year (Limited to 20 per cent of total seed distribution target)	Rs.1000/qtl	qtl	14140	141.40	531.61	6.43
	(b) HYVs seeds for varieties < 10 year	Rs.2000/qtl	qtl	28294	565.88	1747.20	20.71
	<b>Sub total</b>			<b>42434</b>	<b>707.28</b>	<b>2278.81</b>	<b>27.14</b>
<b>3.</b>	<b>Farm Implement &amp; equipments</b>						
	(i) Rotavator for general Farmers (20-35 bhp)	40% of cost or Rs.35000/-	Nos.	617	215.95	134	54.71
	(ii) Manual Sprayers for SC/ST, Small & Marginal ,Women Farmers	50% of cost or Rs.600/-	Nos.	20000	120.00	0	0
	<b>Sub total</b>			<b>20617</b>	<b>335.95</b>	<b>134</b>	<b>54.71</b>
<b>4</b>	<b>Water Application tools</b>						
	(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	614	64.41
	(b) Pump sets	Rs.10000/Unit or 50% of cost whichever is less	Nos.	1000	100.00	213	10.81
	(c) Sprinkler sets	Rs.10000/ha or 50% of cost whichever is less	ha	1200	120.00	374	26.00
	(d) Mobil Rain Gun	Rs.15000/ha or 50% of cost whichever is less	ha	50	7.50	2	0.30
	<b>Sub total</b>			<b>3750</b>	<b>452.50</b>	<b>1203</b>	<b>101.52</b>
<b>5</b>	<b>Cropping system based trainings (Four Sessions i.e. one before Kharif and rabi seasons. One each during Kharif and Rabi crops )</b>						
		Rs.3500/ session Rs.14000/Training	Nos.	230	32.20	156	18.97
	<b>Grand Total</b>				<b>3282.93</b>		<b>983.97</b>

**NFSM-Pulses 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Jan., 2019)**  
(Financial: Rs. In Lakh)

S. No.	Intervention	Approved Rate of Assistance	Unit	Proposed Targets		Achievement	
				Phy.	Fin.	Phy.	Fin.
<b>1</b>	<b>*Demonstrations on Improved Technologies:</b>						
	<b>(a) Cluster Demonstrations (of 100 ha each)</b>						
	Arhar	Rs.9000/ha	ha	10000	900.00	10000	493.38
	Urd		ha	10000	900.00	10000	745.14
	Moong		ha	10000	900.00	10000	567.69
	Gram		ha	30000	2700.00	27900	1403.26
	Lentil		ha	10000	900.00	10000	404.38
	<b>Sub total</b>			<b>70000</b>	<b>6300.00</b>	<b>67900</b>	<b>3613.84</b>
	<b>(b) Demonstration on intercropping (specify intercrop)</b>						
	Moong - Maize	Rs.9000/ha	ha	4500	405.00	10155	496.17
	Urd- Bajra		ha	2500	225.00	1635	43.82
	Urd - Maize		ha	2000	180.00	8502	431.18
	Lentil -Maize		ha	1000	90.00	130	2.13
	Gram - Wheat		ha	12000	1080.00	8061	306.11
	Pea- Maize		ha	1000	90.00	140	7.17
	<b>Sub total</b>			<b>23000</b>	<b>2070.00</b>	<b>28623</b>	<b>1286.58</b>
	<b>(c) Cropping System Based Demonstrations- 30% of total demonstration-(specify cropping sequence)</b>						
	Pea - Maize	Rs.15000/ha	ha	2500	375.00	1165	59.03
	Moong - Wheat		ha	12000	1800.00	12370	1020.70
	Urd - Wheat		ha	8000	1200.00	10478	825.60
	<b>Sub total</b>			<b>22500</b>	<b>3375.00</b>	<b>24013</b>	<b>1905.33</b>
	<b>Subtotal (1)</b>			<b>115500</b>	<b>11745</b>	<b>120536</b>	<b>6805.75</b>
<b>2</b>	<b>Assistance of Distribution and Production of Seeds</b>						
<b>2 A</b>	<b>Distribution of Seeds (for Varieties less than 10 year of age)</b>						
	Arhar	Rs.5000/qtl or 50% of cost whichever is less	Qtl	6000	300.00	519	32.80
	Urd		Qtl	12000	600.00	556	55.53
	Moong		Qtl	14000	700.00	278	6.14
	Gram		Qtl	30000	1500.00	3224	163.77
	Lentil		Qtl	6300	315.00	200	9.17
	<b>Sub total</b>			<b>68300</b>	<b>3415.00</b>	<b>4777</b>	<b>267.41</b>
<b>2 B</b>	<b>Distribution of Seeds (for Varieties &gt; 10 year of age)-Limited to 20% of total seed distribution target</b>						
	Arhar	Rs.2500/qtl or 50% of cost whichever is less	Qtl	6000	150.00	250	5.65
	Urd		Qtl	6000	150.00	287.32	6.78
	Moong		Qtl	8000	200.00	784.9	5.69
	Gram		Qtl	12000	300.00	647.61	55.39
	Lentil		Qtl	2150	53.75	27.4	0.04
	<b>Sub total</b>			<b>34150</b>	<b>853.75</b>	<b>1997.23</b>	<b>73.55</b>
<b>2 C</b>	<b>Production of Seeds (for Varieties less than 10 year of age)</b>						
	Arhar	Rs.5000/qtl or 50% of cost whichever is less	Qtl	10000	500.00	7072	242.55
	Urd		Qtl	15000	750.00	11594	526.48
	Moong		Qtl	26000	1300.00	19545	588.88
	Gram		Qtl	25000	1250.00	12501	319.52
	Lentil		Qtl	9000	450.00	822	33.09
	<b>Sub total</b>			<b>85000</b>	<b>4250.00</b>	<b>51533</b>	<b>1710.53</b>
	<b>Subtotal (2)</b>			<b>187450</b>	<b>8518.75</b>	<b>58308</b>	<b>2051.48</b>

NFSM-Pulses 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Jan., 2019)  
(Financial: Rs. In Lakh)

S. No.	Intervention	Approved Rate of Assistance	Unit	Proposed Targets		Achievement	
				Phy.	Fin.	Phy.	Fin.
<b>3.</b>	<b>Farm Implements &amp; equipment</b>						
	(a) Power Knap Sack Sprayer	Rs.3000/Unit or 50% of cost whichever is less	Nos.	3000	90.00	1500	101.00
	(b) Manual Sprayer	Rs. 600/Unit or 50% of cost whichever is less	Nos.	14473	86.84	8255	66.04
	(c) Rotavator	Rs.35000/Unit or 50% of cost whichever is less	Nos.	1000	350.00	1714	695.66
	(e) Power Tiller	Rs. 50000/Unit or 50% of cost whichever is less	Nos.	200	100.00	-	-
	(f) Multi crop thresher	Rs. 40000/Unit or 50% of cost whichever is less	Nos.	0	0.00	289	115.45
	(g) Seed Drill	Rs.15000/Unit or 50% of cost whichever is less	Nos.	1000	150.00	1323	254.02
				<b>19673</b>	<b>776.84</b>	<b>13081</b>	<b>1232.17</b>
<b>4</b>	<b>Efficient Water Application Tools:</b>						
	(a) Sprinkler Sets	Rs.10000/ha or 50% of cost whichever is less	Nos.	20000	2000.00	7720	551.70
	(b) Pump Sets	Rs.10000/Unit or 50% of cost whichever is less	Nos.	15000	1500.00	5200	384.90
	(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	Mtrs.	15000	2250.00	8871	1129.17
	(d) Mobile Rain gun	Rs. 15000/Unit or 50% of cost whichever is less	Nos.	25	3.75	4	0.31
	<b>Sub total</b>			<b>50025</b>	<b>5753.75</b>	<b>21795</b>	<b>2066.08</b>
<b>5</b>	<b>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)</b>	Rs.3500/ Session & Rs.14000/ Training	Nos.	2050	287.00	1609	205.50
<b>6</b>	<b>Miscellaneous Expenses - PMT &amp; Other at District level</b>			50	725.00	0	245.30
	Miscellaneous at state level				56.00	0	20.17
	<b>Grand Total</b>				<b>27862.34</b>		<b>12626.46</b>

NFSM-Coarse cereals 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh in 22 districts  
(Till Jan., 2019)

(Financial: Rs. In Lakh)

S.No	Interventions	Approved Rate of Assistance	Unit	GOI Approved Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
<b>1(a)</b>	<b>Demonstration on Improved package</b>						
	(i) Maize	Rs. 6000/-per ha	ha	10300	618.00	10300	466.70
	(ii) Barley (for covered State)	Rs. 6000/-per ha	ha	200	12.00	100	0.00
	<b>Sub total</b>			<b>10500</b>	<b>630</b>	<b>10400</b>	<b>466.70</b>
<b>1(b)</b>	<b>Demonstration on Intercropping (specify the intercrop )</b>						
	(i) Maize- Moong	Rs. 6000/-per ha	ha	500	30.00	290	4.212
	(i) Maize- Urd	Rs. 6000/-per ha	ha	500	30.00	376	7.765
	(ii)Barley-Gram	Rs. 6000/-per ha	ha	200	12.00	0	0.00
	(ii)Barley-Lentil	Rs. 6000/-per ha	ha	200	12.00	200	1.44
	<b>Sub total</b>			<b>1400</b>	<b>84.00</b>	<b>866</b>	<b>13.42</b>
	<b>Subtotal (1)</b>			<b>11900</b>	<b>714.00</b>	<b>11266</b>	<b>480.10</b>
<b>2</b>	<b>Distribution of Certified Seeds</b>						
<b>2(a)</b>	<b>HYVs seeds (less than 10 years of age)</b>						
	(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
<b>2(b)</b>	<b>HYVs seeds (more than 10 years of age)</b>						
	(i) Maize	50% of coat or Rs. 1500/- Qtl. whichever is less	Qtl	233	3.50	293	0.949
	(ii)Barley (for covered State)		Qtl	100	1.50	0	0.00
<b>2(c)</b>	<b>Hybrid seeds of Maize</b>	50% of coat or Rs. 10000/-Qtl whichever is less	Qtl	2802	280.20	983	45.38
	<b>Sub total</b>			<b>3800.6</b>	<b>305.163</b>	<b>1276</b>	<b>46.33</b>
	<b>Grand Total</b>				<b>1019.16</b>		<b>526.40</b>

NFSM-Nutri-cereals 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh in 24 districts  
(Till Jan., 2019)

(Financial: Rs. In Lakh)

S.No	Interventions	Approved rate of assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
1	<b>Cluster Front line Demonstration</b>						
	(i) Jowar	Rs. 6000/ha	ha	1000	60.00	618	14.91
	(ii) Bajra	Rs. 6000/ha	ha	5000	300.00	3900	117.04
	(iii) kodo Millet	Rs. 6000/ha	ha	1000	60.00	400	1.60
	(iv) Little Millet	Rs. 6000/ha	ha	500	30.00	200	1.11
	<b>Sub total</b>			<b>7500</b>	<b>450.00</b>	<b>5118</b>	<b>134.66</b>
2	<b>Distribution of Seed (60:40)</b>						
	<b>(a) Hybrid seed of nutritive variety (25% of total seed allocation of jowar &amp; bajra)</b>						
	(i) Bajra	50% of cost or Rs. 10000/-Qtl. whichever is less	Qtl	650	65.00	45	4.05
	(ii) Jowar		Qtl	50	5.00	0	0.00
	<b>(b) HYVs seed</b>						
	(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
	<b>(vii) Small Millets</b>						
	(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
				<b>7199</b>	<b>232.49</b>	<b>45</b>	<b>4</b>
3	<b>Certified seed production HVYs seeds by state &lt; 10 years old varieties (60:40)</b>						
	(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
	<b>(vi) Small Millets</b>						
	(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
				<b>5230</b>	<b>156.90</b>	<b>0</b>	<b>0</b>
4	<b>Cropping system based training</b>	Rs. 14000/ training of 4 session		185	25.90	110	14.49
5	<b>Farm Implement &amp; Equipments (60:40)</b>						
	(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	0	0
	(ii) Manual Sprayer For other Farmer	40% of coat or Rs. 500/-unit, whichever is less	Nos.	18400	92.00	0	0
	<b>Grand Total</b>				<b>1125.29</b>		<b>153.19</b>

NFSM-Sugarcane 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Jan., 2019)

(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	390.00	9.80
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	1.00	0.40
<b>Total</b>					<b>51.25</b>		<b>10.20</b>

NFSM-Cotton 2018-19: Physical & Financial Target & Achievement of Madhya Pradesh (Till Jan., 2019)

(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	2	0.03
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	2	0.03
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	Nos.	2	0.80	1	0.40
<b>Total</b>					<b>122.50</b>		<b>0.46</b>

**APPROVED COST NORMS & INPUT CAFETERIA: 2018-19**

**A. CLUSTER DEMONSTRATION: SOLE CROP**

**1. Rice (DSR & Stress Tolerant variety/ Line Transplanting /SRI & 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.)	5 kg BGA+300 kg/ha	1600.00
5.	Biopesticide (Mycorrhiza, Azatirachtin, IPM etc.)	2 liters/ha	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>9000.00</b>

**2. Pulses**

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha	
<b>1</b>	<b>Popularization of improved varieties</b>			
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		
<b>2</b>	<b>Seed treatment fungicides/Molybdenum</b>	100 gm/ha	100.00	
<b>3</b>	<b>Promotion of use of Micro Nutrients and bio-fertilizers</b>			
3.1	Zinc sulphate (Based on soil testing value)	25 kg/ha	800.00	
3.2	Sulphur	Sulphur 80% WG		20 kg/ha
		Gypsum		25 kg/ha
3.3	Bio-fertilizers	Rhizobium (Liquid culture)	2 liters/ha	500.00
		PSB (Liquid culture)	2 liters/ha	
		Trichoderma viride	2 kg/ha	
4	Plant Protection	For Diseases	2 liters/ha	1000.00
		For insect and pesticide		1000.00
		Weedicide		1000.00
5	IPM	Neem oil (3000 ppm)	2 liters/ha	800.00
		NPV virus	250 Li	
6	Publicity material /Visit of Scientists/Field Day	-	800.00	
	<b>Total</b>		<b>9000.00</b>	

### 3. COARSE CEREALS : 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	100 gm	100.00
3.	Zinc sulphate (Based on soil testing value)	25 kg/ha	500.00
4.	Weedicides	500 gm	300.00
5.	Bio-fertilizers (Azotobacter and PSB liquid)	1 liters each/ha	300.00
6.	IPM	Trichoderma	1 kg/ha
		Neem oil	1 liters/ha
7.	Publicity material /Visit of Scientists/Field Day	-	800.00
	<b>Total</b>		<b>6000.00</b>

### 4. NUTRI- CEREALS : 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	100 gm	100.00
3.	Zinc sulphate (Based on soil testing value) + Borax	25 kg/ha + 10 kg/ha	700.00
4.	Weedicides	500 gm	1000.00
5.	Bio-fertilizers (Azotobacter and PSB liquid)	1 liters each/ha	400.00
6.	Plant protection		1000.00
7.	Publicity material /Visit of Scientists/Field Day	-	800.00
	<b>Total</b>		<b>6000.00</b>

### B. INTERCROPPING DEMONSTRATION

#### 1. Oilseed/Pulses (Main Crop) + Pulses /Cereals/Coarse Cereals (Inter-crop)

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Soybean/Mung/Urd (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 /PMB	5 gm /kg seed	100.00
6.	Publicitymaterial/Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>5000.00</b>

## 2. Cereals/Oilseed/Coarse Cereals (Main Crop) + Pulses (Inter-crop)

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Wheat/Soybean/Mustard/Jowar (Main Crop) + Tur/ Gram/ Pea/Urd/Mung/Moth/Lentil/ (Inter-crop)		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
	<b>Total</b>		<b>9000.00</b>

## 3. Commercial Crop (Main Crop) + Cereals/Pulses (Inter-crop)

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Sugarcane (Main crop) + Wheat/Gram	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
	<b>Total</b>		<b>9000.00</b>

## C. CROPPING SYSTEM BASED DEMONSTRATION (CSBD)

### 1. CSBD: PULSE-WHEAT

#### i) Pulses

(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)	2 liter	500.00
5.	Vermi Compost	300 kg/ha	1600.00
6.	Biopesticide (Mycorrhiza, Azadirachtin, IPM)	2 liter/ha	1000.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>9000.00</b>

## ii) 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 etc.)	2 liter	300.00
5.	Vermi-Compost	300 kg/ha	600.00
6.	Biopesticide (Mycorrhiza, Azatirachtin IPM )	2 liter/ha	600.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>6000.00</b>

## 2. CSBD: RICE-WHEAT/PULSES

## i. 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 (Carbendazim+ Mancozeb)	1.5 gm + 2.5gm/kg	100.00
4.	Biofertilizer (BGA, Vermi-compost and PROM*)	5 kg BGA+300 kg/ha	1600.00
6.	Biopesticide (Mycorrhiza, Azatirachtin IPM etc.)	2 liters/ha	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>9000.00</b>

## ii. 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	1.5 gm/kg seed	200.00
5.	Use of Biofertilizer (Vermicompost, PROM* )	5 kg+300 kg/ha	800.00
6.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>6000.00</b>

## iii) 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 and PSB</i> )	5 kg/ha	200.00
3.	Zinc Sulphate	25 kg/ha	1000.00
3.	Seed treatment fungicides (Bavistin+Thirum)	1gm+2 gm/kg seed	100.00
4.	Use of Biofertilizer (Vermicompost, PROM*)	5 kg+300 kg/ha	600.00
6.	Biopesticide (Mycorrhiza, Azatirachtin IPM )	2 liter/ha	500.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>6000.00</b>

PROM\*-Phosphate Rich Organic Manure

**ANNEXURE-III****NFSM ALLOCATION AND EXPENDITURE (2016-2019): VISITED DISTRICTS****(Rs. in Lakh)**

Financial Year (F.Y.)	Approved allocation (Target)	Availability of funds			Expenditure
		U.B. as on 1 <sup>st</sup> April	Release	Total	Total
(1)	(2)	(3)	(4)	(5)	(6)
<b>District- Vidisha</b>					
<b>NFSM- Wheat</b>					
2016-17	409.39	0	100.57	100.57	100.57
2017-18	439.55	0	155.36	155.36	155.36
2018-19	288.11	0	135.02	135.02	111.68
<b>NFSM- Pulses</b>					
2016-17	1522.97	0	397.77	397.77	397.77
2017-18	1354.42	0	591.30	591.30	368.54
2018-19	949.26	0	658.98	658.98	487.63
<b>NFSM- Additional Pulses</b>					
2016-17	147.50	0	87.51	87.51	50.85
2017-18	812.30	0	160.52	160.52	72.77
<b>District- Ashoknagar</b>					
<b>NFSM- Wheat</b>					
2016-17	209.53	-	127.43	127.43	54.05
2017-18	227.60	-	46.00	46.00	43.75
2018-19	178.50	-	77.84	77.84	13.51
<b>NFSM- Pulses</b>					
2016-17	1030.29	-	580.28	580.28	152.58
2017-18	691.01	-	90.00	90.00	70.19
2018-19	663.93	-	301.39	301.39	56.41
<b>NFSM- Additional Pulses</b>					
2016-17	46.25	-	46.25	46.25	-
2017-18	136.60	-	2.200	2.200	-
<b>District- Rajgarh</b>					
<b>NFSM- Wheat</b>					
2016-17	302.91	-	-	116.01	43.40
2017-18	242.12	-	-	69.65	63.67
2018-19	186.51	-	-	82.03	58.49
<b>NFSM- Pulses</b>					
2016-17	1009.64	-	-	678.63	158.04
2017-18	835.04	-	-	342.65	197.56
2018-19	573.20	-	-	251.57	107.63
<b>NFSM- Additional Pulses</b>					
2016-17	-	-	-	-	-
2017-18	315.55	-	-	66.65	66.65
2018-19	-	-	-	53.00	5.22
<b>NFSM- Coarse Cereal</b>					
2016-17	-	124.80	-	90.12	29.79
2017-18	-	98.00	-	107.57	22.42
2018-19	-	81.80	-	24.06	18.13

**NFSM- OILSEED ALLOCATION AND EXPENDITURE (2016-2019): VISITED DISTRICTS**

(Rs. in Lakh)

Financial Year	Opening Balance	Allocation	Release	Total fund available with State	Expenditure
	(A)	(B)	(C)	(A+C)=(D)	(E)
<b>Bhopal</b>					
2016-17	Nil	95.87	95.87	95.87	80.91
2017-18	Nil	60.78	60.78	60.78	59.68
2018-19	-				
1 <sup>st</sup> Instal.	-	46.00	46.00	46.00	25.75
<b>Vidisha</b>					
2016-17	-	2079.87	651.61	651.61	536.59
2017-18	-	2606.27	1250.00	1250.00	596.67
2018-19	-	1295.57	794.00	794.00	651.51
1 <sup>st</sup> Instal.	-	-	624.00	624.00	522.31
2 <sup>nd</sup> Instal.	-	-	170.00	170.00	135.21
<b>Ashoknagar</b>					
2016-17	-	-	-	-	-
2017-18	-	-	-	-	-
2018-19	-	17.60	-	17.60	13.24
1 <sup>st</sup> Instal.	-	7.60		7.60	-
2 <sup>nd</sup> Instal.		10.00	-	2.00 8.00	-
<b>Rajgarh</b>					
2016-17	-	149.29		121.25	115.90
2017-18	-	106.59		106.59	95.59
2018-19	-	111.27		40.48	12.91

**SEED MINIKIT STATUS: VISITED DISTRICTS**

**1. ALLOCATION AND SUPPLY STATUS OF SEED MINIKITS RABI-2018-19**

District	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)		
<b>NFSM-PULSES: RABI CROPS</b>									
Bhopal	Gram	JG-12	16	250	40	250	40	06.10.18	NSC
		JG-14	16	200	32	200	32	08.10.18	IFFDC
	Lentil	IPL-316	8	150	12	150	12	06.10.18	HL
Vidisha	Gram	JG-14	16	900	144	900	144	21.09.18	IFFDC
		JG-12	16	650	104	650	104	22.09.18	NSC
	Lentil	IPL-316	8	1400	112	1400	112	17.10.18	HIL
Ashok Nagar	Gram	RVG -201	16	100	16	100	16	14.09.18	KRIBHCO
		JG -14	16	1200	192	1200	192	01.10.18 -10.10.18	NAFED, Indore
	Lentil	IPL -316	8	500	40	500	40	03.11.18	HIL
Rajgarh	Gram	JG-14	16	500	80	500	80	15-9-18	IFFDC
		JG-12	16	400	64	-	-	-	-
	Lentil	IPL-316	8	1600	128	1600	128	23.10.18	HIL
<b>NFSM-OILSEED: RABI CROPS</b>									
Bhopal	Linseed	JLS-67	2	100	2	100	2	06.10.18	NSC
	Mustard	NRCB-101	2	300	6	300	6	06.10.18	NSC
		RH-0749	2	300	6	300	6	06.10.18	NSC
Vidisha	Linseed	JLS-67	2	150	3	150	3	15.09.18	NSC
	Mustard	RH-0749	2	400	8	400	8	15.09.18	NSC
		NRCHB-1010	2	300	6	300	6	29.09.18	NSC
Rajgarh	Mustard	NRCHB-1010	2	500	10	500	10	18-9-18	NSC
		RH-049	2	700	14	700	14	18-9-18	NSC
	Linseed	JLS-67	2	300	6	300	6	18-9-18	NSC

## 2. CROP-WISE SEED MINIKIT PERFORMANCE

Crop	Variety	2017-18				2018-19			
		Yield (kg/ha)		Yield Gap		Yield (kg/ha)		Yield Gap	
		Minikit	Check variety	Kg/ha	%	Minikit	Check variety	Kg/ha	%
<b>District- Bhopal</b>									
<b>Kharif Crops</b>									
Arhar	TJT-501	-	-	-	-	1560	1320	240	15
	BDN-711	-	-	-	-	1490	1280	210	14
Urd	PU-31	1050	820	230	21.90	-	-	-	-
	Azad-2	1000	790	210	21	-	-	-	-
<b>Rabi Crops</b>									
Gram	JAKI-9218	1640	1320	320	19.51	-	-	-	-
	JG-14	1720	1350	370	21.51	-	-	-	-
	JG-6	1700	1300	400	23.52	-	-	-	-
<b>District- Vidisha</b>									
<b>Kharif Crops</b>									
Arhar	TJT-501	-	-	-	-	1800	1650	150	8
	BDN-711	-	-	-	-	1450	1375	75	5
Mung	TJM-3	840	720	120	14.29	-	-	-	-
Urd	PU-31	850	600	250	29.42	-	-	-	-
Soybean	JS-9560	850	730	120	14.12	1400	1375	25	2
	RVS-2001-04	-	-	-	-	1800	1750	50	3
<b>Rabi Crops</b>									
Gram	JG-63	1800	1750	50	2.77	-	-	-	-
<b>District- Ashoknagar</b>									
<b>Kharif Crops</b>									
Urd	Azad-2	575	450	125	21	-	-	-	-
	PU-31	575	450	125	21	-	-	-	-
Mung	TJN-3	525	475	50	9.52	-	-	-	-
Soybean	JS 95-60	1500	1425	75	5	1495	1080	415	27
<b>Rabi Crops</b>									
Gram	JAKI-9218	1425	1250	175	12	-	-	-	-
	JG-14	1240	1180	60	4.8	-	-	-	-
Mustard	PM-30	910	775	135	14	-	-	-	-
	RVM-2	885	750	135	14	-	-	-	-
	RH-0749	898	760	138	15	-	-	-	-
Linseed	AZAD-1	765	710	55	7	-	-	-	-
<b>District- Rajgarh</b>									
<b>Kharif Crops</b>									
Urd	PU-31	610	425	185	30	-	-	-	-
	Azad-2	640	530	110	17	-	-	-	-
Soybean	JS 9560	1320	1242	78	6	1350	1150	200	15
	RVS 2001-4	-	-	-	-	1375	1200	175	13
<b>Rabi Crops</b>									
Gram	JAKI -9218	1480	1260	220	15	-	-	-	-
	JG-6	1510	1380	130	9	-	-	-	-
	RVG-203	1522	1372	150	10	-	-	-	-
	JG-14	1465	1290	175	12	-	-	-	-
Mustard	RH-0749	1321	1124	197	15	-	-	-	-
	NRCHB-101	1350	1235	115	9	-	-	-	-
Linseed	AZAD-1	910	840	70	8	-	-	-	-
Til	GT-351	-	-	-	-	620	530	90	15

**SOIL HEALTH SCHEME STATUS: VISITED DISTRICTS****Physical progress report of Soil Testing for Macro & Micro Nutrient**

(Unit in Nos.)

S. No.	District	Nutrient Type	Annual Target	Sample Received	Sample Analysed
1	Bhopal	Macro Nutrient	16286	16778	15066
		Micro Nutrient	16286	16778	15066
2	Vidisha	Macro Nutrient	34750	34750	34192
		Micro Nutrient	34750	34750	34192
3	Ashoknagar	Macro Nutrient	20350	20350	17551
		Micro Nutrient	-	-	-
4	Rajgarh	Macro Nutrient	30976	30976	30976
		Micro Nutrient	30976	30976	30976

**Details of Soil Health Card Distribution**

(Till Jan., 2019)

(Unit in Nos.)

S. No	District	Target	Number Of SHCs			
			No. of sample Received in STLs	Sample Tested	Number Of SHCs Prepared and Distributed amongst Farmers	% sample tested to annual target
1	Bhopal	16286	16778	15066	32001	92
2	Vidisha	34750	34750	34192	99052	98
3	Ashoknagar	20350	20350	17551	30030	86
4	Rajgarh	30976	30976	30976	125000	100

## MADHYA PRADESH: FINANCIAL ASSISTANCE PROVIDED FOR AGRICULTURE MACHINERIES

S.No	Name of Schemes	Name of farm/Irrigation implements & equipments	Categories of farmers based on area	Categories of Farmers		Subsidy Amount (Rs.)	Top up Subsidy (Rs.)	Total Amount (Rs.)
				General	SC,ST & women			
1	SMAM	Multicrop Thresher	Small (1-2 ha)	General	SC,ST & women	40000	-	40000
			Marginal (< 1ha)				-	
			Other (>2 ha)	General		30000	-	30000
2		Raised bed Planter/ Ridge furrow planter	Small (1-2 ha)	General	SC,ST & women	40000	10000	50000
			Marginal (< 1ha)					
			Other (>2 ha)	General		32000		32000
3		Laser Land Leveller	Small (1-2 ha)	General	SC,ST & women	200000	-	200000
			Marginal (< 1ha)					
			Other (>2 ha)	General		160000	-	160000
4		Tractor (08-20 PTO HP , 2WD)	Small (1-2 ha)	General	SC,ST & women	200000	-	200000
			Marginal (< 1ha)					
			Other (>2 ha)	General		160000		160000
5	Tractor (08-20 PTO HP , 4WD)	Small (1-2 ha)	General	SC,ST & women	225000	-	225000	
		Marginal (< 1ha)						
		Other (>2 ha)	General		180000	-	180000	
6	Tractor (20-40 PTO HP , 2WD)	Small (1-2 ha)	General	SC,ST & women	250000	-	250000	
		Marginal (< 1ha)						
		Other (>2 ha)	General		200000	-	200000	
7	Seed drill (9 tines and above)	Small (1-2 ha)	General	SC,ST & women	20000	-	20000	
		Marginal (< 1ha)						
		Other (>2 ha)	General		16000	-	16000	
8	Seed cum fertilizer drill (11 tines)	Small (1-2 ha)	General	SC,ST & women	24100	-	24100	
		Marginal (< 1ha)						
		Other (>2 ha)	General		19300	-	19300	
9	Combined Harvester (Self propelled upto 14ft cutterbar)	Small (1-2 ha)	General	SC,ST & women	856000	-	856000	
		Marginal (< 1ha)						
		Other (>2 ha)	General		685000	-	685000	
10	Combined Harvester (Track, 6-8ft cutterbar)	Small (1-2 ha)	General	SC,ST & women	1100000	-	1100000	
		Marginal (< 1ha)						
		Other (>2 ha)	General		880000	-	880000	
11	Hydraulic Reversible Plough (2 bottom)	Small (1-2 ha)	General	SC,ST & women	70000	-	70000	
		Marginal (< 1ha)						
		Other (>2 ha)	General		56000	-	56000	
12	Hydraulic Reversible Plough (3 bottom)	Small (1-2 ha)	General	SC,ST & women	89500	-	89500	
		Marginal (< 1ha)						
		Other (>2 ha)	General		71600	-	71600	

Source: Dte. of Agril. Engg., Govt. of MP, Bhopal

**MADHYA PRADESH: FINANCIAL ASSISTANCE PROVIDED FOR AGRICULTURE MACHINERIES**

S.No	Name of Schemes	Name of farm/Irrigation implements & equipments	Categories of farmers based on area	Categories of Farmers		Subsidy Amount (Rs.)	Top up Subsidy (Rs.)	Total Amount (Rs.)
				General	SC,ST & women			
13		Mulcher (6 ft)	Small (1-2 ha)	General	SC,ST & women	72800	-	72800
			Marginal (< 1ha)					
			Other (>2 ha)	General		58200	-	58200
14		Raised bed planter with inclined plate planter and shaper (5-7 tines)	Small (1-2 ha)	General	SC,ST & women	90000	20000	110000
			Marginal (< 1ha)					
			Other (>2 ha)	General		70000		
15		Reaper cum binder(Self propelled, 3 wheel)	Small (1-2 ha)	General	SC,ST & women	175000	-	175000
			Marginal (< 1ha)					
			Other (>2 ha)	General		140000		
16		Reaper cum binder(Self propelled, 4 wheel)	Small (1-2 ha)	General	SC,ST & women	250000	-	250000
			Marginal (< 1ha)					
			Other (>2 ha)	General		200000		
17	SMAM	Tractor operated Reaper cum binder	Small (1-2 ha)	General	SC,ST & women	150000	-	150000
			Marginal (< 1ha)					
			Other (>2 ha)	General		120000		
18		Straw Reaper (more than 35 bhp)	Small (1-2 ha)	General	SC,ST & women	130000	-	130000
			Marginal (< 1ha)					
			Other (>2 ha)	General		104000		
19		Power tiller (more than 8 bhp)	Small (1-2 ha)	General	SC,ST & women	85000	30000	115000
			Marginal (< 1ha)					
			Other (>2 ha)	General		70000		-
20		Self propelled crop reaper	Small (1-2 ha)	General	SC,ST & women	75000	-	75000
			Marginal (< 1ha)					
			Other (>2 ha)	General		60000		
21		Winnowing Fan (Tractor Operated)	Small (1-2 ha)	General	SC,ST & women	30000	-	30000
			Marginal (< 1ha)					
			Other (>2 ha)	General		25000		
22		Power harrow	Small (1-2 ha)	General	SC,ST & women	100000	-	100000
			Marginal (< 1ha)					
			Other (>2 ha)	General		80000		

Source: Dte. of Agril. Engg., Govt. of MP, Bhopal

## Financial Assistance provided for Irrigation Implements under the Central and State Schemes

S. No.	Schemes	Components	Categories of farmers	Subsidy amount	Top up Subsidy	Total Amount (Rs.)
1	NFSM	Pump set	All categories	Max. Rs. 10000 or 50 % of total cost	Nil	10000
		Pipeline set		Max. Rs. 15000 or 50% of total cost		15000
		Sprinkler set		Max. Rs. 10000 or 50 % of total cost		10000
		Mobile Rain gun		Max. Rs. 15000 or 50% of total cost		15000
2.	PMKSY Per Drop More Crop (Micro-irrigation)	Sprinkler set	Small & Marginal farmers of all categories	55 % of total cost	Nil	55 % of total cost
			Other farmers of all categories	45 % of total cost		45 % of total cost
		Drip Irrigation	Small & Marginal farmers of all categories	55 % of total cost		55 % of total cost
			Other farmers of all categories	45 % of total cost		45 % of total cost
		Mobile Rain gun	Small & Marginal farmers of all categories	55 % of total cost		55 % of total cost
			Other farmers of all categories	45 % of total cost		45 % of total cost
3.	PMKSY Per Drop More Crop (Other Intervention)	Diesel/Electric Pump		Max. Rs. 10000 or 50 % of total cost		10000
4.	State Micro-Irrigation Scheme	Sprinkler set	All categories small, marginal and other farmer	Max. Rs. 12000 or 80 % of total cost	Nil	12000
		Drip Irrigation		Max. Rs. 40000 or 80 % of total cost		40000
		Mobile Rain gun		Max. Rs. 15000 or 50 % of total cost		15000

**ANNEXURE-VII****MP: PULSES -PREVALENT VARIETIES/ RECOMMENDED VARIETIES (ICAR/SAUS)**

<b>Crops</b>	<b>Prevalent Varieties</b>	<b>Recommended Varieties</b>
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)

## MP: WHEAT (BREAD & DURUM)- RECOMMENDED VARIETIES

Cultivation condition	Bread Wheat varieties	Durum Wheat varieties
<b>Rainfed/Restricted Irrigation</b> (20 <sup>th</sup> October -5 November)	RI 617 (Sujata) (1982), HW 2004 (1997), HI 1500 (Amrita) (2003), JW 3020 (2005), HI 1531 (Harshita) (2006), MP 3211 (2010), MP 3288 (2011), HD 2987 (Pusa Bahar) (2011), DBW 110 (2015), HI 1605 (Pusa Ujala) (2017)	HD 4672 (Malav Ratna) (2000), HI 8627 (Malav Kirti) (2007), HI 8777 (2018)
<b>Timely Sown Irrigated</b> (10 November -25 November)	Sonora 64 (1967), Lerma Rojo (1969), WH 147 (1978), GW 273 (1998), GW 322 (2002), MP 1142 (2007), GW 366 (2007), HI 1544 (Purna) (2008), JW 1201 (2011), JW 3382 (2016)	HI 8381 ((Malavshri) ( 1995), HI 8663 (Poshan) (2008), MPO 1215 (2010), HI 8713 (Pusa Mangal) (2013), HD 4728 (2015), HI 8737 (Pusa Anmol) (2015), (HI 8759 (Pusa Tejas) (2017)
<b>Late Sown, Irrigated</b> (December-January)	GW 173 (1994), DL 788-2 (Vidisha) (1997), MP 4010 (2003), HD 2864 (2005), HD 2932 (Pusa 111) (2008), JW 1203 (2009), JW 1202 (2010), MP 3336 (2013), RAJ 4238 (2016)	-

## COMPARISON OF BREAD AND DURUM WHEAT VARIETIES IN QUALITY

Variety	Protein (%)	Yellow pigment (Luteins)	Zn content (%)	Fe content (%)
<b>Bread wheat (Aestivum)</b>				
Lok 1	10.6	2.3	27.2	35.5
HI 1544 (Purna)	11.5	2.7	30.2	29.9
<b>Durum wheat</b>				
HI 8627 (Malav Kirti)	11.0	5.7	42.1	49.6
HI 8498 (Malav Shakti)	12.5	5.0	40.0	40.0
HI 8663 (Poshan)	11.7	6.5	36.8	47.0
HI 8713 (Pusa Mangal)	11.7	7.2	33.6	35.5
HI 8737 (Pusa Anmol)	12.5	5.38	40.0	38.5
HI 8759 (Pusa Tejas)	11.9	5.70	42.8	42.1

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