

DPD/Pub./TR/17/2016-17

# NATIONAL FOOD SECURITY MISSION

## NATIONAL LEVEL MONITORING (NLMT) REPORT



**STATE-MADHYA PRADESH**

**NLMT-RABI : 2016-17**



सत्यमेव जयते

**GOVERNMENT OF INDIA**  
**MINISTRY OF AGRICULTURE & FARMERS WELFARE**  
**(DEPARTMENT OF AGRICULTURE, COOPERATION & FARMERS WELFARE)**

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## **ABBREVIATIONS**

1. AICRP-All India Coordinated Research Project
2. BISA- Borloug Institute for South Asia
3. CCSAMMN- Sub Mission on Climate Change & Sustainable Agriculture Monitoring, bModelling & Network
4. CDDs- Crop Development Directorates
5. CHCs-Custom Hiring Centre
6. CIAE-Central Institute of Agricultural Engineering
7. CIPHET- Central Institute of Post-Harvest Engineering and Technology
8. CSBD-Cropping System Based Demonstration
9. CSS- Central Sponsored Schemes
10. DES- Directorate of Economics and Statistics
11. DFSMEC-District Food Security Mission Executive Committee
12. DSR-Direct Seeded Rice
13. FLD-Front Line Demonstration
14. GPS-Global Positioning System
15. HYV-High Yielding Varieties
16. ICAR-Indian Council of Agricultural Research
17. IGKVV- Indira Gandhi KrishiVishvaVidyalaya
18. IPM-Integrated Pest Management
19. KVK- KrishiVigyan Kendra
20. MIDH-Mission for Integrated Development of Horticulture
21. MIS- Micro Irrigation System
22. MSP- Minimum Support Price
23. NCIP-National Crop Insurance Programme
24. NDC-National Development Council
25. NGO- Non Governmental Organization
26. NFSM-National Food Security Mission
27. NFSMEC-National Food Security Mission Executive Committee
28. NLMT-National Level Monitoring Team
29. NMAET - National Mission on Agricultural Extension & Technology
30. NMOOP –National Mission on Oilseeds & Oilpalm
31. NMSA- National Mission for Sustainable Agriculture
32. NRM- Natural Resource Management
33. OFWM- Sub Mission on On Farm Water Management
34. PKVY- Paramparagat Krishi Vikas Yojana
35. PMIS- Pradhan Mantri Irrigation Scheme
36. PMKSY-Pradhan Mantri Krishi Sichai Yojna
37. RAD- Rainfed Area Development

38. RCT-Resource Conservation Technology
39. RKVY- Rashtriya Krishi Vikas Yojana
40. RVSKVV- RajmataVijayaraje Scindia Krishi Vishwavidyalaya
41. SAUs-State Agriculture University
42. SDA- State Department of Agriculture
43. SFSMEC-State Food Security Mission Executive Committee
44. SHC- Soil Health Card
45. SHM- Sub Mission on Soil Health Management
46. SMAE-ATMA- Sub Mission on Agriculture Extension- Agriculture Technology  
Management Agency
47. SMSP- Sub Mission on Seed and Planting Material
48. NeGP- National e-governance Plan
49. SI- Statistical Investigator
50. SMAM- Sub Mission on Agriculture Mechanization
51. SMPP- Sub Mission on Plant Protection
52. SRI- System of Rice Intensification
53. STA- Senior Technical Assistant
54. TA – Technical Assistant

## PREFACE

The Government of India, Department of Agriculture, Co-operation and Farmers Welfare, Ministry of Agriculture & Farmers Welfare is implementing various agricultural/development schemes/ programmes like NFSM (*NFSM-Rice, Wheat, Pulses, Coarse Cereals and Commercial Crops*), NMOOP, BGREI, NMSA, RKVY, PKVY, PMKSY, NMAET (SMAM, SMSP & Extension Reforms/ATMA), NHM, PMFBY, SHC, NAM etc. The major crop development interventions during 2016-17 are through NFSM, NMOOP and RKVY. To effectively monitor the implementation of these interventions at the field level, the GOI has constituted National Monitoring Team (NLMT) under the National Food Security Mission. The NLMT comprises of the Director, Crops Development Directorates (Directorate of Pulses Development) as Convener/Team Leader, 03 Principal/Sr. Scientists as Subject Matter Specialist (SMSs) representing ICAR/SAUs and State Mission Director, NFSM/Nodal Officer.

The Terms of Reference (TOR) of the NLMT suggest mandatory monitoring at least once in each crop season (*Kharif, Rabi & Spring/Summer*); to conduct in-depth inspection of the executed activities in consonance to Mission's mandate vis-a-vis Approved Action Plan and to study the "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, and providing analytical report on observations and suggestions/recommendations for further necessary corrections at the level of state stake-holders for better implementation of the Mission and desired mandated outcome.

The Team visited in the state of MP between February 14<sup>th</sup>- 20<sup>th</sup>, 2017. The composition of the Central Monitoring Team was broad based and included the experts from ICAR/SAUs. The Team interacted with the no. of farmers individually and also by organizing *Kisan Gosthies* and inspection of demonstration trials/beneficiaries' farmers. The head/Scientists/KVKs of the concerned districts also accompanied the team in a district. The report has tried to capture the impact of NFSM tetra- ending 2015-16 of XII<sup>th</sup> five year plan in comparison to XI<sup>th</sup> plan.

I am thankful to the Principal Secretary, Agriculture & Director, (Agri.), Govt. of Madhya Pradesh for facilitating the monitoring/visit and the respective Vice Chancellors of RVSKVV, Gwalior and JNKVV, Jabalpur for nominating experts/SMSs to represent the NLMT.

I acknowledge the sincere efforts of my technical officers/team in compilation of the report in its present form.

**Bhopal (M.P.)  
March, 2017**

**(A.K.Tiwari)  
Director**

# NATIONAL MONITORING TEAM (NLMT) REPORT ON THE IMPLEMENTATION OF NATIONAL FOOD SECURITY MISSION, RABI, 2016-17 (WHEAT, PULSES, COARSE CEREALS 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 foodgrains production was 259.29 million tonnes, a hike of 42 MT additional production from the base year 2006-07. An Additional increase of 11, 19 and 2.89 million tonnes under rice, wheat and pulses respectively was recorded. Increase in per hectare yield of pulses was 87 kg (612 kg to 699 kg/ha) while increase in wheat and rice was 469 kg (3177 kg/ha) and 272 kg/ha (2393 kg).

1.2 During 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.

1.2.1 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).

1.2.2 A target of an additional production of 25 million tonnes of food grains i.e. from 259.29 MT to 284.29 MT over XI Plan comprising Rice-10 million tonnes, Wheat- 08 million tonnes, Pulses- 04 million tonnes & Coarse Cereals-03 million tonnes, is targeted to be achieved at the end of 12<sup>th</sup> Plan (2016-17). The II<sup>nd</sup> advanced estimate records a total foodgrains production of 271.98 MT comprising wheat (96.64 MT) Rice (108.86), Pulses (22.14 MT) and Coarse Cereals (44.34 MT). An Additional increase of 3.56, 1.76, 5.05 and 2.33 million tonnes under rice, wheat, pulses and coarse-cereals respectively was recorded.

1.2.3 The existing Centrally Sponsored Scheme have 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 2016-17, the

revamped NFSM under State Plan Scheme – Krishi Unnati Yojana (State Plan) with interim sharing pattern of 60:40 between Central and State is under implementation in 29 states. A total Share of Rs. 2852.92 Crores (excluding commercial crops) with a central share- 1786.22 and state share-1066.71 crores has been approved during 2016-17. For pulses Rs. 1790.05 crores (central - 1101.90 + state-688.15 crores); for rice Rs.

533.02 crores (central- 346.26+ state-186.76 crores); for wheat Rs. 240.10 crores (central- 151.36+ state- 88.74) crores and for coarse cereals 289.75 crores (central- 186.70+ state- 103.05 crores).

- 1.2.4 The total NFSM allocation For Madhya Pradesh during 2016-17 was Rs.562.64 crores (GoI Rs. 337.58 + state Rs.225.05 crores). NFSM-Pulses had a amount Rs. 379.50 crores (GoI Rs. 227.70 + State- Rs. 151.80); Additional Pulses Rs. 101.00 crores (GoI Rs. 60.60 + State- Rs. 40.40), NFSM-Rice 24.39 crores (GoI Rs 14.63 + State-Rs. 9.76); NFSM-Wheat 38.80 crores (GoI Rs - 23.28+ State Rs.- 15.52 ); coarse cereals 17.43 crores (GoI Rs - 10.46 + State Rs. 6.97), NFSM-Sugarcane 0.33 crores (GoI Rs- 0.198 + State Rs- 0.132) & cotton 1.19 crores (GoI Rs - 0.714 + State Rs - 0.476 crores).
- 1.3 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 Cropping System Based Demonstrations (CSBD) with technical backstopping of ICAR/ (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.
  - 1.3.1 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).
  - 1.3.2 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.
  - 1.3.3 Strengthening of infrastructure at ICAR/SAUs/ATARI/KVKs by *Breeder seed production programme, Seed hubs, Establishment/Strengthening of Bio-fertilizer & Bio-control production units & Cluster Front Line Demonstrations.*

## 2. AREA OF OPERATION (2016-17)

Sl. No.	Commodities(Crops) /districts Criteria	All India		Madhya Pradesh Districts (nos.)
		States (nos.)	Districts (nos.)	
i.	NFSM-Wheat <ul style="list-style-type: none"> <li>• General state- (A &gt;50000 ha; Y&lt;state's ave.)</li> <li>• Hill States- (A&gt;15000 ha) (HP, J&amp;K and UK)</li> </ul>	11	126	16
ii.	NFSM- RICE <ul style="list-style-type: none"> <li>• General state- (A &gt;50000 ha; Y&lt;state's ave.)</li> <li>• Hill States- (A&gt;15000 ha) (HP, J&amp;K and UK)</li> <li>• NE states (except Assam) – (A- with atleast 5000 ha)</li> </ul>	25	206	8
iii.	NFSM-Pulse (All districts)	29	638	51
iv.	NFSM- Coarse cereals ( <i>maize, small millet, pearl millet etc.</i> ) (districts covering 70% of total state's area)	28	265	16
v.	NFSM-Commercial Crops <ul style="list-style-type: none"> <li>• Cotton</li> <li>• Sugarcane</li> <li>• Jute</li> </ul>	15 13 09		10 13 -

(A-Area; Y- Yield)

## 3. MONITORING MECHANISM / MISSION STRUCTURE

Monitoring	Body	Composition	Review Meeting / Visit
National Level	i) General Council (GC)	Minister of Agriculture - Chairman Mission Director - Member (NFSM) Secretary	Twice a year
	ii) NFSM- Executive Committee (NFSMEC)	Secretary (AC & FW)- 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 (NLMT)	Director CDDs- Co-ordinator Scientist SAUs/JDA –Member	Twice a year (Kharif + Rabi)



Monitoring	Body	Composition	Review Meeting /Visit
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 – Member NABARD – Member IISS/CIAE/NISR/DWR - Member	Twice a year (Kharif + Rabi)
District Level	District Food Security Mission Executive Committee (DFSMEC)	District Collector/CEO-Chairman Jila Parishad DDA/DAO- Member Secretary	Quarterly

#### 4. COMPOSITION OF NLMT

The Team was represented by the following representatives Dr. P.C. Mishra, Principal Scientist (Wheat) JNKVV also represents following committees as member-

- “Institute Management Committee” DWR (IIWBR), Karnal;
- “Seed Rolling Plan” for Central India;
- “Diagnostic Team for Central India;
- “Monitoring Team of National Coordination Trials”;
- “Central Co-ordination Committee” for research in M.P.;
- Ex-Member of team for finalizing “Research Programme of BISA”.

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 –Convenor and Team leader Email- <a href="mailto:dpd.mp@nic.in">dpd.mp@nic.in</a> Mobile - 9425010489
ii.	Jawaharlal Nehru Krishi Vishwavidyalaya ZARS, Powarkheda, District- Hoshangabad,(M.P.)	Dr. P.C. Mishra Principal Scientist (Wheat) Email- <a href="mailto:p.c_mishra@rediffmail.com">p.c_mishra@rediffmail.com</a> Mobile-9425358473 - Member

S. No.	Organization	Names and Designation
iii.	Jawaharlal Nehru Krishi Vishwavidyalaya, College of Agriculture, Adhartal, Jabalpur, (M.P.)	Dr. A. K. Bhowmick Prof. & Head (Entomology) Email- <a href="mailto:dr.bhowmick@gmail.com">dr.bhowmick@gmail.com</a> Mobile- 9424313301 - Member
iv.	Rajmata Vijayaraje Schindhya Krishi Vishwavidhyalaya, RAK College of Agriculture, Sehore (M.P.)	Dr. M.K. Saxena Senior Scientist, AICRP- MULLARP Email- <a href="mailto:mukesh1861964@gmail.com">mukesh1861964@gmail.com</a> Mobile- 9425082622 - Member
v.	Government of Madhya Pradesh Deptt. of Farmers Welfare and Agriculture Development, 2 <sup>nd</sup> floor Vindhyachal Bhavan, Bhopal- 462004 (Sagar Division)	Mission Director (represented by Joint Director, Sagar Division) E-mail- <a href="mailto:diagri@mp.gov.in">diagri@mp.gov.in</a> <a href="mailto:dagnfsm@mp.gov.in">dagnfsm@mp.gov.in</a> <a href="mailto:zmagrisag@mp.gov.in">zmagrisag@mp.gov.in</a> Phone -0755-2551336/ 07582-222810 - Member

## 5. STATE PROFILE

Particulars		Status	
Population	(crore)	7.27	(male- 3.77, female-3.50)
Population growth	(%)	20.35 – 2011	
Revenue districts	(nos.)	51	
Block/ Janpad Panchayat	(nos.)	313	(89 tribal blocks)
Village Panchayats	(nos.)	23006	
Tehsils	(nos.)	364	
Total Villages	(nos.)	54903	
Krishi Upaj Mandi	(nos.)	520	
Annual Rainfall	(ave.)	1200 mm	
<b>Land Use Pattern</b>		<b>( Area : lakh ha)</b>	
Geographical Area	<b>307.56</b>	Net sown area	154.55
Cultivable area	158.72 (51.60%)	Double Cropped Area	77.78
Forest area	85.88 (27.92%)	Gross cropped area	232.33
Land under non-agricultural use	19.92 (6.48%)	Kharif Area	123.04
Permanent pastures	13.48 (4.38%)	Rabi Area	106.42
Cultivable wasteland	8.67 (2.82%)	Cropping Intensity	150 %
Barren and uncultivable land	14.06 (4.57%)		
Current fallows	7.69 (2.50%)		

Particulars		Status			
<b>Operational Land Holding (Census,2011)</b>		<b>(Area: lakh ha, Nos.- lakh)</b>			
<b>Average Size of Social Groups</b>	<b>Avg. Size (ha)</b>	<b>Numbers</b>		<b>Area</b>	
Marginal (< 1 ha)	0.49	38.91	(43.85%)	19.15	(12.09%)
Small (1 to 02 ha)	1.42	24.49	(27.60%)	34.66	(21.89%)
Semi Medium (02 to 04 ha)	2.73	16.55	(18.65%)	45.10	(28.48%)
Medium (04 to 10 ha)	5.76	7.89	(8.90%)	45.45	(28.70%)
Large (10 ha & Above)	15.73	0.89	(1.00%)	14.00	(8.84%)
<b>Total</b>	<b>1.78</b>	<b>88.73</b>		<b>158.36</b>	
<b>Irrigation (Area: lakh ha)</b>		<b>Sources of Irrigation (Area : lakh ha)</b>			
Net irrigated area	85.50 (64%)	Canals	10.91 (17.14 %)		
		Tanks	1.49 (2.34 %)		
		Open wells	24.03 (37.75%)		
Gross irrigated area	89.65	Bore wells/ Tube Wells	17.93 (28.17%)		
Rainfed area	60%	Other Sources	9.29 (14.60 %)		
		<b>Total Irrigated Area</b>	<b>63.65</b>		
<b>Soil Type (Area - lakh ha)</b>					
Alluvial Soil	33.5	Deep Medium black soils	162.1		
Shallow & Medium Black Soil	30.6	Mixed Red & Black Soil	81.1		
<b>Major Agricultural Crops</b>					
<b>Kharif</b>	Soyabean, Paddy, Pigeonpea. Urdbean, Moongbean, Maize, Jowar, Cotton				
<b>Rabi</b>	Wheat, Gram, Lentil , Field Pea, Mustard, Linseed				
<b>Development Programme CSS / CS</b>					
<b>NFSM</b>	NFSM-Paddy (8) ; Wheat (16) ; Pulses (51); Coarse Cereals (16); Cotton (10); Sugarcane (13) PMT District-51				
<b>NMOOP</b>	Mini Mission I- (Oilseeds) Mini Mission III- (TBOs)				

## 6. MAJOR CROPS SCENARIO

### Production Performance : NFSM Period ( XI<sup>th</sup> – XII<sup>th</sup> Plan)

The NFSM interventions during XI<sup>th</sup> – XII<sup>th</sup> plan had direct impact on production and productivity of cereals, pulses, oilseeds and also the commercial crops viz; cotton and sugarcane. The crop-wise details on cereals, pulses, oilseeds and cotton are given below.

#### 6.1 Kharif Crops

(Area: Lakh ha, Prod. Lakh tonnes, Yield kg/ha)

Crop	State	XI Plan (2007-08 to 2011-12)			XII Plan** (2012-13 to 2015-16)			Increase/decrease over XI plan (%)		
		A	P	Y	A	P	Y	A	P	Y
<b>Kharif Season's Crops</b>										
<b>A. Cereals</b>										
Paddy	MP	15.90	16.56	1042	19.97	32.06	1605	25.62	93.60	54.11
	<b>All India</b>	<b>436.53</b>	<b>972.49</b>	<b>2228</b>	<b>338.47</b>	<b>1054.21</b>	<b>3115</b>	<b>-22.46</b>	<b>8.40</b>	<b>39.81</b>
Jowar	MP	4.57	5.93	1298	2.41	4.33	1798	-47.26	-26.94	38.54
	<b>All India</b>	<b>73.42</b>	<b>69.71</b>	<b>949</b>	<b>59.56</b>	<b>51.70</b>	<b>868</b>	<b>-18.88</b>	<b>-25.84</b>	<b>-8.57</b>
Bajra	MP	1.72	2.79	1622	2.18	4.28	1963	26.67	53.30	21.02
	<b>All India</b>	<b>91.24</b>	<b>92.03</b>	<b>1009</b>	<b>72.14</b>	<b>86.54</b>	<b>1200</b>	<b>-20.94</b>	<b>-5.96</b>	<b>18.94</b>
Maize	MP	8.49	11.32	1333	9.86	19.39	1967	16.12	71.29	47.51
	<b>All India</b>	<b>85.46</b>	<b>197.78</b>	<b>2314</b>	<b>89.04</b>	<b>231.24</b>	<b>2597</b>	<b>4.19</b>	<b>16.92</b>	<b>12.22</b>
S. Millet &Ragi	MP	2.80	0.84	300	1.80	0.81	452	-35.73	-3.23	50.57
	<b>All India</b>	<b>22.07</b>	<b>25.35</b>	<b>1149</b>	<b>18.54</b>	<b>22.57</b>	<b>1217</b>	<b>-15.99</b>	<b>-10.96</b>	<b>5.99</b>
Kharif C.Cereals	MP	17.59	20.88	1187	16.57	28.64	1728	-5.81	37.15	45.60
	<b>All India</b>	<b>215.04</b>	<b>299.54</b>	<b>1393</b>	<b>185.79</b>	<b>264.94</b>	<b>1426</b>	<b>-13.60</b>	<b>-11.55</b>	<b>2.37</b>
<b>Total Cereals</b>	<b>MP</b>	<b>33.49</b>	<b>37.44</b>	<b>1118</b>	<b>92.42</b>	<b>200.89</b>	<b>2174</b>	<b>175.96</b>	<b>436.55</b>	<b>94.43</b>
	<b>All India</b>	<b>708.73</b>	<b>1363.22</b>	<b>1923</b>	<b>983.58</b>	<b>2388.01</b>	<b>2428</b>	<b>38.78</b>	<b>75.17</b>	<b>26.22</b>
<i>#Kharif Coarse Cereals incl. (Jowar, Bajra, Maize, Ragi &amp; Small Millets)</i>										
<b>B. Pulses</b>										
Arhar	MP	4.06	2.57	633	5.24	4.55	869	28.97	77.04	37.27
	<b>All India</b>	<b>37.9</b>	<b>26.64</b>	<b>703</b>	<b>38.49</b>	<b>28.66</b>	<b>745</b>	<b>1.56</b>	<b>7.58</b>	<b>5.93</b>
Urd	MP	5.15	1.83	355	7.55	3.98	527	46.68	117.53	48.30
	<b>All India</b>	<b>23.24</b>	<b>10.99</b>	<b>473</b>	<b>25.49</b>	<b>13.31</b>	<b>522</b>	<b>9.68</b>	<b>21.15</b>	<b>10.46</b>
Moong	MP	0.83	0.27	325	1.30	0.57	437	57.05	110.99	34.35
	<b>All India</b>	<b>26.41</b>	<b>10.5</b>	<b>398</b>	<b>22.81</b>	<b>9.07</b>	<b>397</b>	<b>-13.61</b>	<b>-13.66</b>	<b>-0.06</b>
*Other Pulses	MP	0.28	0.08	286	0.02	0.08	3750	-92.86	-6.25	1212.50
	<b>All India</b>	<b>23.98</b>	<b>9.13</b>	<b>381</b>	<b>62.11</b>	<b>28.79</b>	<b>464</b>	<b>159.02</b>	<b>215.34</b>	<b>21.74</b>
<b>Total Pulses</b>	<b>MP</b>	<b>10.32</b>	<b>4.75</b>	<b>460</b>	<b>14.28</b>	<b>9.17</b>	<b>642</b>	<b>38.39</b>	<b>93.07</b>	<b>39.51</b>
	<b>All India</b>	<b>111.53</b>	<b>57.37</b>	<b>514</b>	<b>104.12</b>	<b>57.95</b>	<b>557</b>	<b>-6.65</b>	<b>1.01</b>	<b>8.20</b>
<i>*Other Pulses incl.(Moth bean, Kulthi, Other &amp; Other Pulses)</i>										
<b>C. Total Oilseeds</b>										
Soybean	MP	53.45	61.37	1148	59.56	60.76	1020	11.43	-1.00	-11.15
	<b>All India</b>	<b>95.7</b>	<b>111.6</b>	<b>1166</b>	<b>113.27</b>	<b>85.92</b>	<b>759</b>	<b>18.36</b>	<b>-23.01</b>	<b>-34.95</b>
Groundnut	MP	2	2.56	1280	2.20	3.48	1583	9.95	35.96	23.66
	<b>All India</b>	<b>58.15</b>	<b>74.06</b>	<b>1274</b>	<b>49.70</b>	<b>69.88</b>	<b>1406</b>	<b>-14.53</b>	<b>-5.64</b>	<b>10.40</b>
Sesamum/ Til	MP	2.46	1.12	455	3.26	1.70	521	32.66	51.84	14.45
	<b>All India</b>	<b>19.07</b>	<b>7.38</b>	<b>387</b>	<b>17.77</b>	<b>7.69</b>	<b>433</b>	<b>-6.79</b>	<b>4.22</b>	<b>11.81</b>
Niger/ Ramtil	MP	1.15	0.24	209	0.71	0.25	349	-38.17	3.44	67.30
	<b>All India</b>	<b>3.87</b>	<b>1.08</b>	<b>279</b>	<b>2.39</b>	<b>0.90</b>	<b>377</b>	<b>-38.31</b>	<b>-16.67</b>	<b>35.08</b>
<b>Total Oilseeds</b>	<b>MP</b>	<b>59.06</b>	<b>65.29</b>	<b>1105</b>	<b>65.73</b>	<b>66.19</b>	<b>1006.90</b>	<b>11.30</b>	<b>1.38</b>	<b>-8.92</b>
	<b>All India</b>	<b>176.79</b>	<b>194.12</b>	<b>1098</b>	<b>183.13</b>	<b>164.39</b>	<b>897.66</b>	<b>3.59</b>	<b>-15.31</b>	<b>-18.25</b>
Cotton	MP	6.44	13.15	2042	5.61	19.45	3468	-12.93	47.87	69.82
	<b>All India</b>	<b>105.05</b>	<b>283.82</b>	<b>2702</b>	<b>122.23</b>	<b>339.36</b>	<b>2776</b>	<b>16.35</b>	<b>19.57</b>	<b>2.76</b>

## 6.2 Rabi Crops

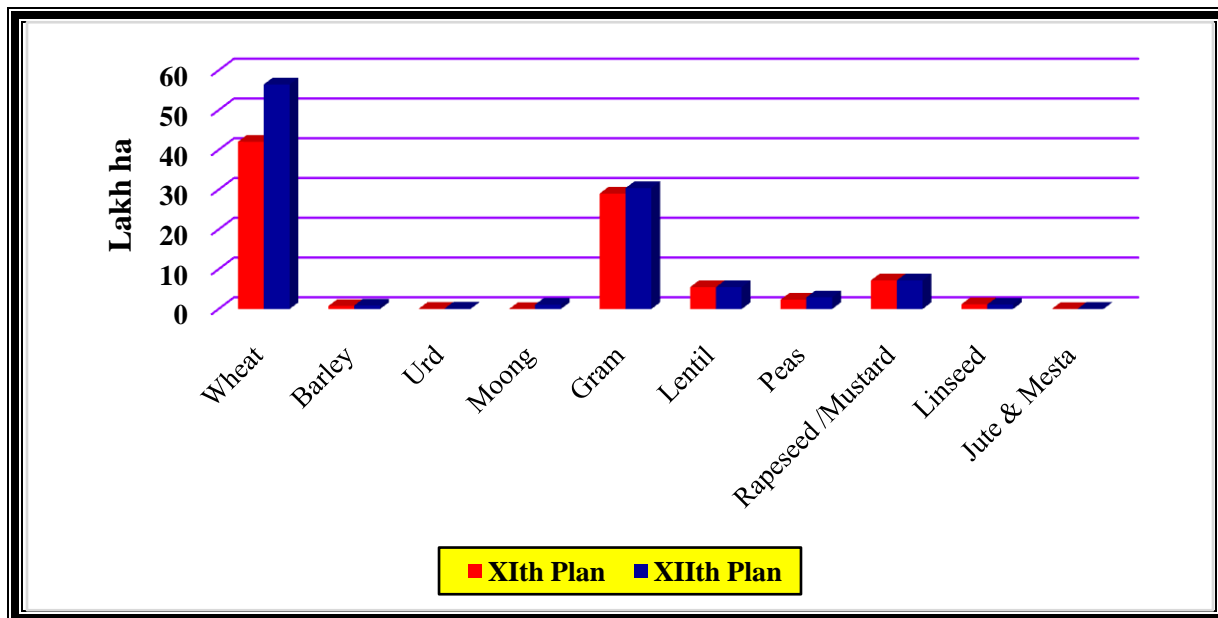
Crop	State	XI Plan (2007-08 to 2011-12)			XII Plan** (2012-13 to 2015-16)			Increase/decrease over XI plan (%)		
		A	P	Y	A	P	Y	A	P	Y
<b>Rabi Seasons</b>										
<b>A. Cereals</b>										
Wheat	MP	42.07	80.26	1908	56.48	152.16	2694	34.26	89.58	41.19
	All India	<b>286.38</b>	<b>843.65</b>	<b>2946</b>	<b>305.40</b>	<b>923.46</b>	<b>3024</b>	<b>6.64</b>	<b>9.46</b>	<b>2.64</b>
Barley	MP	0.75	1.02	1363	0.88	1.42	1613	17.20	38.98	18.32
	All India	<b>6.58</b>	<b>15.06</b>	<b>2289</b>	<b>6.66</b>	<b>16.75</b>	<b>2514</b>	<b>1.29</b>	<b>11.25</b>	<b>9.82</b>
Total Cereals	MP	42.81	81.28	1898	56.16	141.08	2512	31.19	73.57	32.35
	All India	<b>292.95</b>	<b>858.71</b>	<b>2931</b>	<b>403.74</b>	<b>1177.97</b>	<b>2918</b>	<b>37.82</b>	<b>37.18</b>	<b>-0.46</b>
<b>B. Pulses</b>										
Urd	MP	0.07	0.02	348	0.12	0.06	543	69.64	222.50	56.08
	All India	<b>7.63</b>	<b>3.99</b>	<b>524</b>	<b>8.21</b>	<b>6.26</b>	<b>762</b>	<b>7.62</b>	<b>56.89</b>	<b>45.49</b>
Moong	MP	0.03	0.01	239	1.10	0.52	474	3555.83	5100.00	98.38
	All India	<b>6.95</b>	<b>3.05</b>	<b>443</b>	<b>9.57</b>	<b>5.68</b>	<b>594</b>	<b>37.64</b>	<b>86.23</b>	<b>34.03</b>
Gram	MP	29.04	27.61	951	30.40	33.35	1097	4.67	20.79	15.37
	All India	<b>82.18</b>	<b>72.42</b>	<b>881</b>	<b>87.62</b>	<b>82.15</b>	<b>938</b>	<b>6.62</b>	<b>13.43</b>	<b>6.42</b>
Lentil	MP	5.5	2.33	424	5.50	3.36	611	0.00	44.21	44.08
	All India	<b>14.64</b>	<b>9.6</b>	<b>655</b>	<b>13.90</b>	<b>10.93</b>	<b>786</b>	<b>-5.05</b>	<b>13.85</b>	<b>20.05</b>
Peas	MP	2.34	0.96	412	2.94	2.45	833	25.64	155.21	102.27
	All India	<b>7.16</b>	<b>6.22</b>	<b>869</b>	<b>11.50</b>	<b>10.36</b>	<b>901</b>	<b>60.61</b>	<b>66.56</b>	<b>3.67</b>
*Total Pulses	MP	37.49	31.25	834	40.67	40.22	989	8.49	28.70	18.56
	All India	<b>133.57</b>	<b>104.52</b>	<b>783</b>	<b>139.11</b>	<b>120.08</b>	<b>863.19</b>	<b>4.15</b>	<b>14.89</b>	<b>10.24</b>
<i>*Total Pulses incl. (Kulthi, Lathyrus &amp; Other Pulses)</i>										
<b>C. Total Oilseeds</b>										
Rapeseed /Mustard	MP	7.22	7.69	1065	7.19	7.95	1106	-0.39	3.41	3.82
	All India	<b>61.01</b>	<b>68.85</b>	<b>1128</b>	<b>61.40</b>	<b>72.59</b>	<b>1182</b>	<b>0.65</b>	<b>5.43</b>	<b>4.80</b>
Linseed	MP	1.19	0.46	390	1.12	0.57	508	-6.07	23.39	30.20
	All India	<b>3.8</b>	<b>1.57</b>	<b>413</b>	<b>2.93</b>	<b>1.44</b>	<b>491</b>	<b>-22.98</b>	<b>-8.48</b>	<b>18.87</b>
*Total Oilseeds	MP	8.43	8.16	968	8.48	8.6	1014	0.59	5.39	4.77
	All India	<b>90.95</b>	<b>95.36</b>	<b>1048</b>	<b>83.54</b>	<b>97.15</b>	<b>1163</b>	<b>-8.15</b>	<b>1.88</b>	<b>10.97</b>
Sugarcane	MP	0.68	28.07	41023	0.87	<b>38.53</b>	44470	27.43	37.27	8.40
	All India	<b>47.14</b>	<b>3258.3</b>	<b>69119</b>	<b>50.22</b>	<b>3512.09</b>	<b>69929</b>	<b>6.54</b>	<b>7.79</b>	<b>1.17</b>
Jute & Mesta	MP	0.02	0.02	855	0.06	0.04	641	178.75	78.75	-25.00
	All India	<b>9.09</b>	<b>110.86</b>	<b>12193</b>	<b>8.23</b>	<b>111.34</b>	<b>13523</b>	<b>-9.42</b>	<b>0.43</b>	<b>10.90</b>
<i>*Total Oilseeds include: Safflower, Sunflower &amp; Castor</i>										

Source: DES, M/A & FW, GoI \*\* IV<sup>th</sup> Advance estimate (\*Average of 2012-13 to 2015-16, tetra ending 2015-16)

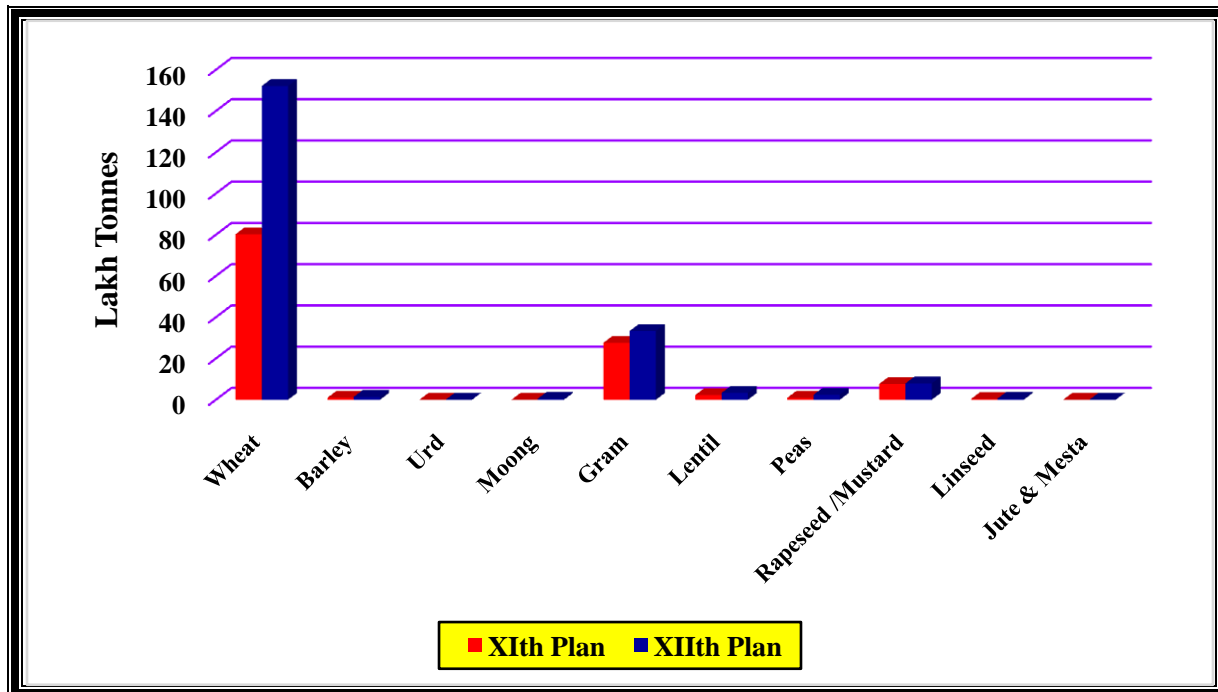
The comparative analysis of crop performance during the XI<sup>th</sup> Plan period and Tetra ending 2015-16 of the twelfth plan (Para 6.1 & 6.2 above) reveals that the NFSM interventions since 11<sup>th</sup> Plan has paid dividends in the production and yield of Paddy which is 94% and 54% higher during Tetra ending 2015-16 over its previous five year Plan. Similarly, the production and productivity of wheat has also increased to 90% and 41% during Tetra ending 2015-16. A quantum jump has been recorded under pulses under all kharif pulses such as Arhar where productivity level of 869 kg/ha could be realized over the XI<sup>th</sup> Plan productivity of 633 kg/ha which is approx. 37% increase. Similarly increase in productivity approx. 48% in Urd & 34% in Mung over the XI<sup>th</sup> plan period during kharif as well as all pulses of rabi season also shown remarkable increase in productivity depicted in above table. Also observed noticeable productivity increase in Cotton which is approx. 70 %, however, area declined during the period.

# CROPS SCENARIO: RABI (XI<sup>TH</sup>-XII<sup>TH</sup> PLAN)

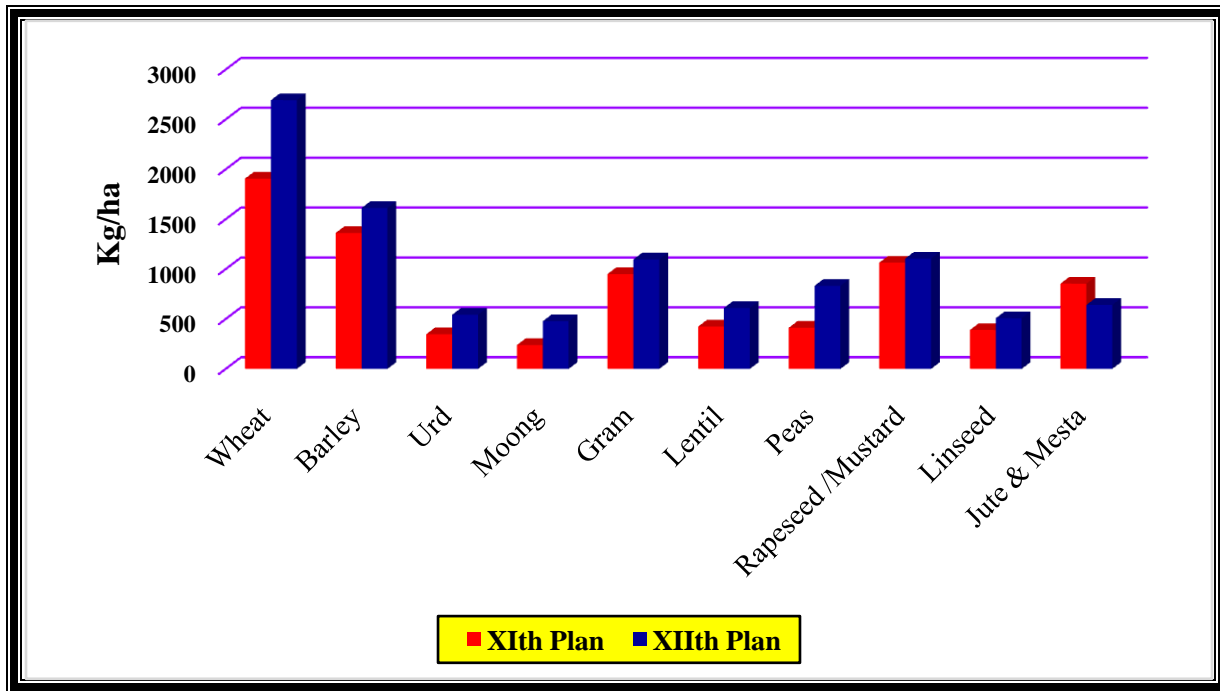
## AREA



## PRODUCTION

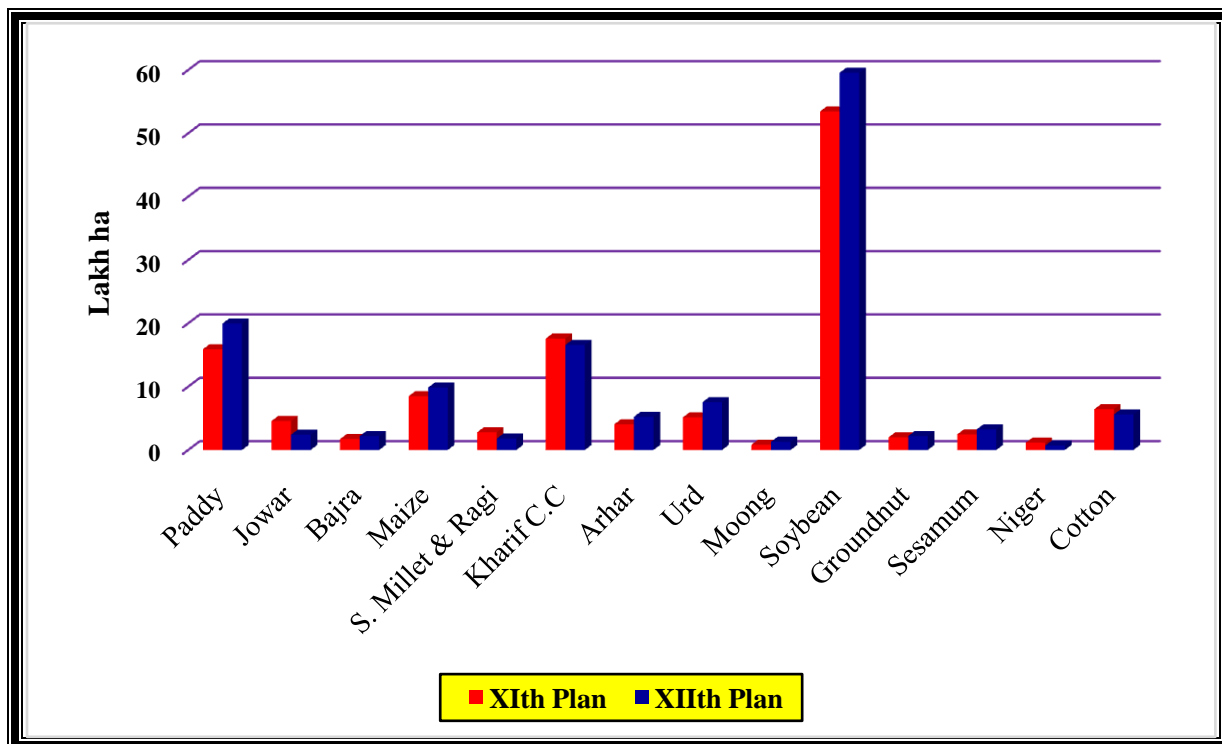


## YIELD

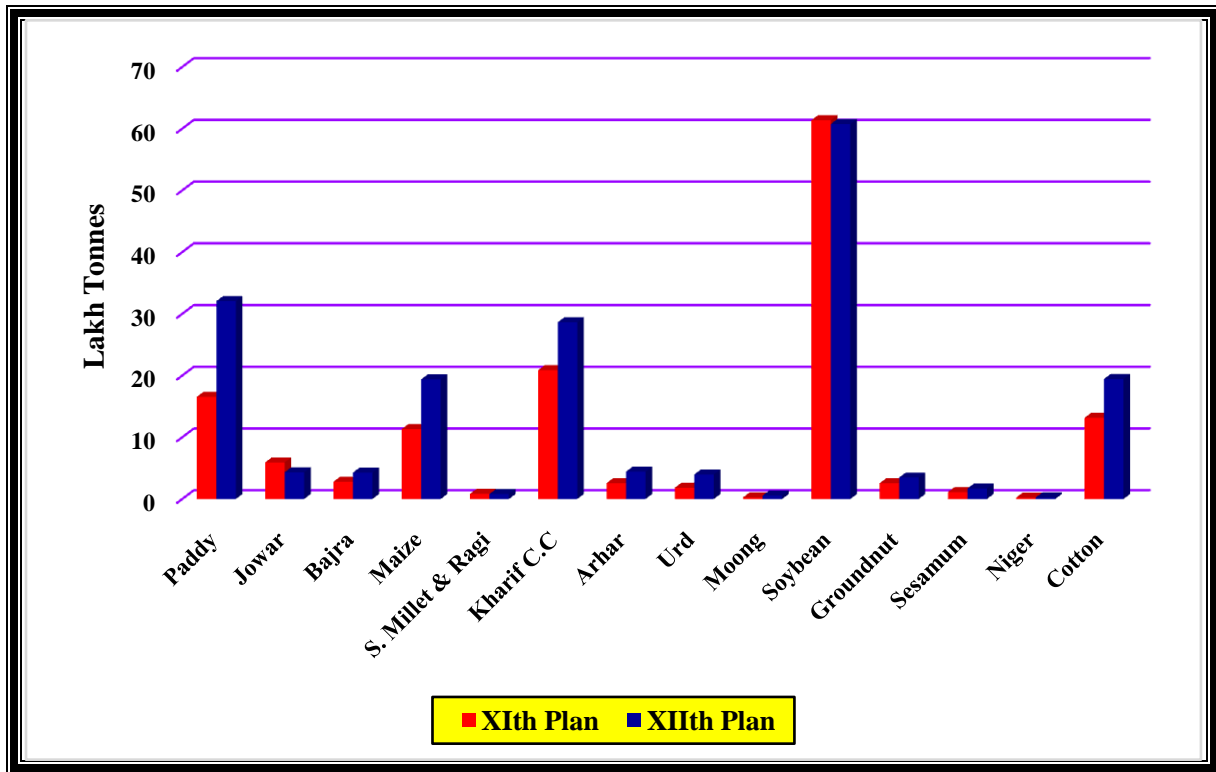


## CROPS SCENARIO: KHARIF (XI<sup>TH</sup>-XII<sup>TH</sup> PLAN)

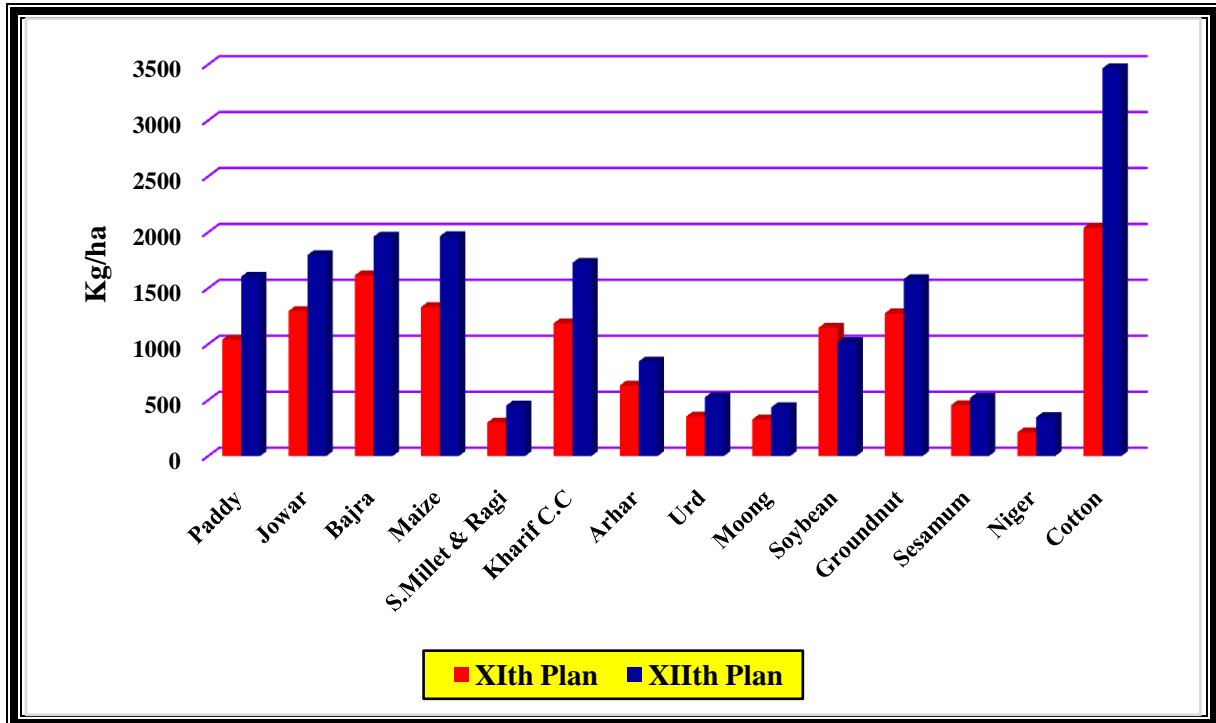
## AREA



## PRODUCTION



## YIELD





## 7. PRODUCTION PERFORMANCE OF CROPS DURING NFSM (2007-08 to 2016-17) over PRE NFSM PERIOD (2006-07)

The production performance from base year 2006-07 to terminal year of XII<sup>th</sup> plan 2016-17 revealed that the cereals, pulses & oilseeds have shown increasing production trend at National level as well as in the State of Madhya Pradesh. Increment observed/noticed many folds in M.P. against the National increment of the production which has been depicted under Table below.

(Prod:- Lakh tonnes)

Crops	2016-17#		2006-07		% change over	
	MP	All India	MP	All India	MP	All India
<b>A. Cereals</b>						
Paddy	41.57	1088.56	13.68	933.60	204	17
Wheat	177.78	966.43	73.26	758.10	143	27
Coarse Cereals*	45.62	443.42	18.50	339.24	147	31
Total Cereals	264.98	2498.41	105.44	2030.94	151	23
Coarse Cereals incl. Jowar, Bajra, Maize, Ragi, Barley, Other Minor Millets						
<b>B. Pulses</b>						
Pigeon pea	7.82	42.29	2.20	23.14	255	83
Gram	35.49	91.23	24.13	63.34	47	44
Urd	7.38	28.92	1.54	14.40	379	101
Mung	1.01	21.26	0.26	12.23	288	74
Pea	4.84		0.9	6.15	438	-100
Lentil	6.66		2.59	9.13	157	-100
OKP*	0.17	8.68	0.1	7.00	70	24
ORP	8.13	28.99	0.31	22.90	2521	27
Total Pulses	71.49	221.37	32.03	158.29	123	40
* OKP incl. kulthi, Pea & Lentil record has not reported by DES deptt. During 2016-17						
<b>C. Oilseeds</b>						
Soybean	70.48	141.25	47.85	88.51	47	60
Groundnut	4.33	84.72	1.93	48.64	124	74
Sesamum	2.19	8.21	0.66	6.18	233	33
Niger	0.30	0.85	0.26	1.21	15	-30
Mustard	8.02	79.12	6.93	74.38	16	6
Linseed	0.59	1.42	0.49	1.68	20	-16
OKO*	0.08	18.25	0.006	11.28	1233	62
ORO**	0.150	2.137	0.006	11.02	2400	-81
Total Oilseeds	86.15	335.96	58.13	242.90	48	38
OKO*- Inc. Castor & Sunflower						
ORO**- Incl Sunflower & Safflower						
<b>D. Commercial Crops</b>						
Cotton	21.00	325.07	8.29	226.32	153	44
Jute & Mesta	0.07	100.63	0.02	112.73	250	-11
Sugarcane	49.53	3099.84	28.06	355.2	77	773
Total Commercial Crops	70.60	3525.55	36.37	694.25	94	408

Source: DES, M/A & FW, GoI, # - (IInd Advance Estimate, 2016-17 for Kharif and Ist advance estimate for Rabi)

## 8. TARGET/ACHIEVEMENT

### 8.1 Crop Scenario: Rabi- 2016-17

(A-lakh ha, P-lakh tons, Y-kg/ha)

Crop	AREA			Change over 2015-16	PRODUCTION			Change over 2015-16	YIELD		
	2015-16	2016-17			2015-16	2016-17			2015-16	2016-17	Change over 2015-16
		Target	Achi. *			Target	Achi. *				
Wheat	59.11	64.22	64.22	5.11	184.10	148.00	210.06	25.96	3115	3271	156
Barley	0.97	00	1.20	0.23	2.85	1.70	3.63	0.78	2938	3025	87
Other Minor Millets	0.01	0.70	0.17	0.16	0.01	0.00	0.18	0.17	1000	1059	59
Gram	30.17	31.65	32.22	2.05	33.64	35.60	37.70	4.06	1115	1170	55
Peas	4.50	5.23	5.05	0.55	4.19	00	4.84	0.65	931	958	27
Lentil	9.31	6.10	5.74	-3.57	5.46	00	6.66	1.2	586	1160	574
Other rabi Pulses	0.38	0.50	0.48	0.1	0.42	7.80	0.53	0.11	1105	1104	-1
Rapeseed & Mustard	6.17	6.20	7.08	0.91	6.66	9.00	8.02	1.36	1079	1133	54
Linseed	1.16	1.12	1.21	0.05	0.55	0.60	0.59	0.04	474	488	14
Others Oilseeds	0.15	0.35	0.44	0.29	0.07	0.30	0.21	0.14	467	477	10
Sugarcane	1.03	1.12	0.92	-0.11	5.28	51.00	54.48	49.2	5126	59217	54091
<b>Total Rabi</b>	<b>112.96</b>	<b>117.16</b>	<b>118.73</b>	<b>5.77</b>	<b>243.23</b>	<b>254.74</b>	<b>277.37</b>	<b>34.14</b>	<b>2153</b>	<b>2336</b>	<b>183</b>

Source: SDA, Govt. of MP, \*I<sup>st</sup> Advance Estimates-2016-17

### 8.2 Crop Scenario: Kharif- 2016

(A-lakh ha, P-lakh tons, Y-kg/ha)

State/Crop	AREA				Change over 2015	PRODUCTION			Change over-2015	YIELD		
	2015	2016		2015		2016		2015		2016	Change over-2015	
		Target	Achi. *			Target	Achi. *					
Paddy	20.24	21.24	22.60	2.36	52.31	35.10	72.55	20.24	2584	3210	626	
Jowar	2.05	2.73	2.20	0.15	4.10	5.00	4.63	0.53	2000	2105	105	
Bajra	2.67	2.32	2.80	0.13	6.33	4.60	6.79	0.46	2371	2404	33	
Maize	10.98	11.00	12.63	1.65	31.06	20.00	43.32	12.26	2829	3430	601	
Kodo-Kutki & Others	1.80	2.08	1.85	0.05	1.05	1.10	1.30	0.25	583	703	120	
Tur	5.79	7.79	6.90	1.11	5.78	5.80	10.45	4.67	998	1514	516	
Urd	9.32	11.00	11.68	2.36	3.37	4.70	10.75	7.38	362	920	558	
Moong	1.93	2.50	2.25	0.32	0.41	1.00	1.01	0.60	212	449	237	
Kulthi	0.14	0.00	0.14	0.00	0.04	00	0.04	0.00	286	286	0	
Other Kha. Pulses	00	0.22	0.20	0.20	0.00	0.20	0.13	0.13	0	650	00	
Groundnut	2.36	2.40	2.55	0.19	3.12	4.00	4.49	1.37	1322	1761	439	
Soybean	59.06	56.50	54.01	-5.05	38.40	68.00	70.48	32.08	650	1305	655	
Sesamum	3.65	4.90	3.80	0.15	1.97	1.60	2.58	0.61	540	679	139	
Niger seed	0.80	0.00	0.74	-0.06	0.26	0.35	0.30	0.04	325	405	80	
Sunflower	0.00	0.00	0.02	0.02	0.00	0.00	0.02	0.02	0	1000	00	
Other Oilseeds	0.00	0.80	0	0.00	0.00	0	00	0.00	0	0	00	
Jute & Mesta	0.00	0.00	0.08	0.06	0.07	0.00	0.07	0.00	0	1167	00	
Cotton	6.15	5.72	6.01	-0.16	12.53	20.00	20.41	7.88	2037	3407	1370	
<b>Total Kharif</b>	<b>126.34</b>	<b>131.20</b>	<b>130.44</b>	<b>4.10</b>	<b>161.12</b>	<b>171.48</b>	<b>236.47</b>	<b>75.35</b>	<b>1275</b>	<b>1813</b>	<b>538</b>	

Source: SDA, Govt. of MP, \*II<sup>nd</sup> Advance Estimates-2016-17

## 9. CROP DEVELOPMENT SCHEMES/PROGRAMMES IN MADHYA PRADESH

Details of Centrally Sponsored Schemes which are under implementation in MP during 2016-17 are given under (Table-9.3).

### 9.1 Allocation & Expenditure of NFSM (2015-16)

(Rs. in Lakh)

Crop/ Scheme	Allocation	Revalidation	Release	Total Fund available	Expenditure	Unspent Balance as on 01.04.2016
Paddy	1415.89	676.26	798.75	1475.01	486.33	988.68
Wheat	4010.67	1094.64	2005.42	3100.06	1652.57	1447.49
Pulses	18647.15	3087.31	9323.50	12410.81	10682.62	1728.19
Addl. Pulses	9583.00	1808.44	9583.33	11391.77	5736.54	5655.23
Coarse Cereals	1140.00	602.29	570.42	1172.71	365.24	807.47
Cotton	0.00	46.95	54.17	101.12	0.00	101.12
Sugarcane	31.52	4.56	15.00	19.56	13.25	6.31
<b>Total</b>	<b>34828.20</b>	<b>7320.45</b>	<b>22350.59</b>	<b>29671.04</b>	<b>18936.55</b>	<b>10734.49</b>

### 9.2 Allocation & Expenditure of NFSM (2016-17)

(Rs. in Lakh)

Crop/ Scheme	Allocation	Release (GoI+State)	Expenditure	% Utilization
Paddy	2439.01	515.18	405.33	78.68
Wheat	3879.77	320.85	626.14	195.15
Pulses	37949.94	19597.10	5587.70	28.51
Addl. Pulse	10100.00	10100.00	-	0.00
Coarse Cereals	1743.00	303.43	227.26	74.90
Cotton	119.03	00.00	-	-
Sugarcane	32.96	10.17	6.17	60.67
<b>Total</b>	<b>56263.71</b>	<b>30846.73</b>	<b>6852.60</b>	<b>22.21</b>

### 9.3 Centrally Sponsored Schemes-2016-17-Tentative Expenditure III<sup>rd</sup> Quarter

(Rs. in Lakh)

S. No.	Schemes	Allocation 2016-17	Total Amount Available (Release + UB)			Expenditure Ending December, 2016	% Exp. against total amount available
			GOI share	State share	Total (GoI+State)		
1	NFSM	56263.71	18508.03	12338.70	30846.73	6852.60	22
2	NMOOP	16097.00	4829.09	3219.39	8048.48	1869.20	23
3	RKVY	43933.40	26360.00	17573.30	43933.40	13163.00	30
4	<b>NMAET</b>						
a)	SMAE-ATMA	5200.03	2970.03	2230	5208.03	2343.61	45
b)	SMSP	2806.36	2242.97	1495.31	3738.28	676.03	18
c)	NeGP	-	0.00	57.41	57.41	0.00	0
d)	SMAM	-	-	-	-	-	
e)	SMPP	-	-	-	-	-	
<b>Total</b>		<b>8006.39</b>	<b>5213.00</b>	<b>3782.72</b>	<b>9003.72</b>	<b>3019.64</b>	<b>34</b>
5	<b>NMSA</b>						
a)	RAD	1873.23	1123.94	749.29	1873.23	308.80	16
b)	SHM	1601.61	4194.88	2423.25	6618.13	560.00	8
c)	OFWM	-	2675.72	1783.75	4459.37	497.40	11
d)	CCSAMMN	-	0.00	0.00	0.00	0.00	
e)	SHC	2747.08	1907.13	1271.42	3178.55	1128.88	36
f)	PKVY	-	1826.81	1217.87	3044.68	2439.92	80
<b>Total</b>		<b>6221.92</b>	<b>11728.48</b>	<b>7445.58</b>	<b>19173.96</b>	<b>4935.00</b>	<b>31</b>
7	PMIS	-	0	0	0	0	
8	<b>Horticulture</b>						
a)	Medicinal Plant Mission	44.08	496.38	0.00	496.38	383.57	77
b)	MIDH	906.37	2062.00	0.00	2062.00	1937.29	94
c)	PMKSY	3556.97	25368.10	0.00	25368.10	16845.60	66
d)	RKVY	1315.03	2980.52	0.00	2980.52	2980.52	100
	<b>TOTAL</b>	<b>5822.45</b>	<b>30907.00</b>	<b>0.00</b>	<b>30907.00</b>	<b>22146.98</b>	<b>72</b>
<b>Total CSS</b>		<b>136344.87</b>	<b>97545.60</b>	<b>44359.69</b>	<b>141913.29</b>	<b>51986.42</b>	<b>37</b>

## 10. PLACES OF VISIT/ACTIVITIES

District	Village/Block	Events organized / activities exhibited to NLMT	Remarks/observations
Sagar	Divisional office Sagar	Briefing Meeting with Divisional officers / District officers and other Stake holders/agencies involved in the programme implementation.	<ul style="list-style-type: none"> <li>• A total of 3200 ha cluster demonstration under pulses (Gram-2300+ Lentil-900 ha) and 900 ha under wheat was the targeted demonstration during the year under report.</li> <li>• SCO, ASCO (MPSSCA), DDA (Sagar), ZM- (MARKFED), Manager (MP Agro IDC), Assistant Engineer (Dte. of Agri. Engg.), Rep. of HDFC/ERGO (PMFBY) etc. participated.</li> <li>• RCT/Machinery component is implemented by 03 state agencies namely- MPAIDC, MARKFED &amp; Dte. of Agri. Engg.</li> <li>• Sagar, an important district of Bundelkhand is devoid of regular DDA office premise &amp; also constrained with the staff. Although a building constructed under Bundelkhand Package (<i>Bundelkhand Prashashnik Bhavan</i>) is locked and unutilized.</li> <li>• Poor utilisation of funds is attributed to switching over to DBT, poor documentation/support of PACS in providing individual Aadhar A/c details of seed grower/beneficiaries of seed production/Breeder seed/distribution of seeds etc. to DDAs.</li> </ul>

District	Village/Block	Events organized / activities exhibited to NLMT	Remarks/observations
Sagar	Divisional office Sagar	Briefing Meeting with Divisional officers/District officers and other Stake holders/agencies involved in the programme implementation.	<ul style="list-style-type: none"> <li>• Decentralised input sale counter (prescribed under crop cafeteria), is a good initiative of Manager.</li> <li>• MPAIDC Chhatarpur, which could have been replicated.</li> <li>• Good publicity work &amp; co-ordination for implementation of PMFBY.</li> </ul>
	Vill-Khakaria (Block-Devari)	Farmer's interactions/ meeting, farm mechanization, visit of integrated farming and micro-watershed.	<ul style="list-style-type: none"> <li>• 272 minor stop dam/check dam /Micro-watershed (MIT, Balram talab) developed over a period of time (1996 onwards), the cropping intensity of the area has increased.</li> <li>• Bunds have been used for cultivation of tur (var. Asha, Shankar).</li> <li>• The village is good success story of rain water harvesting, CI, crop diversification etc.</li> <li>• Interacted with beneficiary farmers S/Sh. Damodar Byari, (9977163870) and Rajaram, (9575684263).</li> </ul>
	Vill.-Sarkheda (Block-Devari)	NFSM- Wheat Cluster demonstration.(var-JW-3211)	<ul style="list-style-type: none"> <li>• Sown on Dec- 26<sup>th</sup>; seed rate- 100 kg/ha +ZnSO<sub>4</sub> @ 25 kg+ Boron @ 10 kg+ PSB culture + Azotobacter 5 packets each + weedicide 2,4-D.</li> <li>• Total 06 demonstrations of 1 ha each with 06 beneficiaries. Three irrigations have been provided. The farmer proposes to give 3 more irrigations.</li> <li>• <i>MP-3211(120-125 days) is within sharbati group and recommended for rainfed area, first fortnight of november is the optimum time for sowing of this variety. Only 2 irri. (1<sup>st</sup>- CRI stage + 2<sup>nd</sup>- flowering stage).</i></li> </ul>

District	Village/Block	Events organized / activities exhibited to NLMT	Remarks/observations
Sagar	Vill- Karrapur (block- Sagar)	NFSM- Gram Cluster demonstration (var- JG-6)	<ul style="list-style-type: none"> <li>• Total 50 beneficiaries (@ 1 ha each) are covered under this cluster.</li> <li>• Line sowing followed, crop condition is good.</li> <li>• 75 kg seed per ha has been provided, the other inputs had to be purchased by the beneficiaries and the reimbursement, if the vouchers submitted to the department, proposed to be reimbursed through DBT.</li> <li>• <i>For full package demonstration, the prescribed input cafeteria needs to be applied as per the recommendations.</i></li> </ul>
Tikamgarh	Office of the DDA, (Collectorate), Tikamgarh	<ul style="list-style-type: none"> <li>• Briefing meeting with DDA/Stake-holders/agencies (MPAIDC, MARKFED-DMO, KVK, SSC/ SS Certification/ HDFC- ERGO Crop Insurance</li> <li>• Involved in the programme implementation.</li> </ul>	<ul style="list-style-type: none"> <li>• A total of 500 ha cluster demonstration under pulses (Gram-400+ Lentil-100 ha) and 600 ha under wheat was the targeted demonstration during the year under report.</li> <li>• Tikamgarh had an area of 1.22 lakh ha under wheat.</li> <li>• Gobar gas system is promoted with the subsidy through DBT @ Rs. 9000/- for General and Rs. 11000 for SC/ST category.</li> <li>• A total of 15 Custom Hiring Centres are working in the district.</li> <li>• KVK seed hub target during Rabi may not be achieved.</li> <li>• The district State Seed Certification has planned to increase the area under ridge-furrow planting method at the rate of 1 acre/seed society.</li> <li>• It's a very good move of the stakeholder agency towards technology transfer/mechanization.</li> </ul>

District	Village/Block	Events organized / activities exhibited to NLMT	Remarks/observations
Tikamgarh	Vill.- Gudanwara (Samarra)/ block- Tikamgarh	NFSM-Reaper-cum-Binder under (4 wheel drive)	<ul style="list-style-type: none"> <li>• The machinery provided to Shri. Barelal (8889545935) during visit of the NLMT.</li> <li>• Agro-Industries- (cost Rs.4.75 lakh) agency NSK Agro &amp; (subsidy Rs. 1.75 lakh) given and Rs. 3.00 lakh was farmer share.</li> </ul>
Tikamgarh	Vill.- Badgaon block- Tikamgarh	NFSM-Reaper-cum-binder- (Year-2013-14)	<ul style="list-style-type: none"> <li>• Farmer Name- Shri. Radhey S/o- Prayag Yadav</li> </ul>
	Vill.- Alampura block- Tikamgarh	NFSM- Wheat Cluster Demonstration (var. HI-1544)	<ul style="list-style-type: none"> <li>• The Physiological stages is late milking stage, towards dough stage</li> <li>• Seed 1 q @ Rs. 3200 (Farmer share – Rs.400). The other inputs were reported as purchased through farmer, reimbursement proposed through DBT</li> <li>• Expected yield is 35 q/ha as compared to the potential yield is 70-75 qtls/ha.</li> <li>• The team has advised to demonstrate quality technology inputs, use of 50 % N at basal dose; atleast 03 rouging for off types for seed production.</li> <li>• The visited field found with full of off type plants, poor plant population indicating poor quality seed form the seed grower's society</li> <li>• The farmers have been advised to opt rouging for 1/4<sup>th</sup> area of the field to have pure quality seed of the variety demonstrated under the programme for the next season.</li> </ul>



District	Village/Block	Events organized / activities exhibited to NLMT	Remarks/observations
Tikamgarh	Vill.- Gopalpur block-Tikamgarh	NFSM- Wheat Cluster demonstration (var.- HI-1544)	<ul style="list-style-type: none"> <li>• The off type plants were observed and sowing time was not appropriate. The proper package of practices was discussed with the staff and suggested to farmers</li> <li>• 6 bag DAP+ 4 bag urea+ PSB+ Azotobacter, two packets each; (4 bag DAP+ 2 bag urea advised to be used as basal).</li> <li>• Widely accepted Lok-1 wheat variety has been replaced with HI-1544 &amp; GW-322, which are more susceptible to karnal bunt (upto 30% &amp; 22 % respectively). It is therefore suggested to replace these varieties with HI-8627.</li> </ul>
		ATMA-Fieldpea demonstration (var.- Arkel)	<ul style="list-style-type: none"> <li>• Demonstration was in 1 acre with a seed rate of 15 kg seed.</li> <li>• 15 picking have been done at the time of visit.</li> </ul>
		NFSM- Chaff cutter	<ul style="list-style-type: none"> <li>• Shri Pritamjee informed that Chaff cutter was given under subsidy.</li> </ul>
	Vill- Rampura block- Jatara	Nursery Model- Agriculture diversity.	<ul style="list-style-type: none"> <li>• The integrated approach with bee keeping, vegetables, oilseeds, pulses, cereals, spices and orchards was demonstrated.</li> <li>• 12 acre land of zila panchayat has been developed by DDA for crop diversity.</li> <li>• Honey bee keeping has been promoted and the district agriculture department is doing very good work towards crop diversification.</li> <li>• JW-1142 (MP-1142) is also grown in Tikamgarh. This variety has lustrous grain and considered under <i>sharbati category</i>. This is temperature and drought tolerant variety of bundelkhand.</li> </ul>

District	Village/Block	Events organized / activities exhibited to NLMT	Remarks/observations
Tikamgarh	Village- Gaur & Nadia block- Jatara	It's a Sansad Adarsh Gram Yojana village	<ul style="list-style-type: none"> <li>• Under innovative approach ATMA had distributed “Solar Sprayer” in village Gaur and Nadia. In Nadia 95% crop area have been converted from broadcast method of sowing to line sowing. Due to this intervention the yield of black gram and soybean has increased from 5q/acre to 10q/acre through Ridge Furrow system.</li> <li>• Also seen farm of Shri Ganesh which has taken pigeonpea (var. Lakshmi) by Dharwad system, transplanting 20-25 nursery (1x1m distance),and Seed rate was 4 kg seed/acre.</li> <li>• Here the numbers of irrigation were 5-6 resultantly high vegetative growth and poor pod formation.</li> </ul>
Chhatarpur	Vill.-Pahrapurva block-Rajnagar	Briefing meeting with DDA	<ul style="list-style-type: none"> <li>• A total of 1400 ha cluster demonstration under pulses (Gram-1200+ Lentil-200 ha) and 500 ha under wheat was the targeted demonstration during the year under report.</li> <li>• This district of Bundelkhand zone was known for growing traditional “<i>Kathia</i>” wheat exclusively under rainfed condition and it belongs to <i>durum</i> species. The cultivated wheat were having inherent property of tolerating high temperature at grain filling.</li> <li>• AHD department is the weakest link in this block as no animal husbandry work has been done by the department.</li> </ul>

District	Village/Block	Events organized / activities exhibited to NLMT	Remarks/observations
Chhatarpur	Vill.-Pahrapurva block-Rajnagar	NFSM- Wheat cluster demonstration {var. JW (MP) 3288}}	<ul style="list-style-type: none"> <li>• JW (MP) 3288 is a recently released “<i>sharbati</i>” group of wheat variety and has been demonstrated as per scientific recommendation.</li> <li>• Seed drill Sown on Nov. 20, 2016, input used 100 kg seed/ha + 25 kg ZnSO<sub>4</sub>+10 kg Borax + 2,4- D.</li> <li>• The seed treatment which was not done has been advised by the team to follow in future.</li> <li>• Four irrigation has been given from physiological stage to dough stage; expected yield 40 q/ha.</li> <li>• Off-type plants of other varieties were also present in the field, advised to opt rouging.</li> </ul>
	<ul style="list-style-type: none"> <li>• NFSM- Gram cluster demonstration of (var.JG-16)</li> <li>• Disc harrow beneficiary- Smt. Munni Raja</li> <li>• Cost. of the Disk harrow- Rs. 45,000</li> </ul>	<ul style="list-style-type: none"> <li>• Beneficiary farmer - Shri. Kamit Singh (8236074686) has sown gram on Nov. 08, 2016 with the inputs as 75 kg seed + Rhizobium + PSB+ Trichoderma + 25 kg ZnSO<sub>4</sub>.</li> <li>• JG-16 is a new variety should have been sown during October</li> <li>• The crop condition was very good. Physiological stage is Pod formation/grain filling stage.</li> <li>• Crop is likely to be harvested in the third week of March.</li> </ul>	
	Vill.- Akona (block-Rajnagar)	• NFSM- Wheat cluster demonstration {var. JW-3288 (MP) 3288}	• The variety demonstrated in the field of Shri. Sushil Jain (8889537755) and sown in the month of November and Physiological stage was grain formation stage.

District	Village/Block	Events organized / activities exhibited to NLMT	Remarks/observations
Chhatarpur	Vill.- Akona (block-Rajnagar)	<ul style="list-style-type: none"> <li>NFSM- Wheat cluster demonstration {var. JW-3288 (MP) 3288}</li> </ul>	<ul style="list-style-type: none"> <li>The farmer's field as well as demonstrated fields was full of off type plants and purity of variety was lost.</li> <li>The overall crop scenario in the district was very good and many fields have the potential to give more than 50q/ha yield.</li> <li>Pigeon pea varieties Pusa-992, TJT-501 &amp; Asha are being grown in the district.</li> </ul>
Panna	DDA Office	<ul style="list-style-type: none"> <li>Briefing Meeting with DDA</li> </ul>	<ul style="list-style-type: none"> <li>A total of 1900 ha cluster demonstration under pulses (Gram-1200+ Lentil-700 ha) and 300 ha under wheat was the targeted demonstration during the year under report.</li> <li>The traditional durum wheat were cultivated in Panna district exclusively under rainfed condition.</li> <li>Varieties GW 366 and GW 322 were dominating.</li> <li>Team suggested that the variety GW-366 should be replaced with JW-1201 or JW-1203 as it is old variety.</li> </ul>
	Vill.- Padariya (Block-Pavai)	<ul style="list-style-type: none"> <li>NFSM-Cluster demonstration of Lentil (var.-KLS-48)</li> </ul>	<ul style="list-style-type: none"> <li>The crop was sown on Nov. 14, 2016. The performance of variety was very good. Farmer has irrigated the crop hence, vegetative growth of the crop was 90 cm and above (which should have been 50 cm).</li> <li>Expected production is 15 q/ha.</li> </ul>

District	Village/Block	Events organized / activities exhibited to NLMT	Remarks/observations
Panna	Vill.- Padariya (Block-Pavai)	<ul style="list-style-type: none"> <li>• Dug-well under Bundelkhand package</li> </ul>	<ul style="list-style-type: none"> <li>• The well was properly recharged and reported as very successful.</li> </ul>
		<ul style="list-style-type: none"> <li>• NFSM-Cluster demonstration of gram (var.-JG-315)</li> </ul>	<ul style="list-style-type: none"> <li>• The variety is wilt tolerant, no wilt observed. pod filling stage, expected yield 17-20 q/ha.</li> </ul>
		<ul style="list-style-type: none"> <li>• Oil- expeller, Rice-huller</li> </ul>	<ul style="list-style-type: none"> <li>• Oil of mustard, sesame and mahua is extracted in lieu of De-oiled cake.</li> </ul>
	Vill.- Semariya (Block-Pavai)	<ul style="list-style-type: none"> <li>• NFSM-Cluster demonstration of Wheat (var.- GW-366)</li> </ul>	<ul style="list-style-type: none"> <li>• It is Sharbati and Mexican category of wheat. The time of sowing of these varieties was not proper.</li> </ul>
	Village- Mohandara	<ul style="list-style-type: none"> <li>• NFSM- Cluster demonstration of Wheat (var.- GW 366)</li> </ul>	<ul style="list-style-type: none"> <li>• Sowing was done in the month of December which is not appropriate for this variety. The off-type plants were also present in the field.</li> <li>• Input used 100 kg seed/ha +25 kg ZnSO<sub>4</sub> +seed treatment with vitavax+ DAP+ Urea (1 bag each).</li> <li>• The district is diversified with the introduction of pulses (Gram, Arhar and Lentil) and oilseeds (Mustard and Sesame) in considerable areas. Mahua is also planted in large area of interior parts.</li> <li>• The crop condition was good in the district.</li> </ul>
Damoh		Briefing meeting with the DDA	<ul style="list-style-type: none"> <li>• Cultivable area 3.20 lakh ha (2.10 lakh ha kharif + 3.10 lakh ha rabi, Irrigation-54%).</li> <li>• Tanks, tube-wells, dug-wells developed under Bundelkhand package are running successfully.</li> </ul>

District	Village/Block	Events organized / activities exhibited to NLMT	Remarks/observations
Damoh		Briefing meeting with the DDA	<ul style="list-style-type: none"> <li>• 1400 sprinklers have been distributed under Bundelkhand package.</li> <li>• The procurement operation of pulses is continued in the district.</li> <li>• Damage to crops due to gram pod borer and other insect pests has so far been reported.</li> <li>• Major gram var. in the seed chain are JG-11, JG-7, JAKI-9218 etc. IR-64 was main paddy cultivar in the area.</li> <li>• The active seed grower societies in the district are 21 nos.</li> <li>• Almost 80% lentil and field pea has been harvested. Gram will be harvested within 10 days.</li> <li>• 1.72 lakh ha gram, 25000 ha field pea and 32000 ha. lentil has been covered during rabi.</li> </ul>

## 11. OBSERVATIONS

- 11.1 *The total seasonal rainfall* during the current SW monsoon (01.06.2016 to 30.09.2016) was 1073.2 mm which is 13% more as against the state's normal rainfall of 949.1 mm. As per the data, 24 districts received excess, 22 normal and 05 received deficit rainfall.
- 11.2 In general, the overall crop condition in the state as well as the visited districts is quite good and satisfactory and there is opportunity and scope to increase the production and productivity with the effective quality demonstrations and widening of varietal knowledge based and recommended agronomy amongst the farmers. All the crops were free from diseases, insects and pests in all the districts.
- 11.3 The state's normal area (avg. 2012-13 to 2014-15) under rabi crops is about 105 lakh ha. Wheat is a major rabi cereal crop occupying 55 % of the total normal area. This year, as per the WWWR (Weekly Weather Watch Report), wheat has been planted in 62.23 lakh ha which is 3% less against the targeted area of 64.22 lakh ha. The pulses has been planted in 44 lakh ha which is 1 % higher against the targeted area of 43.45 lakh ha. Gram, the major rabi pulse of the state has been planted in an area of 32.52 lakh ha followed by lentil and pea in 5.86 and 4.87 lakh ha area respectively. The area under gram has been higher against the normal and targeted area during the year under report. Rabi crops have been sown in an area of 117.61 lakh hectares which is also above the normal (105 lakh ha) as well as targeted area (117.16 lakh ha).
- 11.4 Major wheat varieties grown in M.P. are - Sujata, C-306, HI-1531 (Harshita), HI-1500 (Amar), HI-8627 (Malaw Kirti), GW-366, GW-322, JW-273, HI-1544 (Purna), HI-8498 (Malaw Shakti) HI 8381 (Malaw Shri), HI 8663 (Poshan), MPO 1106 (Sudha), MPO 1203, MPO 1215, HD 4672 (Malaw Ratna) etc. Durum varieties have only 5 to 6 % area in Madhya Pradesh. The Durum varieties are MPO 1215, HI-8498 which are most popular, matures in 115-120 days with potential yield of 70 q/ha.
- 11.5 Major rabi pulses grown in M.P. are- Chickpea (*Desi*- JG-16, JG- 63, JAKI- 9218, JG -130 *Kabuli*- KAK 2, JGK-1, JGK-2 ), Lentil- JL-3 (Sagar Masara), JL-1, JL-2, Kala Masara, IPL 81 (Noori). The other recommended varieties for lentil in MP are RVL-31, L-4076, PL-8, DPL-62 & the local varieties (non-descript) and under Pea, varieties- Prakash (IPFD 1-10), KPMR-400 (Indra), Malviya Matar (HUDP 15), Rachna, JP-88, Ambika, IPF99-25, JM-6 have been recommended.

- 11.6** Most of the areas under dwarf varieties of wheat have been observed with off-type admixture of tall/other varieties in visited districts. Hence, a short duration seed production training programme/orientation to improve the quality of farm saved seeds is strongly recommended.
- 11.7** In general the Bundelkhand region of MP, especially Sagar district is known for production of *sharbati* wheat. The quality of wheat produced here is incomparable and fetches high market premium in Delhi, Maharashtra and Karnataka *mandies*. The *sharbati* variety cultivated in Sagar is having bold grains, shine, lustre, high protein etc. as compared to other parts of the state viz. Baghelkhand, Mahakoshal, Nimar, central narmada valley or grid region.
- 11.8** The Bundelkhand area is traditionally known for rainfed cultivation. Now significant change is observed in Bundelkhand and elsewhere in the state with the increase in irrigation. The rainfed wheat cultivation scenario is changing in MP. The wheat is cultivated with one, two or more irrigations.
- 11.9** There were many fields showing the yield potential of 35 to 70 q/ha. The area under traditional *sharbati* wheat variety C 306 is decreasing continuously and being replaced by HW 2004, JW 3288, HI 1500, JW3211 etc.
- 11.10** It was observed that GW 322 variety is being cultivated even with two irrigations, while this is recommended for adequate irrigation (4 to 5).The selection of variety as per availability of number of irrigations and time of sowing is not proper. This practice is hampering the yield significantly.
- 11.11** Two cluster demonstrations at Baraitha, Shahgarh (Sagar) were discussed. The varieties were HI 1544 and HI 8627. The varieties were sown in last week of November and three irrigations have already been provided. The stage of crop indicated the requirement of two more irrigations. The awareness regarding the selection of varieties with availability of water is lacking. Variety HI 8627 is developed for rainfed or one irrigation condition. Variety HI 1544 is for adequate irrigation. Similarly, HI 8627 (durum variety) should have been planted in end of October or early November but was sown with HI 1544. This is waste of input and valuable irrigation water which increases the cost of cultivation. The issue was discussed with staff and farmers.



- 11.12** The irrigation sources have continuously increased during last one and half decade. New technologies of cultivation have come up and the use of micronutrients has also increased. In spite of all these additional resources the productivity of wheat has not increased to desired level in the districts of Bundelkhand as compared to MP/all India. The yield during 2014-15 was 20 q/ha in the Sagar division, comprising five districts of Bundelkhand as compared to state/National yields of 30 q/ha. The matter was discussed with staff and field workers in detail.
- 11.13** The success story was witnessed by observing and discussing the use of machinery by other farmers (with economics) during visit of fields. A good no. of machineries/implements such as tractors, rotavators, seed-cum-fertilizer drill, Reaper-cum-Binder, Laser land leveller, tractor mounted sprayer etc. distributed among the farmers, in addition to the custom-hiring centres by the Directorate of Engineering. Shri Radhey S/o Prayag Yadav, vill- Badagaon (Tikamgarh) Reaper-cum-Binder beneficiary farmer- 2013-14 was extending the custom hiring services to other farmers to generate income.
- 11.14** In district Tikamgarh the team had a proper feedback/briefing meeting involving all stakeholders. The Rampura nursery, developed by the district agriculture department is an excellent model of agriculture diversity. The integrated approach with bee keeping, vegetables, oilseeds, pulses, cereals, spices and orchards have been demonstrated. Similarly, in Nadia village under PKVY program the demonstration under “Bio cluster” was observed. The farmer Amar Chand Prajapati had earned Rs. 2.5 lakhs in one season by cultivating tomato and chilly in one acre only. He has controlled the white fly with self-made “Coconut Chutney”.
- 11.15** The ATMA (Tikamgarh) is converging the NFSM and other CSS/State schemes in enhancing of the area under line sowing through incentivisation. The ridge furrow planting/line sowing has recorded the harvest/yield of (5 q/acre) in blackgram and (10 q/acre) in soybean.
- 11.16** It is concluded that the energetic staff and enthusiastic farmers are making efforts to adopt new technologies and innovations in crops and vegetables. The district Seed certification agency has also joined hands with the DDA to promote line sowing and Furrow Irrigated Raised Bed (FIRB) Technology. The certification has made mandatory to follow FIRB technology for their registered seed growers. It indicates that cumulative efforts may change the scenario of agriculture in the district.

**11.17** This is important to mention that the Tikamgarh district has shown the maximum varietal diversity in wheat. As per information from DDA more than one dozen varieties are under cultivation in the district and has exhibited the example of “Gene Deployment”.

**11.18** Overall crop condition was excellent in the district of Tikamgarh.

**11.19** District Chhatarpur of Bundelkhand zone was known for growing traditional “*Kathia*” wheat exclusively under rainfed condition and it belongs to *durum* species. The cultivated wheat was having inherent property of tolerating high temperature at grain filling stage.

**11.20** In due course of time the dug wells, ponds, nallah came up in districts through different schemes. Farmers left the durum wheat cultivation and switched over to *aestivum* wheat. However, few durum cultivars were collected and maintained in genetic stocks as germplasm by the scientists.

**11.21** It is pleasant to observe that area, production and productivity have increased tremendously in the district of Chhatarpur. Though the soils are light in maximum areas as compared to Sagar and Tikamgarh, the irrigation facilities have changed the scenario of the wheat cultivation.

**11.22** Demonstration of wheat variety JW (MP) 3288 by district chhatarpur is encouraging as the department has introduced recently released new variety. The positive point is the use and adoption of newly developed best variety which can increase the varietal replacement rate in the area. However, this variety should have been sown by first fortnight of Nov., strictly for rainfed or only one irrigation but it was seen that the variety was sown late and three irrigations were already given and the fourth irrigation was also proposed. Delayed sowing hampers the yield, grain quality and also suppresses the boldness of the grain.

Such technological gaps are noticeable at level of the extension officers of the department as this is the loss of Natural resources (irrigation water) and also the likely potential yield. The awareness regarding selection of varieties as per availability of inputs, resources and time of sowing is essential.

**11.23** The quantity of nutrients and micronutrients should be optimized. The farmer’s field as well as demonstrated fields was full of off type plants and purity of variety was lost. However,

the crop condition in the district was good and many fields have the potential to give more than 50q/ha yield.

**11.24** In Panna the black awned tall durum mixed with white awned having hard and long grains was the specialty of the area. The district is having alluvial and light soil. The temperature remains high at the grain filling stage.

**11.25** The change in cultivation, production and productivity of crops is visible through the best use of water from various resources such as wells, ponds and stored water in low lying areas in the fields.

**11.26** The Lok-1 has been replaced by the varieties GW 322 and GW 366 resulting increase in productivity in the district.

**11.27** The cluster demonstration of wheat in Semariya village, block Pavai was visited by the team. Varieties GW 366 and GW 322 were the dominating variety. The time of sowing of these varieties was not proper. The old variety of gram i.e. JG 315 is also being cultivated, while no. of recently developed varieties are available for cultivation.

**11.28** Team visited the village Mohandara, where cluster demonstration of variety GW 366 was laid out. Sowing was done in the month of December which is not appropriate for this variety. The off type plants were also present in the field.

**11.29** It was informed during discussion with staff and farmers that many new varieties viz. JW 3288, JW3211, HI 1544, MPO 1215, JW 12013 are also being cultivated in different pockets of the Panna district. It indicated that the awareness towards the adoption of technologies are increasing.

**11.30** The Panna district is diversified with the introduction of pulses (gram, arhar and lentil) and oilseeds (Mustard and Sesame) in considerable areas. Mahua is also planted in large area of interior parts.

**11.31** Expansion of oil expeller and paddy huller was also observed in the district. The business of oil cakes and paddy straw with the business men of other areas for industrial use is increasing. This practice has generated the employment and income in pockets.

**11.32** Overall, crop condition was good in the district of panna and all farmer friends have been engaged and they are doing very good work.

**11.33 NFSM Seed hub:** A project on creation of Seed Hubs for increasing indigenous production of pulses in India is operational (2016-17 to 2018-19) at 150 locations (ICAR/AICRPs/KVKs) in 24 states at a total budgetary allocation of Rs. 225.31 crores. In M.P. 16 seed hub centres (ICAR/AICRPs-07+ ATARI/KVKs-09) have been targeted to produce 950 tonnes of quality seeds (Rabi-590 tonnes (gram-300 tons+Lentil 150 tons+ Pea- 140 tons); Kharif-360 tons (Pigeonpea -190 +Urd 110 tonnes+ Mungbean- 60 tons). The programme could not be taken up during kharif and hence started during rabi (2016-17) where the targets are likely to be achieved.

**11.34 NFSM ABSP:** A project on Enhancing BSP for increasing indigenous production of Pulses is operational at 12 locations in 08 states, including MP at a total budgetary allocation Rs. 20.39 crores. The ABSP programme is being taken up at ICAR-IIPR RS, Fanda (Allo.-Rs. 275 Lakhs, (works- Rs. 190 lakhs+ SPU- Rs. 35 lakhs+ Implements- Rs. 50 Lakhs), Bhopal, JNKVV, Jabalpur (Allo- Rs. 190 Lakhs- Works Rs. 160 Lakhs+ farm implements Rs. 30 Lakhs) and RVSKVV (Allo. Rs. 92 lakhs- Works Rs. 50 lakhs+ farm implements Rs. 42 Lakhs) Gwalior. Kharif 2016 ABSP all India targets were 124.8 tons (Mungbean- 27.5 tons, Pigeonpea- 80.9 tons+ Urdbean 16.5 tons). The likely production is 160.6 tons. In MP the Kharif BSP targets were 59.15 tons (Mungbean- 5 tons+ Pigeonpea-50.40 tons+Urdbean-3.75 tons) against the all India targets of 125 tons. The production achieved is 39.75 tons (Mungbean- 5 tons+ Pigeonpea-26.70 tons+Urdbean-8.05 tons against the all India production of 158 tons. The varieties considered under the ABSP are – Mungbean- Samrat (PDM-139), IPM 2-3, TMV-37; pigeonpea- TJT-501, ICPL87-119 (Asha), ICPL151; Urdbean- Uttara, PU-35, LBG-20, Azad U-1, Azad U-19. IN MP the ABSP rabi (2016-17) targets were 135.5 tons (Chickpea-116.5 tons + Lentil-9.5 tons+ Field pea-9.5 tons.) against the all India targets of 309.1 tons. The likely production is 385.9 tons (Chickpea- 355.75 tons + Lentil- 8.4 tons+ Field Pea-21.75 tons) against the all India production of 637.35 tons.

The varieties considered Chickpea- JG-14, RVG-202, RVG-201, Shubhra, JG-12, JAKI-9218, JG-63 and RVKG-101, RVG-203; Lentil- IPL-406, IPL-316, JL-3 and RVL-31; fieldpea- Vikas, JP 885, JM 6.

**11.35 Seed Minikits of Oilseeds and Pulses-** The seed minikits of pulses, new components under NFSM has been started since 2016-17 (Kharif-2016). During 2016-17 a total of 15000 numbers of minikits of Urdbean were allocated during kharif, however no minikits have

been supplied. During rabi/summer a total of 12915 nos. of minikits under pulses (Gram-JG-63) and 82483 nos. under NMOOP-oilseeds (Mustard, var. PM-27, PM-30, RGN-73, NRCHB-101, RVM-2, RH-0749) have been allocated.

**11.36 FLD-** During 2016-17 a total of 2620 ha area/ 6550 nos. of demonstrations were targeted during kharif and rabi in pulses against the target 2357 ha/5720 nos (kharif-Pigeonpea, green gram, black gram-1149 ha/2846 nos.; rabi- chickpea, field pea, lentil-1208 ha/2874 nos.) could be achieved.

**11.37** Similarly, the oilseed FLDs by ATARI were also organized (1830 ha/4424 nos.; kharif-1042 (Groundnut, Niger, Sesame, Soybean- 1042 ha/2465 nos. + rabi-Linseed, R/M- 788 ha/1959 nos.). During interactions with the extension officers and KVK Scientists, it is noticed that the department is not aware of such FLDs and there exist an information/communication gap.

**NOTE: All the crops were free from diseases, insects and pests in all the districts.**

### **SWOT Analysis of the State (Including visited Bundelkhand division)**

<b>Strength</b>	<b>Threat</b>
<ul style="list-style-type: none"> <li>• Irrigated area is increasing (Net area-85.5 lakh ha (64%); Gross area-89.65 lakh ha)</li> </ul>	<ul style="list-style-type: none"> <li>• Short winter</li> </ul>
<ul style="list-style-type: none"> <li>• New sources of irrigations are exploited through various schemes and missions</li> </ul>	<ul style="list-style-type: none"> <li>• High temperature regime at grain filling stage</li> </ul>
<ul style="list-style-type: none"> <li>• More than two dozen varieties of wheat under cultivation, unique in country and an example of “Gene Deployment” in the nation; Free from yellow rust; Karnal bunt free area</li> </ul>	<ul style="list-style-type: none"> <li>• Adoption and expansion of Karnal bunt in warmer areas</li> </ul>
<ul style="list-style-type: none"> <li>• Quality of wheat is bold and lustrous grains with high protein content as compared to North India</li> </ul>	<ul style="list-style-type: none"> <li>• Adoption of yellow rust to high temperature</li> </ul>
<ul style="list-style-type: none"> <li>• More than three dozen chickpea varieties including <i>desi</i> and <i>bold</i> seeded</li> </ul>	<ul style="list-style-type: none"> <li>• Erratic monsoon behaviour</li> </ul>
<ul style="list-style-type: none"> <li>• Protein content is high as compared to north India</li> </ul>	<ul style="list-style-type: none"> <li>• Imbalance use of inputs like fertilizers, irrigation, micro-nutrients etc.</li> </ul>
<ul style="list-style-type: none"> <li>• Availability of high fertile black soil</li> </ul>	
<ul style="list-style-type: none"> <li>• Strong seed production program and seed chain in the state</li> </ul>	
<ul style="list-style-type: none"> <li>• Increasing mechanization, custom hiring giving dividends to farmers and also employments to youth in Agriculture.</li> </ul>	

## 12. CONSTRAINTS OBSERVED

- Imbalance use of fertilizer deteriorating soil health.
- Policy of timely procurement and supply of input.
- Increasing nitrogen toxicity in soil and water due to blanket use of urea.
- Lack of awareness regarding soil testing to minimize the use of chemical fertilizers.
- Less adoption of improved varieties due to lack of knowledge and availability of seeds among farmers (low varietal replacement).
- Non adherence of seed production guidelines under cluster demonstrations which suggests mandatory registration of cluster demonstrations fields with the state seed certification. Even 1/4<sup>th</sup> of the total cluster demonstration in a district miss the departmental campaign on seed production advisory like rouging of off-types, maintenance of plant population etc.
- Admixture of off- types plants/varieties which making the produced seed unsuitable for next the season. Farmers are bound to purchase seed every year which is increasing cost of cultivation
- Less and imbalance use of micronutrients along with poor quality of input.
- No/less use of Potash. Sagar, Vidisha, Raisen, Sehore and other districts of Malwa region were known for high Potash content in the soil. Exhaustive cropping system has decreased the availability of Potash. Potash has significant role in making the MP wheat grain unique with shine and lustre.
- Selection of varieties for different sowing time and water availability is improper.
- Method of using fertilizer, irrigation and also the critical stages of these inputs need more extension.
- Proper plant geometry, use of inter-cropping with mechanization keeping in view the IPM is not being fully exploited, need aggressive extension.
- No use of conservation technologies among farmers. The zero tillage technology can avoid the late sowing of crop. It also saves the energy, money and water used during field preparation.
- No use of FIRB technology. This system of cultivation may reduce the seed rate upto 30%. The mechanical weed control is easily possible in furrows. The requirement of fertilizer will also be reduced. Thus the technology can drastically reduce cost of cultivation.

### 13. RECOMMENDATIONS

1. In changing scenario of climatic condition and increasing cost of cultivation, precision technology is required for sustaining the yield especially the wheat & pulses.
2. The team has suggested that in the event of 5 % off-type variety plant in the field, the farmers should be taught to do rouging.
3. Long range of varieties available for different conditions of wheat cultivation, as under, need a seed rolling plan and also adoption of these varieties to demonstrate under the cluster demonstration programme.
4. It is suggested that seed production programme of new wheat varieties (JW-1201 or JW-1203 may be taken by the department).The breeder seed of these varieties is available with JNKVV, ZARS (Powarkheda).
5. After harvest of tur in Dec. last week, late varieties of wheat JW-3336, JW-1203 should be adopted.
6. **Early sowing** (15<sup>th</sup> Oct. to 10<sup>th</sup> Nov.): **rainfed/ one irrigation:** JWS 17, HI 1500, HI 1531, HD 4672 (d), HI 8627 (d), MP (JW) 3020, MP (JW) 3269, JW (MP) 3288, MPO1255 (d) **For two irrigations** (1-20 Nov.): MP (JW) 3211, MP (JW) 3173, JWS 17, HI 1531, MP (JW) 1142, MP (JW) 1202.
7. **Timely sown** (15-30 Nov.): **Adequate irrigation:** HI 1544, GW 322, GW 366, JW (MP) 1201, JW (MP) 1203, MPO 1215 (d), MPO 1106 (d), JW (MP) 3382, HI 8713 (d), HI 8759, HI 8498 (d).
8. **Late sown** (1st Dec. onwards): **Adequate irrigation:** MP (JW) 3336, MP (JW) 4010, MP (JW) 1202, MP (JW) 1203, HD 2864, HD 2932, Raj 4238.
9. **Nutri rich Varieties** (Identified by Ministry of Agriculture): MP 1203, MP 3211, MPO 1215, MP 1202.
10. The cultivation of wheat variety GW 322 and HI 1544 should be discouraged because the incidence of Karnal bunt was 22% and 30% respectively. The tolerance limit for export is 0%.
11. **Poshan** (HI 8663) is being cultivated in the state. It is not recommended for the state. This variety is released for peninsular zone.
12. Variety **MP 1203** is Climatic Hazard Resilient variety. It has shown no lodging even in excess rain at reproductive phase. This variety may be proposed as contingent variety for low lying areas.

13. **MPO 1255** is the first product specific variety of the country and released especially for *pasta products*, may be targeted as branded variety for fetching good income.
14. Seed cum fertilizer drill should be used for sowing. The farmers are still using only seed drill. The fertilizer is mixed with seed during sowing. The scientific report indicates that up to 30% loss in germination is occurred by mixing fertilizer with seed.
15. Recommended dose of nutrients for pulses and wheat must be adopted. The recommendations for wheat is as under-
  - **For adequate irrigation-** 120 : 60 : 30 : kg/ha, NPK
  - **For one irrigation-** 80 : 40 : 20 kg/ha, NPK
  - **Two irrigation-** 100 : 50 : 25 kg/ha, NPK
  - **For rainfed / one irrigation-**60 : 30 : 15 kg/ha, NPK
16. 50 % N and full dose of P &K should be given as basal dose; remaining 50% N should be divided in two doses. 25 kg/ha ZnSO<sub>4</sub> must be used at the time of final preparation of field after three crops.
17. Raised bed system of cultivation even in wheat has exhibited reduction in the cost of cultivation. Similarly zero tillage technology avoids the delay in sowing. The weed control and moisture conservation under these techniques of planting is effective in minimizing the cost of cultivation. The Team recommends to demonstrate this Technology under NFSM.
18. Implementation of Seed Component such as, Purchase of Breeder seed, Production of Foundation & Certified seed and Distribution of Certified Seed etc., need a serious attention of NFSM Head Quarter and JDAs/DDAs .It needs accountability of DDAs in identification of variety for Breeder Seed, and Production of Foundation & Certified Seeds by KVKs- seed hub, SSC and by Seed Grower Societies. The Committee recommends that the districts (DDAs may enter into MoU with the designated seed hub centres namely ICAR/AICRPs, KVKs for the lifting of the quantities of the certified seeds produced under NFSM. This recommendation is important both for sustainability of the seed hubs and in ensuring the quality seed/varieties availability to achieve the targeted cluster demonstrations and of seed component for effective technology transfer/sustainable production.
19. The NLMT recommends to take the advantage of the ABSP components wherein the seeds of the varieties produced in the state may be procured by the directorate of Agriculture, Govt. of M.P. to organize foundation seed production programmes through SSC/State farms/ seed grower foundation. Here, the component of seed production with financial assistance of Rs. 2500/qtls may be used.
20. The seed grower societies may be facilitated and advised to get seed indent of appropriate crop/varieties through seed production of pulses by seed hubs/KVKs/Societies. The efficient societies which are very enthusiastic in production of seeds; must be encouraged in hand holding for the benefits of farming community. The SDA may chalk out the programme accordingly.



21. It is recommended that the SDA may document the district-wise impact of the varieties distributed under seed minikits and also the indenting of the breeder seeds based on the performance of the varieties under minikits for organization of seed production program in the state.
22. In order to benefit from the technological demonstrations organized under pulses and oilseeds through KVKs, the deputy director (Agriculture) may be advised to take the list of such demonstrations from KVKs and should visit/organized field days to learn from each other.
23. Most of the seeds purchased from the grower societies in Bundelkhand division was found with poor germination, off-types/admixture of other varieties.
24. Each district should prepare a 10 year varietal impact of the varieties considered under demonstrations in comparison to local cultivar (Non-descript) of their districts for realistic seed and varietal assessment. This will also help in formulation of district plan.
25. Cluster demonstrations area may be reduced to a maximum of 5 to 10 hectares from existing 100 hectares thereby increasing technology transfer to large representative areas. The field extension staff has appraised that such a big cluster is not practical for pulse crops of Mung, Urd, Lentil and Tur except the major crops of region like Soybean, Gram, Wheat.
26. Cropping System Based Demonstrations (CSBDs) should have direct linking with the recommendation of Integrated farming system/cropping system research of the JNKVV, Jabalpur, and RVSKVV, Gwalior. It is recommended that 50 % of the CSBD should be conducted through or in association with extension department of the university and KVKs.
27. Demonstration based on cropping system (CSBD) which easily can tune with adaptability of farmers are most essential and should be taken seriously rather than introducing new interventions over existing.
28. Self-sustaining seed chain system for seed production is required to ensure availability of seed at village level, as seed has also been observed as a major bottleneck.
29. Documentation of conduction of demonstrations and cropping system based trainings (four sessions i.e. one before kharif and rabi seasons. One each during kharif and rabi crops) should be made mandatory like *GPS based photos of each trial with boards, proof of training programme conduction with photos and paper news-cuttings wherever possible.*
30. All CSS of DAC&FW shall have to utilize PFMS Portal of Controller General of Accounts/Ministry of Finance for entering their Aadhar-seeded beneficiary data with immediate effect as all future releases for CSS / Post March 31<sup>st</sup>, 2017, would be based on

Aadhar linked data bases of beneficiaries. *However, the critical input like seed treating material + PSB + Rhizobium etc costing within Rs.500 to 1000/- per ha per demonstration, could be exempted from DBT with the accountability of its quality and assured utilization at the level of SADO/ADO.* This is important for accurate demonstration of technology.

31. Inputs like bio fertilizers (liquid/carrier based) and micronutrients products prescribed under input cafeteria of the cluster demonstrations have been reported as of poor quality/efficacy. it is therefore suggested that the department may enter into MoU preferably with the state agriculture universities who have been strengthened under RKVY/NFSM in production of bio-fertilizers/bio-agents. This will help the farmers getting a quality product as well as will support the SAUs in sustaining the production of bio-fertilizers/unit in their institution. Similarly micronutrients material should be sampled and got tested separately *in 2-3 standard labs to ensure quality and content of elements (%)*.
32. Trainings/orientation on skill development on secondary agriculture, value addition and marketing orientation for the extension staff of the district level is strongly recommended.
33. *Growth promoters and Tonics* are being used abruptly and applied in combination with pesticides. Similarly the input cafeteria under NFSM should be need based and should be left to the Deputy Director and KVKs of the district.
34. Under Farm mechanization, Seed drill, Rotavator and Diesel pumps etc., are being provided. It is suggested that in view of the Natural Resource Management issues (NRM), Resource conservation technologies (RCT) such as Double Box Seed Drill, Machinery for BBF / Ridge Furrow planting coupled with micro-irrigation system need popularization. The District Agriculture functionaries need orientation in this regard.
35. The increasing awareness in mechanized farming and existing machineries with the farmers is creating the demand of implement Servicing Centre, farmers at present hire the services of technicians from Punjab who are charging @ Rs.50, 000/month during the crop season for repair of combine harvester, reaper etc.
36. The role of the District Agriculture Officers (DDAs) in implementation of seed component under NFSM should not be marginalized. It has been observed that their role is limited to release of the production subsidy.
37. The team strongly recommend the involvement of ATMA, NGOs and KVKs in the conduct of technological demonstrations to ensure the quality of the demonstration.
38. The RCT beneficiaries with > 10,000/- per unit financial assistance under NFSM during 10 years of the NFSM programme (2007-08 to 2016-17) may be documented at district level and be displayed at village panchayat/PACS office/ DMO/MPAIDC and Collectorate to enable the other farmers avail the custom hiring services of implements, to mutually benefit each other (income generation and increase in mechanization).

39. The district may be advised to constitute Machineries' User Group (MUG) for each RCT with a financial assistance of > Rs. 10,000/- such as Multi-crop Planter, Power Tiller, Seed Drill, Power Weeder, Zero-till-Multi crop Planter, Rotavator, Reaper etc.
40. All the 51 districts may be advised to conduct a Joint Impact Assessment Survey (IES) with KVK department + gram panchayat in respect of cost cutting, % increase in mechanization, cropping intensity and employment/income generated due to this intervention between 2007-08 to 20016-17 (XI<sup>th</sup> –XII<sup>th</sup> five year plan of NFSM).
41. The district-wise *Local Initiatives* should be ascertained with 9% of the total budgetary allocation under NFSM as a whole. The *Local Initiatives* may include Augmentation of water resources, Convergence of pulses in PMKSY area, godowns for safe storage of critical inputs post harvest/processing facilities like grader, dehiscing machine, Mini dall mills, promotion of local germplasm (like Begaani arhar grown by baiga tribes of Dindori and Mandla, gulabi chana, Sagar Masara, Local urd of Jhabua etc).
42. In order to ensure precise and quality soil testing (SHC) with sizeable targets of Soil sampling and issuance of SHC provision of sufficient qualified/ trained staff in all labs of the State Deptt. (KVK / SAUs / Mandi Board etc.) should be made as per guidelines given in "*Methods Manual, Soil Testing in India*" of DAC&FW, (Ministry of Agriculture) GOI, New Delhi, 2011. Otherwise maintaining quality of soil analysis would be doubtful / questionable.
43. The Team recommends that sample tested with Mrida Parishak need to be verified with analysis of different standard instruments/equipment and procedure used in soil analysis. At least 2-5 per cent of these samples may be sent to referral lab of SAUs.
44. Field Days should be organized in each & every season with respect to crop condition.
45. Weed management should be mandatory activity and done on the demonstration plot, the programme should be registered under seed production programme, as mandatory for cluster demonstration.
46. The staff appointed under NFSM are engaged only for report preparation, active involvement of Staff (Consultant and TA) appointed under this programme (TA and Consultant) is necessary for effective implementations of NFSM programme.
47. Site selection and Timely availability of inputs reflects on success or failure of programme, proper planning and their execution need a serious attention at district level.

48. The cluster demonstration beneficiaries should also be motivated and facilitated for taking seed production programme of their demonstration plot.
49. Permanent display board should be erected at the cluster demonstration site with all relevant information.
50. Necessary improvement in seed cum fertilizer seed drill is required for solving the chocking problem of fertilizer.
51. Water conservation programme should be implemented in this area. The basic principles of soil and moisture conservation should be followed for increasing water efficiency and getting good yield.
52. Farmers perception of use of more seed rate and more fertilizer to get the more crop yield, need to be changed by demonstrating recommended seed rate and balance fertilizer on the basis of soil type and soil testing report.
53. Use of wilt resistant cultivars of pulses, seed treatment of pulses with Trichoderma, mandatory follow-up of IPM in place of sole dependency on pesticides, is recommended.



**Inspection: NFSM Cluster Demonstration (sole) of Wheat**



**NFSM cluster demonstration of chickpea , distt. Chhatarpur**





**Disc Harrow beneficiary in district Chhatarpur**



**Azolla cultivation in district Chhatarpur**





**NFSM- Reaper-cum-Binder distribution to beneficiary (Cost- Rs. 4.75 lakh, Subsidy- Rs. 1.75 lakh+ Rs. 3 lakh farmer share), Dist.-Tikamgarh**



**Briefing Meeting with DDA and Stakeholders, Distt –Tikamgarh**



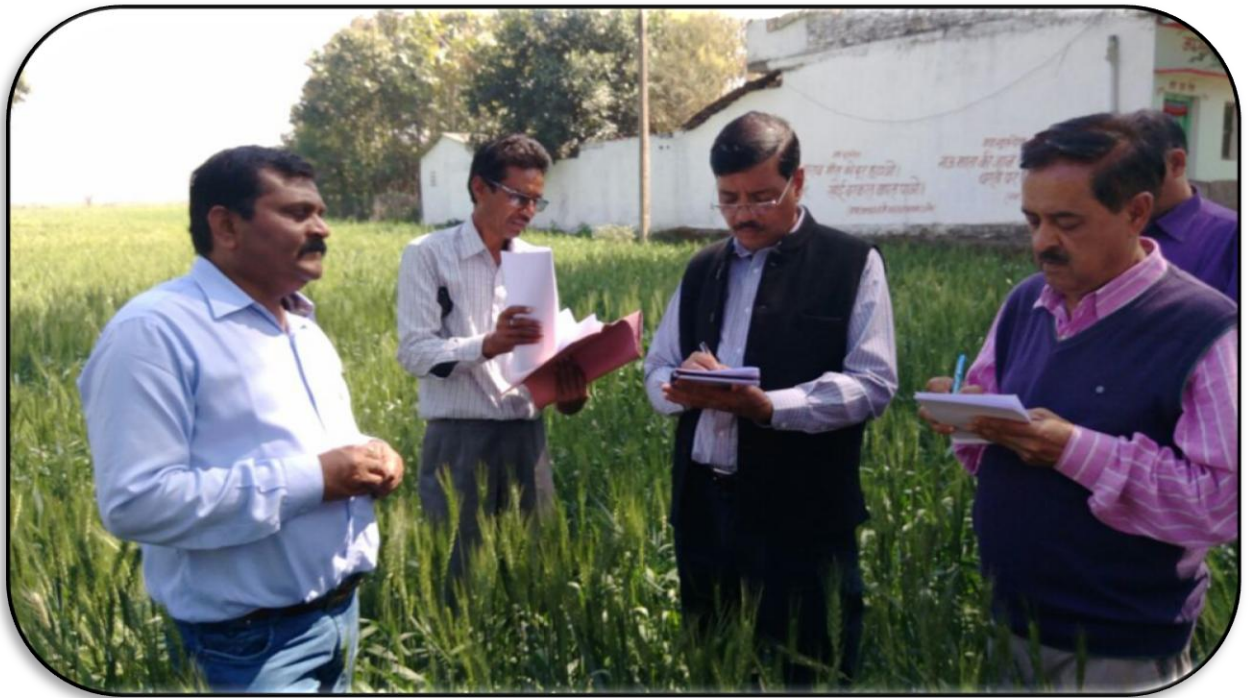


**Pigeonpea demonstration by ATMA, Distt- Tikamgarh**



**NFSM- Wheat cluster demonstration, Distt- Tikamgarh**





**Inspection of Wheat Cluster Demonstration in Mohandra village (Distt. Panna)**



**Inspection of Lentil Cluster Demonstration in Padariya village (Distt. Panna)**





**NLMT visiting domestic level Oil expeller, Distt. Damoh**



**Dugwell under Bundelkhand Package**

# राष्ट्रीय स्तरीय मॉनीटरिंग टीम ने किया जिले का भ्रमण

विभाग ने कृषकों के खेतों पर जाकर नवीनतम गेहूं, चना प्रजाति का किया अवलोकन

छतरपुर। राष्ट्रीय स्तरीय मॉनीटरिंग टीम ने बीते रोज 17 फरवरी को जिले का भ्रमण किया जिसमें राजनगर विकासखण्ड अंतर्गत ग्राम पहरा पुरवा, अकौना, करियाबीजों का दौरा कर विभाग में संचालित राष्ट्रीय खाद्य सुरक्षा मिशन गेहूं एवं दलहन के अंतर्गत के अंतर्गत कृषकों के खेतों पर गेहूं एवं चना की नवीनतम प्रजाति जे.डब्ल्यू.-3288



और जे.जी.-16 के प्रदर्शनों का किया अवलोकन। ग्राम पहरा पुरवा स्थानीय कृषकों दशरथ सिंह, श्रीमती मुन्नी सिंह, कमित सिंह, नन्दलाल पाल के अलावा ग्राम अकौना के सुशील चन्द्र जैन, सुमन कुमार दास, संजय शुक्ला के खेतों पर जाकर राष्ट्रीय स्तरीय टीम ने गेहूं व चना का किया निरीक्षण। टीम में डॉ. एके तिवारी संचालक दलहन निदेशालय भारत

सरकार, डॉ. एके भौमिक, एचओडी कीट विज्ञान कृषि विश्व विद्यालय जबलपुर, डॉ. पीके मिश्रा प्राचार्य साइंसटिस्ट पवारखेड़ा (गेहूं) एवं मुकेश सक्सेना वैज्ञानिक (दलहन) उपस्थित रहे। टीम के द्वारा फसल अवलोकन कर गेहूं फसलोत्पान की लगभग 40 क्विंटल प्रति हेक्टेयर एवं चना में 18 से 20 क्विंटल प्रति हेक्टेयर की दर से अनुमानित

उत्पादन की अनुशंसा की गई। गेहूं की फसल में नई किस्म का चुनाव, प्रदर्शन डालने की विधि तथा उन्हें समय पर तकनीकी सलाह की जानकारी देने से राष्ट्रीय टीम ने की खुशी जाहिर। टीम लीडर डॉ. एके तिवारी द्वारा किसानों को अधिक उत्पादन के लिए आवश्यक सावधानियां रखने की सलाह दी गई। इसके साथ ही दल में शामिल डॉ. एके भौमिक, डॉ. पीके मिश्रा एवं डॉ. एमके सक्सेना ने भ्रमण के दौरान किसानों को तकनीकी बारीकियों की जानकारी से अवगत कराया। भ्रमण दल ने कृषक सुमन कुमार दास के प्रखेत्र पर आयोजित फसल प्रदर्शन, बायोगैस संयंत्र, पशुपालन, एजोला का उत्पादन, वर्मी कम्पोस्ट का उत्पादन, फल उत्पादन कार्यक्रमों का संयुक्त रूप से क्रियान्वयन कर कृषकों को बधाई दी।

NLMT Monitoring News Cutting, Distt.- Chhatarpur

बैठक : किसानों के खाते में अनुदान राशि भेजने में न बरती जाए लापरवाही

## राष्ट्रीय खाद्य सुरक्षा टीम ने खेतों पर पहुंच कर लिया जायजा

टीकमगढ़। नईदुनिया न्यूज

राष्ट्रीय खाद्य सुरक्षा मिशन की पांच सदस्यीय टीम ने गुरुवार को दोपहर कृषि विभाग के अधिकारियों के साथ समीक्षा बैठक में किसानों से जुड़ी हर बिंदु की जर्हा जानकारी हासिल की, वहीं किसानों के खेतों में पहुंचकर भी फसल का जायजा लिया। अधिकारियों ने किसानों से कहा कि वह ऐसी फसल बोएं जिसमें उन्हें अच्छा मुनाफा प्राप्त हो सके।

कृषि विभाग कार्यालय में आयोजित समीक्षा बैठक में राष्ट्रीय खाद्य सुरक्षा मिशन टीम के निर्देशक डॉ. एके तिवारी, डॉ. एके भौमिक, डॉ. पीसी मिश्रा तथा डॉ. एमके सक्सेना ने विभागीय अधिकारियों को निर्देशित करते हुए कहा कि किसानों के खाते में अनुदान राशि समय सीमा के अंदर पहुंचाई जाए, जिसमें किसी प्रकार की कोई कोताही न बरती जाए। उन्होंने वैज्ञानिकों को सुझाव देते हुए कहा कि वह किसानों को समझाई-बि दे कि मौसम तथा वातावरण के अनुरूप ही फसल बोये जिससे कि किसानों को किसी प्रकार की परेशानी न हो, साथ ही



समीक्षा बैठक लेते हुए राष्ट्रीय खाद्य सुरक्षा मिशन टीम के सदस्य।

फसल की बुवाई के पूर्व मुदा का परीक्षण आवश्यक रूप से कराया जाए, इसके अलावा संतुलित उर्वरक का उपयोग किसान करें।

### किराये पर उपलब्ध कराए किसानों को कृषि यंत्र

समीक्षा बैठक में टीम के अधिकारियों ने विभाग के अधिकारियों को निर्देशित करते हुए कहा कि जिन किसानों के पास खेती के लिए कृषि यंत्र नहीं है, ऐसे किसानों को चिन्हित किया जाए, तथा उन्हें निर्धारित दर पर कृषि यंत्र

### किसानों के खेतों में पहुंची मिशन की टीम

जिन किसानों ने वैज्ञानिक पद्धति से कृषि कार्य किया, ऐसे किसानों के खेतों पर पांच सदस्यीय टीम ने पहुंचकर फसल का जायजा लिया। पांच सदस्यीय टीम ग्राम गोर पहुंची जहां एक किसान के द्वारा अरहर की खेती धारवाड़ वैज्ञानिक पद्धति से की थी, तथा इस पद्धति से खेती करने पर

किराये पर दिए जाये, जिससे किसान खेती से वंचित न रहे। उन्होंने कहा कि यह योजना किसानों के लिए वरदान साबित होगी। इसके साथ ही

किसान को अधिक उपज प्राप्त हुई थी, इसके साथ ही टीम ग्राम नादिया पहुंची जहां एक किसान के द्वारा प्लासिक मलानिग वैज्ञानिक पद्धति से खेती की थी। किसानों के खेतों पर पहुंचे टीम के सदस्यों ने किसान की ही सलाह अफजाई करते हुए कहा कि किसान की मेहनत से ही खेतों में हरियाली छा जाती है।

उन्होंने कहा कि वैज्ञानिक पद्धति से ही फसलों की बुवाई कराई जाए, जिससे किसान कम पानी में अधिक पैदावार प्राप्त कर सके।

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## APPROVED COST NORMS & INPUT CAFETERIA : (2016-17)

### 1. Cluster Demonstration : Coarse Cereals - Sole Crop

#### A. Maize

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1.	Hybrid Maize Seed	20 kg/ha	1150.00
2.	Seed treatment fungicides/Molybdenum		100.00
3.	Zinc (Based on soil testing value)	25 kg/ha	500.00
4.	Weedicides		350.00
5.	Bio-fertilizers (Azotobacter and Azospirillum, PSB & PMB, ZSB)	2-3 kg/Inoculant	300.00
6.	Demonstration on IPM	Use of Light Trap	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>5000.00</b>

#### B. Millets

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1.	Seed (Incl. Seed Treatment)	5-10 kg/ha	500.00
2.	Promotion of line sowing		500.00
3.	Micro-nutrient-Zinc/Boron (Based on soil testing value)	25kg/ha/10kg/ha	400.00
4.	Weedicides		300.00
5.	Insecticides		400.00
6.	Bio-fertilizers (Azotobacter and PSB & PMB, ZSB)	3 kg/Inoculant	300.00
7.	Demonstration on IPM	Use of Light Trap	1800.00
8.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>5000.00</b>

#### C. Intercropping Demonstration : Maize

(Amount in Rs.)

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

**D. Wheat****(Amount in Rs.)**

S. No.	Interventions/Input	Recommendation	Total Cost /ha
<b>1</b>	<b>Popularization of improved varieties</b>		
	HYVs	100 kg/ha	2800.00
<b>2.</b>	Promotion of use of Micro Nutrients and bio-fertilizers		
2.1	Zinc Sulphate (Soil test based)	25 kg/ha	900.00
2.2	Boron	10 kg/ha	800.00
<b>3.</b>	Promotion of line sowing using seed drills with the Custom Hiring		700.00
<b>4.</b>	Weedicides		1500.00
<b>5.</b>	Publicity material/Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>7500.00</b>

**E. 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, Moth, Cowpea, Pigeon pea	20 kg/ha	3000.00
1.2	Chick Pea/field pea	80 kg/ha	
1.3	Lentil/Horse gram	40 kg/ha	
<b>2</b>	Seed treatment fungicides/Molybdenum		100.00
<b>3</b>	Promotion of use of Micro Nutrients and bio-fertilizers		
3.1	Zinc/Boron/Molybdenum (Based on soil testing value)		500.00
3.2	Rhizobium and PSB, PMB and ZSB		300.00
<b>4</b>	Plant Protection		1000.00
<b>5</b>	Demonstration on IPM	Use of Light Trap	1800.00
<b>6</b>	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>7500.00</b>

**F. Rice High Yielding (Direct Seeded Rice)****(Amount in Rs.)**

S. No.	Name of Interventions	Recommended by Agri. Scientist	
		Recommendation	Total Cost /ha
<b>1.</b>	<b>Demonstration of High Yielding Varieties</b>		
1.1	Direct Seeded Rice	60 kg/ha	2000.00
1.2	Transplanted Rice	25 kg/ha	
<b>2.</b>	Seed treatment fungicides/Molybdenum		250.00
<b>3.</b>	<b>Promotion of use of micro-nutrient and bio-fertilizer</b>		
3.1	Zinc/ Boron (Based on soil testing value)	25 kg/ha / 10kg/ha	900.00
3.2	Blue Green Algae		300.00
<b>4.</b>	Weedicides		400.00
<b>5.</b>	Insecticide		1050.00
<b>6.</b>	Demonstration on IPM	Use of Light Trap	1800.00
<b>7.</b>	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>7500.00</b>

## G. Rice Hybrid (System of Rice Intensification)

(Amount in Rs.)

S. No.	Name of Interventions	Recommended by Agri. Scientist	
		Recommendation	Total Cost /ha
<b>1.</b>	<b>Demonstration of Hybrid Varieties of rice</b>		
1.1	Systematic Rice Intensification	05 kg/ha	2000.00
2.	Seed treatment fungicides/Molybdenum		250.00
<b>3.</b>	<b>Promotion of use of micro-nutrient and bio-fertilizer</b>		
3.1	Zinc/ Boron (Based on soil testing value)	25 kg/ha / 10kg/ha	900.00
3.2	Blue Green Algae		300.00
4.	Weedicides		400.00
5.	Insecticide		1050.00
6.	Demonstration on IPM	Use of Light Trap	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>7500.00</b>

## H. Rice High Yielding varieties (Stress Tolerant Variety)

(Amount in Rs.)

S. No.	Name of Interventions	Recommended by Agri. Scientist	
		Recommendation	Total Cost /ha
<b>1.</b>	<b>Demonstration of High Yielding Varieties of rice</b>		
1.1	Systematic Rice Intensification		2000.00
2.	Seed treatment fungicides/Molybdenum		250.00
<b>3.</b>	<b>Promotion of use of micro-nutrient and bio-fertilizer</b>		
3.1	Zinc/ Boron (Based on soil testing value)	25 kg/ha /10kg/ha	900.00
3.2	Blue Green Algae		300.00
4.	Weedicides		400.00
5.	Insecticide		1050.00
6.	Demonstration on IPM	Use of Light Trap	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>7500.00</b>

## I. Rice High Yielding Varieties (Line Transplanting)

(Amount in Rs.)

S. No.	Name of Interventions	Recommended by Agri. Scientist	
		Recommendation	Total Cost /ha
<b>1.</b>	<b>Demonstration of High Yielding Varieties of rice</b>		
1.1	Systematic Rice Intensification		2000.00
2.	Seed treatment fungicides/Molybdenum		250.00
<b>3.</b>	<b>Promotion of use of micro-nutrient and bio-fertilizer</b>		
3.1	Zinc/ Boron (Based on soil testing value)	25 kg/ha /10kg/ha	900.00
3.2	Blue Green Algae		300.00
4.	Weedicides		400.00
5.	Insecticide		1050.00
6.	Demonstration on IPM	Use of Light Trap	1800.00
7.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>7500.00</b>

## 2. Cluster Demonstration: Cropping System Based Demonstration (CSBD)

### I. PULSE-WHEAT

#### A. CSBD: PULSE

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Popularization of improved varieties		
1.1	Urd, Moong, Moth, Cowpea, Pigeon pea	20 kg/ha	3000.00
1.2	Chick Pea/field pea	80 kg/ha	
1.3	Lentil/Horse gram	40 kg/ha	
2	Seed treatment fungicides/Molybdenum		100.00
3	Promotion of use of Micro Nutrients and bio-fertilizers		
3.1	Zinc/Boron/Molybdenum (Based on soil testing value)		800.00
3.2	Rhizobium and PSB, PMB and ZSB		300.00
4	Plant Protection		700.00
5	Demonstration on IPM	Use of Light Trap	1800.00
6	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>7500.00</b>

#### B. CSBD: WHEAT

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Demonstration on HYVs	100 kg/ha	1600.00
2.	Promotion of use of micro-nutrient and bio-fertilizer		
2.1	Zinc Sulphate (Based on soil testing value)	25 kg/ha	800.00
2.2	Boron	10 kg/ha	600.00
3	Weedicides		1200.00
4	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>5000.00</b>

### II. RICE-PULSE

#### A. CSBD: RICE

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
<b>1.</b>	<b>Demonstration of High Yielding Varieties of rice (<i>Transplanted &amp; DSR</i>)</b>		
1.1	Systematic Rice Intensification	60 kg/ha (DSR) 25 kg/ha (Trans.)	2000.00
2.	Seed treatment fungicides/Molybdenum		100.00
<b>3.</b>	<b>Promotion of use of micro-nutrient and bio-fertilizer</b>		
3.1	Zinc Sulphate (Based on soil testing value)	25 kg/ha	400.00
3.2	Boron	10 kg/ha	700.00
3.3	Blue Green Algae		300.00
4.	Weedicides		350.00
5.	Insecticide		1050.00
6.	Demonstration on IPM	Use of Light Trap	1800.00
7.	Publicity material		250.00
8.	Visit of Scientists		300.00



9.	Field Day		250.00
	<b>Total</b>		<b>7500.00</b>

## B. CSBD: PULSE

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Popularization of improved varieties ( <i>Including Seed Treatment</i> ).		
1.1	Urd, Moong, Moth, Cowpea, Pigeon pea	20 kg/ha	1800.00
1.2	Chick Pea/field pea	80 kg/ha	
1.3	Lentil/Horse gram	40 kg/ha	
2.	Promotion of use of Micro Nutrients and bio-fertilizers		
2.1	Rhizobium and PSB, PMB and ZSB		250.00
2.2	Demo. on use of Sulphur as a nutrient	20kg S /ha	600.00
3.	Demonstration on IPM	Use of Light Trap	1800.00
4.	Visit of Scientists		300.00
5.	Field Day		250.00
	<b>Total</b>		<b>5000.00</b>

## III. RICE-WHEAT

### A. CSBD: RICE

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1.	<b>Demonstration of High Yielding Varieties of rice (<i>Transplanted &amp; DSR</i>)</b>		
1.1	Direct Seeded Rice	60 kg/ha	2000.00
1.2	Transplanted Rice	40 kg/ha	
2.	Seed treatment fungicides/Molybdenum		100.00
<b>3.</b>	<b>Promotion of use of micro-nutrient and bio-fertilizer</b>		
3.1	Zinc Sulphate (Based on soil testing value)	25 kg/ha	400.00
3.2	Boron	10 kg/ha	700.00
3.3	Blue Green Algae		300.00
4.	Weedicides		350.00
5.	Insecticide		1050.00
6.	Demonstration on IPM	Use of Light Trap	1800.00
7.	Publicity material		250.00
8.	Visit of Scientists		300.00
9.	Field Day		250.00
	<b>Total</b>		<b>7500.00</b>

### B. CSBD: WHEAT

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	<b>Popularization of improved varieties</b>		
	HYVs	100 kg/ha	1600.00
2.	Promotion of use of Micro Nutrients and bio-fertilizers		
2.1	Zinc Sulphate (Soil test based)	25 kg/ha	800.00
2.2	Boron	10 kg/ha	600.00
4.	Weedicides		1200.00
5.	Publicity material/Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>5000.00</b>

#### IV. Intercropping Demonstration for Pulses

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Wheat. Jowar, Soybean, Mustard (Main Crop) +Urd/Mung/Moth/Cowpea/Tur/Gram/Pea/ Lentil/Gram (Intercrop)		2800.00
2.	Seed treatment fungicides		100.00
3.	Promotion of use of micro-nutrient and bio-fertilizer		
3.1	Zinc/Boron/Molybdenum	25 kg/ha	800.00
	Rhizobium & PSB		100.00
4.	Plant Protection		1100.00
5	Demo. on IPM	Use of Light Trap	1800.00
6.	Publicity material /Visit of Scientists/Field Day		800.00
	<b>Total</b>		<b>7500.00</b>

#### V. Intercropping Demonstration for Sugarcane (Commercial Crops)

(Amount in Rs.)

S. No.	Interventions/Input	Recommendation	Total Cost /ha
1	Seed (Incl. Seed Treatment)	Wheat- 40 kg/ha & Gram-35 kg/ha	1400.00
2.	Soil treatment fungicides		200.00
3.	Promotion of use of micro-nutrient and bio-fertilizer		
3.1	Zinc/Boron/Molybdenum	25 kg/ha	500.00
3.2	Boron	10 kg/ha	600.00
4.	Plant Protection		2500.00
5	Demo. on IPM	Use of Light Trap	1800.00
6.	Publicity material /Visit of Scientists/Field Day		1000.00
	<b>Total</b>		<b>8000.00</b>

## CAFETERIA OF INTERVENTIONS FOR CLUSTER DEMONSTRATIONS : (2016-17)

### CLUSTER DEMONSTRATION: MAIZE (COARSE CEREALS)

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost/ha
1	Demonstration of Hybrid Maize:- Introducing newly released hybrids and quality protein maize varieties with specific to region	Seed rate 20 kg/ha	1150
2	Seed treatment (appropriate & recommended)	Seed treatment with Trichoderma viride @ 5 g/ kg seed or carbendazem 3 g/kg seed	100
3	Zinc	<b>Zinc</b> : Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required.	500
4	Weedicide (appropriate & recommended)	<ul style="list-style-type: none"> <li>· Atrazine/Simazine 1.0 Kg a.i./ha as pre-emergence (2.0 Lt/ha commercial prod.)</li> <li>· 2,4-D (Ethyl ester) 0.5 Kg a.i. /ha as post emergence ( 1.33 kg/ha commercial product)</li> </ul>	350
5	Bio-fertilizers (Azotobactor, PSB, Potash mobilizing)	<p><b>Azotobacter, Azosprillum and PSB</b></p> <ul style="list-style-type: none"> <li>- 2- 3 kg of each inoculant should be taken.</li> <li>· It should be mixed with 150 kg well powered FYM/Compost/Vermicompost/soil and incubate in shade for 7 days before soil treatment (about 40% moisture should be maintained).</li> <li>· Broadcast the mixture over one hectare land before sowing</li> </ul>	300
6	Demonstration on IPM	Light trap safer to beneficial and light trap for managing insect (Without ballast )	1800
7	Publicity material/Visit of Scientists/Field Day	-	800
	<b>Total</b>		<b>5000</b>

## CLUSTER DEMONSTRATION : MILLETS (COARSE CEREALS)

			Amount in Rs
S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Seed including seed treatment	Seed rate 5-10 kg/ha	500
		Seed treatment with Trichoderma virideor Carbendazim 3 g/ kg seed.	
		For Shoot fly : Chloropyriphos @2ml/kg of seed	
2	Promotion of line sowing	Same as recommended	500
3	Micro nutrients (zinc, boron)	25 kg Zinc Sulphate/ha & Borex 10 kg/ha at the time of sowing(as per deficiency)	400
4	Weedicide (appropriate & recommended)	<ul style="list-style-type: none"> <li>2,4-D (Ethyl ester) 0.5g a.i. /hg as post emergence ( 1.33 Lit/ha commercial product)</li> </ul>	300
		<ul style="list-style-type: none"> <li>Fenoxaprop-ethyl 100 g a.i./ha as post -emergence (1Lit/ha commercial prod., v20 to 25 day after sowing)</li> </ul>	
5	Insecticides (appropriate & recommended)	For Stem borer: Carbaryl 85% WP @ 5.75 kg/ha	400
6	Bio-fertilizers (Azotobactor, PSB, Potash mobilizing bacteria and zinc solubilizing bacteria)	<b>Azotobacter, Azosprillum and PSB</b>	300
		<ul style="list-style-type: none"> <li>3 kg of each inoculant should be taken.</li> </ul>	
		<ul style="list-style-type: none"> <li>It should be mixed with 150 kg well powered FYM/Compost/Vermicompost soil and incubate in shade for 7 days before soil treatment (about 40% moisture should be maintained).</li> <li>Broadcast the mixture over one hectare land.</li> </ul>	
7	Demonstration on IPM	Use of Light traps as developed/ recommended by ICAR/SAU and it should be need based.	1800
8	Publicity material/Visit of Scientists/Field Day	-	800
<b>Total</b>			<b>5000</b>

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

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

**INTERCROPING DEMONSTRATION FOR MAIZE (COARSE CEREALS)**

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Soybean(Main crop) + Maize/Jowar/Bajra/kodo kutki ( Intercrop)	Seed	2500
2	Seed treatment (appropriate & recommended)	Seed treatment with Trichoderma viride @ 5 g/ kg seed or carbendazem 3 g/kg seed	200
3	Zinc	<b>Zinc</b> : Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences.	500
4	Weedicide (appropriate & recommended)	Pendimethalin 1.0 kg a.i./ ha (3.33 Lit/ha Commercial Product)	900
5	Bio-fertilizers (Azotobactor, PSB, Potash mobilizing	Rhizobium, Azotobacter, Azospirillum and PSB - 5 g each inoculant /kg seed with crop specific.	100
7	Publicity material/Visit of Scientists/Field Day	-	800
	<b>Total</b>		<b>5000</b>

## CLUSTER DEMONSTRATION : WHEAT

			Amount in Rs.
S.No.	Name of Intervention	Recommended by Agriculture Scientist	Total Cost/ ha.
1	Demonstration on new HYV		
	Introducing newly released high yielding varieties with specific to region	Seed rate 100 kg/ha	2800.00
2	Promotion of use of Micro Nutrients and bio-fertilizers		
2.1	a) Zinc Sulphate (Soil test based)	<b>Zinc :</b> Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required.	900.00
2.2	Boron (Borax Deca hydrate, Borax penta hydrate (Soil test based)	<b>Boron:</b> 10 kg Borex /ha is recommended in Boron deficient soils as basal application. If deficiency of Boron is appears on the standing crop, 0.2% foliar application of Borex is recommended. Two to three sprays at the interval of 10-15 days are required.	800.00
3	Promotion of line sowing using seed drills with the Custom Hiring	Same as recommended	700.00
4	Demonstration on use of chemical weedicides (appropriate&recommonded)	<ul style="list-style-type: none"> <li>· Metsulfuran – 4.0 g a.i./ha as post emergence (20 g/ha commercial prod.)</li> <li>· Fenoxoprop-P-ethyl 100g. a.i./ha as post emergence (1000 g/ha commercial product)</li> <li>· 2,4-D (Ethyl ester) 0.5 kg a.i. /ha as post emergence ( 1.33 kg/ha commercial product)</li> </ul>	1500.00
5	Publicity material/ Visit of Scientists / Field Day		800.00
<b>Total</b>			<b>7500.00</b>

## CLUSTER DEMONSTRATION: PULSES

			Amount in Rs.
S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Popularization of improved varieties		
1.1	Urd Moong, Moth, Cowpea, Pigeon pea	Seed rate 20 kg/ha	3000.00
1.2	Chick Pea/field pea	Seed rate 80 kg/ha	
1.3	Lentil/Horse gram	Seed rate 40 kg/ha	
2	Seed treatment fungicides/Molybdenum	For disease control	100.00
		Seed treatment with Trichoderma viride 5 g/kg seed or Carbendazim + Thiram (1:2) @ 3 g/kg seed.	
		Pigeonpea- Seed treatment with Metalaxyl @ 3 g/kg seed and foliar spray of Metalaxyl @ 3 g/lit of water, at appearance of phytophthora blight	
		Chickpea – Soil incorporation of Trichoderma viride @ 2.5 kg/ha along with FYM	
3	Promotion of use of Micro Nutrients and bio-fertilizers		
3.1	Zinc/Boron/Molybdenum (Based on soil testing value)	Zinc : Zinc sulphate @ 25 kg/ha is recommend -ed as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required. Suppliment Molybdenum @ 1 g AmoniumMolibdate/kg seed with Rhizobium + PSB inoculation.	500.00
3.2	Rhizobium and PSB, Potash mobilizing bacteria and zinc solubilizing bacteria)	Specific Rhizobium, PSB and Trichoderma	300.00
		<b>Rhizobium</b>	
		- Every year each pulse crop should be inoculated with appropriate Rhizobial inoculants.	
		- Seed should be treated first with fungicide as per recommendations.	
		- Prepare a slurry of 1 kg of Rhizobium culture in one litre of jaggery solution (by dissolving 200 g Jaggery in one litre of hot water and cool it.)	
		- Spread inoculants slurry over 80-100 kg of seed	
		- It found difficult to treat such a vig quantity of seed then it should be divided in 3-4 parts and accordingly inoculants slurry should also be divided.	
		- Mix the inoculants slurry in shade with seed so that every seed should be coated well.	
		- Molybdenum Suppliment @ 1 g AmoniumMolybdate/kg seed(as seed inoculation with Rhizobium + PSB in Chickpea).	
		- Sow the inoculated seed as early as possible and do not keep the treated seeds overnight.	
		- NPV virus	
		<b>PSB and Trichoderma</b>	
		- 3 kg of each inoculants should be taken.	
		- It should be mixed with 150 kg well powered FYM/Compost/Vermicompost (about 40% moisture should be maintained)	
		- Broadcast the mixture over one hectare land.	
4	Plant Protection	Pigeonpea: Profenofos 50 EC @ 1.5 Lit/ha, Dimethoate 30 EC@1 Lit/ha, Chickpea : Profenofos 50 EC @ 1.5 Lit/ha, Letnil :Dimethoate 30 EC@1 Lit/ha, Field pea, Cowpea, Urd, Moong :Triazophos 40EC @ 1 Lit/ha	1000.00
5	Demonstration on IPM	Use of Light traps as developed/ recommended by ICAR/SAU and it should be need based.	1800.00
6	Publicity material/Visit of Scient./Field Day		800.00
	<b>Total</b>	-	<b>7500.00</b>

## CLUSTER DEMONSTRATION : RICE HIGH YIELDING (DIRECT SEEDED RICE)

Amount in Rs.

S. No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Demonstration of potential of high yielding varieties of rice. (Transplanted and directed seeded)	Seed rate 60 kg/ha (directed seeded rice) 25 kg/ha (transplanted rice)	2000.00
2	Seed treatment (appropriate and recommended)	Seed treatment with Thiram @ 2 g/kg seed or carbendazim 1.5 g. + Streptocycline 2.5 g per 10 kg seed.	250.00
<b>3</b>	<b>Promotion of use of micro nutrients and biofertilizers</b>		
3.1	Zinc/Boron (Based on soil testing value)	<b>Zinc</b> : Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required. <b>Boron</b> : 10 kg Borex /ha is recommended in Boron deficient soils as basal application If deficiency of Boron is appears on the standing crop, 0.2% foliar application of Borex is recommended. Two to three sprays at the interval of 10-15 days are required.	900.00
3.2	Blue green alage	<p><b>BGA</b></p> <ul style="list-style-type: none"> <li>· 3 kg of each inoculants should be taken.</li> </ul> <p><b>For transplanted rice</b></p> <ul style="list-style-type: none"> <li>· Inoculants slurry is to be prepared in 150 liter of water.</li> <li>· Dip the roots of seedlings (required for 1 ha) in inoculants slurry for 10 min.</li> <li>· Root dipping should be done in shade.</li> <li>· Inoculants seedlings should be transplanted as early as possible.</li> </ul> <p><b>Direct seeded rice</b></p> <ul style="list-style-type: none"> <li>· It should be mixed with 150 kg well powered FYM/Compost/Vermicompost soil and incubate in shade for 7 days before soil treatment (about 40% moisture should be maintained).</li> <li>· Broadcast the mixture over one hectare land before sowing.</li> </ul> <p><b>Blue Green Algae</b></p> <ul style="list-style-type: none"> <li>· Soil based BGA inoculums @ 10 kg/ha for both the conditions.</li> </ul>	300.00
4	Demonstration on effectiveness of weedicides (appropriate and recommended)	<p>Herbicide for direct seeded rice (DSR)</p> <ul style="list-style-type: none"> <li>· Butachlor 1.5 kg a.i./ha (3.0 kg/ha commercial product)</li> <li>· 2,4 D (Ethyl ester) 0.5 kg a.i./ha (1.33 kg/ha commercial product)</li> <li>· Bispyribac – Na 20 g a.i/ha (0.2 kg/ha commercial product)</li> </ul>	400.00
5	Insecticide	Fipronil G 10kg/ha, Chlorpyriphos 20 EC@1 Lit/ha	1050
6	Demonstration on IPM	Use of Light traps as developed/ recommended by ICAR/SAU and it should be need based.	1800
7	Publicity material/Visit of Scientists/Field Day	-	800.00
	<b>Total</b>	-	<b>7500.00</b>



**CLUSTER DEMONSTRATION: RICE HYBRID (SYSTEM OF RICE INTESIFICATION)**

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Demonstration of potential of Hybrid varieties of rice. (Transplanted SRI system)	Seed rate 05 kg/ha	2000.00
2	Seed treatment (appropriate and recommended)	Seed treatment with Thiram @ 2 g/kg seed or carbendazim 1.5 g. + Streptocycline 2.5 g per 10 kg seed.	250.00
<b>3</b>	<b>Promotion of use of micro nutrients and biofertilizers</b>		
3.1	Zinc/Boron (Based on soil testing value)	<b>Zinc :</b> Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required. <b>Boron:</b> 10 kg Borex /ha is recommended in Boron deficient soils as basal application If deficiency of Boron is appears on the standing crop, 0.2% foliar application of Borex is recommended. Two to three sprays at the interval of 10-15 days are required.	900.00
3.2	Blue green alage	<p><b>BGA</b></p> <ul style="list-style-type: none"> <li>· 3 kg of each inoculant should be taken.</li> </ul> <p><b>For transplanted rice</b></p> <ul style="list-style-type: none"> <li>· Inoculant slurry is to be prepared in 150 liter of water.</li> <li>· Dip the roots of seedlings (required for 1 ha) in inoculants slurry for 10 min.</li> <li>· Root dipping should be done in shade.</li> <li>· Inoculant seedlings should be transplanted as early as possible.</li> </ul> <p><b>Direct seeded rice</b></p> <ul style="list-style-type: none"> <li>· It should be mixed with 150 kg well powered FYM/Compost/Vermicompost soil and incubate in shade for 7 days before soil treatment (about 40% moisture should be maintained).</li> <li>· Broadcast the mixture over one hectare land before sowing.</li> </ul> <p><b>Blue Green Algae</b></p> <ul style="list-style-type: none"> <li>· Soil based BGA inoculums @ 10 kg/ha for both the conditions.</li> </ul>	300.00
4	Demonstration on effectiveness of weedicides (appropriate and recommended)	<p>Herbicide for direct seeded rice (DSR)</p> <ul style="list-style-type: none"> <li>· Butachlor 1.5 kg a.i./ha (3.0 kg/ha commercial product)</li> <li>· 2,4 D (Ethyl ester) 0.5 kg a.i./ha (1.33 kg/ha commercial product)</li> <li>· Bispyribac – Na 20 g a.i./ha (0.2 kg/ha commercial product)</li> </ul>	400.00
5	Insecticide	Fipronil G 10kg/ha, Chlorpyriphos 20 EC@1 Lit/ha	1050
6	Demonstration on IPM	Use of Light traps as developed/ recommended by ICAR/SAU and it should be need based.	1800
7	Publicity material/Visit of Scientists/Field Day	-	800.00
	<b>Total</b>	-	<b>7500.00</b>

**CLUSTER DEMONSTRATION : RICE HIGH YIELDING VARIETIES (STRESS TOLERANT VARIETY)**

**Amount in Rs.**

<b>S. No.</b>	<b>Name of Interventions</b>	<b>Recommended by Agriculture Scientist</b>	<b>Total cost /ha</b>
1	Demonstration of potential of high yielding varieties of rice. (Stress Tolerant variety )		2000.00
2	Seed treatment (appropriate and recommended)	Seed treatment with Thiram @ 2 g/kg seed or carbendazim 1.5 g. + Streptocycline 2.5 g per 10 kg seed.	250.00
<b>3</b>	<b>Promotion of use of micro nutrients and bio-fertilzers</b>		
3.1	Zinc/Boron (Based on soil testing value)	Zinc : Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required. <b>Boron:</b> 10 kg Borex /ha is recommended in Boron deficient soils as basal application If deficiency of Boron is appears on the standing crop, 0.2% foliar application of Borex is recommended. Two to three sprays at the interval of 10-15 days are required.	900.00
3.2	Blue green alage	<p>BGA</p> <ul style="list-style-type: none"> <li>· 3 kg of each inoculant should be taken.</li> </ul> <p>For transplanted rice</p> <ul style="list-style-type: none"> <li>· Inoculants slurry is to be prepared in 150 liter of water.</li> <li>· Dip the roots of seedlings (required for 1 ha) in inoculants slurry for 10 min.</li> <li>· Root dipping should be done in shade.</li> <li>· Inoculants seedlings should be transplanted as early as possible.</li> </ul> <p>Direct seeded rice</p> <ul style="list-style-type: none"> <li>· It should be mixed with 150 kg well powered FYM/Compost/Vermicompost soil and incubate in shade for 7 days before soil treatment (about 40% moisture should be maintained).</li> <li>· Broadcast the mixture over one hectare land before sowing.</li> </ul> <p>Blue Green Algae</p> <ul style="list-style-type: none"> <li>· Soil based BGA inoculums @ 10 kg/ha for both the conditions.</li> </ul>	300.00
4	Demonstration on effectiveness of weedicides (appropriate and recommended)	<p>Herbicide for Stress Tolerant variety (STV)</p> <ul style="list-style-type: none"> <li>· Butachlor 1.5 kg a.i./ha (3.0 kg/ha commercial product)</li> <li>· 2,4 D (Ethyl ester) 0.5 kg a.i./ha (1.33 kg/ha commercial product)</li> <li>· Bispyribac – Na 20 g a.i./ha (0.2 kg/ha commercial product)</li> </ul>	400.00
5	Insecticide	Fipronil 0.3% G@ 15kg/ha, Chlorpyriphos 20 EC@1.25 Lit/ha	1050
6	IPM	Use of Light traps as developed/ recommended by ICAR / SAU and it should be need based.	1800
7	Publicity material/Visit of Scientists/Field Day	-	800.00
	<b>Total</b>	-	<b>7500.00</b>

**CLUSTER DEMONSTRATION : RICE HIGH YIELDING VARIETIES (LINE TRANSPLANTING)**

Amount in Rs.

S. No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Demonstration of potential of high yielding var. of rice.	Seed	2000.00
2	Seed treatment (appropriate and recommended)	Seed treatment with Thiram @ 2 g/kg seed or carbendazim 1.5 g. + Streptocycline 2.5 g per 10 kg seed.	250.00
<b>3</b>	<b>Promotion of use of micro nutrients and biofertilizer</b>		
3.1	Zinc/Boron (Based on soil testing value)	Zinc : Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required. <b>Boron:</b> 10 kg Borex /ha is recommended in Boron deficient soils as basal application If deficiency of Boron is appears on the standing crop, 0.2% foliar application of Borex is recommended. Two to three sprays at the interval of 10-15 days are required.	900.00
3.2	Blue green alage	<p><b>BGA</b></p> <ul style="list-style-type: none"> <li>· 3 kg of each inoculant should be taken.</li> </ul> <p><b>For transplanted rice</b></p> <ul style="list-style-type: none"> <li>· Inoculants slurry is to be prepared in 150 liter of water.</li> <li>· Dip the roots of seedlings (required for 1 ha) in inoculants slurry for 10 min.</li> <li>· Root dipping should be done in shade.</li> <li>· Inoculants seedlings should be transplanted as early as possible.</li> </ul> <p><b>Direct seeded rice</b></p> <ul style="list-style-type: none"> <li>· It should be mixed with 150 kg well powered FYM/Compost/Vermicompos soil and incubate in shade for 7 days before soil treatment (about 40% moistur should be maintained).</li> <li>· Broadcast the mixture over one hectare land before sowing.</li> </ul> <p><b>Blue Green Algae</b></p> <ul style="list-style-type: none"> <li>· Soil based BGA inoculums @ 10 kg/ha for both the conditions.</li> </ul>	300.00
4	Demonstration on effectiveness of weedicides (appropriate and recommended)	<p>Herbicide for Line Transplanted (LT)</p> <ul style="list-style-type: none"> <li>· Butachlor 1.5 kg a.i./ha (3.0 kg/ha commercial product)</li> <li>· 2,4 D (Ethyl ester) 0.5 kg a.i./ha (1.33 kg/ha commercial product)</li> <li>· Bispyribac – Na 20 g a.i./ha (0.2 kg/ha commercial product)</li> </ul>	400.00
5	Insecticide	Fipronil 0.3% G@ 15kg/ha, Chlorpyriphos 20 EC@1.25 Lit/ha	1050
6	IPM	Use of Light traps as developed/ recommended by ICAR/SAU/KVK.	1800
7	Publicity material/Visit of Scientists/Field Day	-	800.00
	<b>Total</b>	-	<b>7500.00</b>

## CROPPING SYSTEM BASED DEMONSTRATION: PULSES – WHEAT

### A. CSBD: PULSE

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Popularization of improved varieties		
1.1	Urd Moong, Moth, Cowpea, Pigeon pea	Seed rate 20 kg/ha	3000.00
1.2	Chick Pea/field pea	Seed rate 80 kg/ha	
1.3	Lentil/Horse gram	Seed rate 40 kg/ha	
2	Seed treatment fungicides/Molybdenum	For disease control Seed treatment with Trichoderma viride + Carboxin (1:1) @ 5 g/kg seed or Carbendazim + Thiram (1:2) @ 3 g/kg seed. Pigeonpea- Seed treatment with Metalaxyl @ 3 g/kg seed and foliar spray of Metalaxyl @ 3 g/lit of water, at appearance of phytophthora blight Chickpea – Soil incorporation of Trichoderma viride @ 2.5 kg/ha along with FYM	100.00
3	Promotion of use of Micro Nutrients and bio-fertilizers		
3.1	Zinc/Boron/Molybdenum (Based on soil testing value)	Zinc : Zinc sulphate @ 25 kg/ha is recommend -ed as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrillize with 0.25% lime) two to three spray at the interval of 10-15 days are required. Suppliment Molybdenum @ 1 g AmoniumMolibdate/kg seed with Rhizobium + PSB inoculation.	800.00
3.2	Rhizobium and PSB, Potash mobilizing bacteria and zinc solubilizing bacteria)	Specific Rhizobium, PSB and Trichoderma <b>Rhizobium</b> · Every year each pulse crop should be inoculated with appropriate Rhizobial inoculants. · Seed should be treated first with fungicide as per recommendations. · Prepare a slurry of 1 kg of Rhizobium culture in one litre of jaggery solution (by dissolving 200 g Jaggary in one litre of hot water and cool it.) · Spread inoculants slurry over 80-100 kg of seed · It found difficult to treat such a vig quantity of seed then it should be divided in 3-4 parts and accordingly inoculants slurry should also be divided. · Mix the inoculants slurry in shade with seed so that every seed should be coated well. · Molybdenum Suppliment 1 g Amonium Molibdate/kg seed(as seed inoculation with Rhizobium + PSB in Chickpea. · Sown the inoculated seed as early as possible and do not keep the treated seeds overnight. <b>PSB and Trichoderma</b> · 3 kg of each inoculants should be taken. · It should be mixed with 150 kg well powered FYM/Compost/Vermicompost (about 40% moisture should be maintained) · Broadcast the mixture over one hectare land.	300.00
4	Plant Protection	Pigeonpea:Profenofos 50 EC @ 1.5 Lit/ha, Dimethoate 30 EC@1 Lit/ha, Chickpea : Profenofos 50 EC@1.5 Lit/ha, Lentil :Dimethoate 30 EC@1 Lit/ha, Field pea, Cowpea, Urd, Moong :Triazophos 40EC @ 1 Lit/ha	700.00
5	Demonstration on IPM	Use of Light traps as developed/ recommended by ICAR/SAU and it should be need based.	1800.00
6	Publicity material/Visit of Scientists/Field Day		800.00
	<b>Total</b>	-	<b>7500.00</b>

## B. CSBD: WHEAT

Amount in Rs.

S.No.	Name of Intervention	Recommended by Agriculture Scientist	Total Cost/ha.
1	Demonstration on new HYV		
	Introducing newly released high yielding varieties with specific to region	Seed rate 100 kg/ha	1600.00
2	Promotion of use of Micro Nutrients and bio-fertilizers		
2.1	a) Zinc Sulphate (Soil test based)	<b>Zinc</b> : Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required.	800.00
2.2	Boron (Borax Deca hydrate, Borax penta hydrate (Soil test based)	<b>Boron</b> : 10 kg Borex /ha is recommended in Boron deficient soils as basal application. If deficiency of Boron appears on the standing crop, 0.2% foliar application of Borex recommended. Two to three sprays at the interval of 10-15 days are required.	600.00
3	Demonstration on use of chemical weedicides (appropriate&recommended)	<ul style="list-style-type: none"> <li>· Metsulfuran – 4.0 g a.i./ha as post emergence (20 g/ha commercial prod.)</li> <li>· Fenoxoprop-P-ethyl 100g. a.i./ha as post emergence (1000 g/ha commercial product)</li> <li>· 2,4-D (Ethyl ester) 0.5 kg a.i. /ha as post emergence ( 1.33 kg/ha commercial product)</li> </ul>	1200.00
4	Publicity material/ Visit of Scientists / Field Day		800.00
	<b>Total</b>		<b>5000.00</b>

## CROPPING SYSTEM BASED DEMONSTRATION: RICE – PULSES

### A. CSBD: RICE

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha		
1	Demonstration of potential of high yielding varieties of rice. (Transplanted and directed seeded).	Seed rate 60 kg/ha(directed seeded rice) 25 Kg/ha (transplanted rice)	2000.00		
2	Seed treatment (appropriate and recommended)	Seed treatment with Thiram @ 2 g/kg seed or carbendazim 1.5 g. + Streptocycline 2.5 g per 10 kg seed.	100.00		
<b>3</b>	<b>Promotion of use of micro nutrients and bio-fertilizers</b>				
3.1	Zinc sulphate	<b>Zinc</b> : Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required.	400.00		
3.2	Blue green algae	<b>BGA</b> · 3 kg of each inoculant should be taken.	300.00		
		<b>For transplanted rice</b> · Inoculant slurry is to be prepared in 150 liter of water. · Dip the roots of seedlings (required for 1 ha) in inoculants slurry for 10 min. · Root dipping should be done in shade. · Inoculant seedlings should be transplanted as early as possible.			
		<b>Direct seeded rice</b> · It should be mixed with 150 kg well powered FYM/Compost/Vermicompost soil and incubate in shade for 7 days before soil treatment (about 40% moisture should be maintained). · Broadcast the mixture over one hectare land before sowing.			
		<b>Blue Green Algae</b> · Soil based BGA inoculums @ 10 kg/ha for both the conditions.			
3.3		Boron (BoroxDeca hydrate, Borox Penta hydrate)		<b>Boron:</b> 10 kg Borex /ha is recommended in Boron deficient soils as basal application If deficiency of Boron is appears on the standing crop, 0.2% foliar application of Borex is recommended. Two to three sprays at the interval of 10-15 days are required.	700.00
4		Demonstration on effectiveness of weedicides (appropriate and recommended)		Herbicide for direct seeded rice (DSR) · Butachlor 1.5 kg a.i./ha (3.0 kg/ha commercial product) · 2,4 D (Ethyl ester) 0.5 kg a.i./ha (1.33 kg/ha commercial product) · Bispyribac – Na 20 g a.i./ha (0.2 kg/ha commercial product)	350.00
5		Insecticide		Fipronil G 10kg/ha, Chlorpyriphos 20 EC@1 Lit/ha	1050.00
6		Demonstration on IPM		Use of Light traps as developed/ recommended by ICAR / SAU and it should be need based	1800.00
7	Publicity material	-	250.00		
8	Visits of Scientists	-	300.00		
9	Field days	-	250.00		
<b>Total</b>		-	<b>7500.00</b>		

## B. CSBD: PULSES

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Popularization of improved varieties		
1.1	Urd Moong, Moth, Cowpea, Pigeon pea including seed treatment	Seed rate 20 kg/ha	1800.00
1.2	Chick Pea/field pea including seed treatment	Seed rate 80 kg/ha	
1.3	Lentil/Horse gram including seed treatment	Seed rate 40 kg/ha	
2	Promotion of use of Micro Nutrients and bio-fertilizers		
2.3	Rhizobium and PSB, Potash mobilizing bacteria and zinc solubilizing bacteria)	Specific Rhizobium, PSB and Trichoderma	250.00
		Rhizobium	
		· Every year each pulse crop should be inoculated with appropriate Rhizobial inoculants.	
		· Seed should be treated first with fungicide as per recommendations.	
		· Prepare a slurry of 1 kg of Rhizobium culture in one litre of jaggery solution (by dissolving 200 g Jaggery in one litre of hot water and cool it.)	
		· Spread inoculant slurry over 80-100 kg of seed	
		· It found difficult to treat such a big quantity of seed then it should be divided in 3-4 parts and accordingly inoculants slurry should also be divided.	
		· Mix the inoculants slurry in shade with seed so that every seed should be coated well.	
		· Sow the inoculated seed as early as possible and do not keep the treated seeds overnight.	
		PSB and Trichoderma	
		· 3 kg of each inoculants should be taken.	
		· It should be mixed with 150 kg well powered FYM/Compost/Vermicompost (about 40% moisture should be maintained)	
		· Broadcast the mixture over one hectare land.	
3	Demonstration on use of sulphur as a nutrient	Sulphur: 20 kg S/ha.	600.00
4	Demonstration on IPM	Light trap safer to beneficial insect and light trap for managing insect (Without Blast )	1800.00
5	Visit of Scientists	-	300.00
6	Field Day	-	250.00
	<b>Total</b>	-	<b>5000.00</b>

- Note :
1. If the seed is already treated, amount on seed treatment will not be used
  2. Above intervention may be changed region wise according to the availability of inputs

## CROPPING SYSTEM BASED DEMONSTRATION : RICE – WHEAT

### A. CSBD: RICE

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Demonstration of potential of high yielding varieties of rice. (Transplan. and directed seeded)	Seed rate 60 kg/ha(directed seeded rice) 40 Kg/ha (transplanted rice)	2000.00
2	Seed treatment (appropriate and recommended)	Seed treatment with Thiram @ 2 g/kg seed or carbendazim 1.5 g. + Streptocycline 2.5 g per 10 kg seed.	100.00
3	Promotion of use of micro nutrients and biofertilizers		
3.1	Zinc sulphate	Zinc : Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required.	400.00
3.2	Blue green alage	BGA	300.00
		· 3 kg of each inoculant should be taken.	
		For transplanted rice	
		· Inoculant slurry is to be prepared in 150 liter of water.	
		· Dip the roots of seedlings (required for 1 ha) in inoculants slurry for 10 min.	
		· Root dipping should be done in shade.	
		· Inoculant seedlings should be transplanted as early as possible.	
		Direct seeded rice	
		· It should be mixed with 150 kg well powered FYM/Compost/ Vermicompost soil and incubate in shade for 7 days before soil treatment (about 40% moisture should be maintained).	
		· Broadcast the mixture over one hectare land before sowing.	
	Blue Green Algae		
	· Soil based BGA inoculums @ 10 kg/ha for both the conditions.		
3.3	Boron (BoroxDeca hydrate, Borox Penta hydrate)	Boron: 10 kg Borex /ha is recommended in Boron deficient soils as basal application If deficiency of Boron is appears on the standing crop, 0.2% foliar application of Borex is recommended. Two to three sprays at the interval of 10-15 days are required.	700.00
4	Demonstration on effectiveness of weedicides (appropriate and recommended)	Herbicide for direct seeded rice (DSR)	350.00
		· Butachlor 1.5 kg a.i./ha (3.0 kg/ha commercial product)	
		· 2,4 D (Ethyl ester) 0.5 kg a.i./ha (1.33 kg/ha ommercial product)	
		· Bispyribac – Na 20 g a.i/ha (0.2 kg/ha commercial product)	
5	Insecticide	Fipronil G 10kg/ha, Chlorpyriphos 20 EC@1 Lit/ha	1050.00
6	Demonstration on IPM	Light trap safer to beneficial insect and light trap for managing insect (Without Blast )	1800.00
7	Publicity material	-	250.00
8	Visits of Scientists	-	300.00
9	Field days	-	250.00
	<b>Total</b>	-	<b>7500.00</b>



## B. CSBD: WHEAT

			Amount in Rs
S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	<u>Demonstration on new HYV</u>	Seed rate 100 kg/ha	1600.00
	Introducing newly released high yielding varieties with specific to region including seed treatment		
2	Promotion of use of Micro Nutrients and bio-fertilizers		
2.1	a)Zinc Sulphate	Zinc : Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required.	800.00
2.2	Boron (Borax Deca hydrate, Borax penta hydrate)	Boron: 10 kg Borex /ha is recommended in Boron deficient soils as basal application. If deficiency of Boron is appears on the standing crop, 0.2% foliar application of Borex is recommended. Two to three sprays at the interval of 10-15 days are required.	600.00
4	Demonstration on use of chemical weedicides (appropriate&recommonded)	· Metsulfuran – 4.0 g a.i/ha as post emergence (20 g/ha commercial prod.)	1200.00
		· Fenoxoprop-P-ethyl 100g. a.i./ha as post emergence (1000 g/ha commercial product)	
		· 2,4-D (Ethyl ester) 0.5 kg a.i. /ha as post emergence ( 1.33 kg/ha commercial product)	
5	Publicity material/Visit of Scientists/Field Day		800.00
<b>Total</b>			<b>5000.00</b>

- Note :
1. If the seed is already treated, amount on seed treatment will not be used
  2. Above intervention may be changed region wise according to the availability of inputs
  3. For Hybrid rice Demonstrations B. wheat Part should be followed this same

## INTERCROPING DEMONSTRATION : PULSES

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	<b>Popularization of improved varieties</b>		
	Wheat, Jowar, Soybean, Mustard (Main crop) + Urd /Moong/ Moth/Cowpea/ Pigeon pea/Chick Pea/field pea/Lentil/ Gram( Intercrop)	Seed	2800.00
2	Seed treatment	Trichoderma viride 5 g/kg seed or Carbendazim + Thiram (1:2) @ 3 g/kg seed.	100.00
3	<b>Promotion of use of Micro Nutrients and bio-fertilizers</b>		
3.1	Zinc/Boron/Molybdenum (Based on soil testing value)	<b>Zinc</b> : Zinc sulphate @ 25 kg/ha is recommend -ed as basal application for every three cropping sequences. Molybdenum Suppliment @ 1 g Ammonium Molybdate/kg seed(as seed inoculation with Rhizobium + PSB in Chickpea).	800.00
3.2	Rhizobium and PSB	<p><b>Specific Rhizobium, PSB Culture</b></p> <p>Every year each pulse crop should be inoculated with appropriate Rhizobial inoculants.</p> <p>Seed should be treated first with fungicide as per recommendations.</p> <p>Prepare a slurry of 500 g each of Rhizobium and PSB culture in one litre of jaggery solution (by dissolving 50 g Jaggary in one litre of hot water and cool it.</p> <p>Spread inoculants slurry over 80-100 kg of seed</p> <p>If found difficult to treat such a big quantity of seed then it should be divided in 3-4 parts and accordingly inoculants slurry should also be divided.</p> <p>Mix the inoculants slurry in shade with seed so that every seed should be coated well. Treat with Molybdenum.</p> <p>Sow the inoculated seed as early as possible and do not keep the treated seeds overnight.</p>	100.00
4	Plant Protection	<b>Pigeonpea:</b> Profenofos 50 EC @ 2 Lit/ha, Dimethoate 30 EC@1 Lit/ha, <b>Chickpea</b> : Profenofos 50 EC @ 2 Lit/ha, <b>Letnil</b> : Dimethoate 30 EC@1 Lit/ha, <b>Field pea, Cowpea, Urd, Moong</b> : Triazophos 40EC @ 1 Lit/ha or need based application of NPV 250 LE /ha.	1100.00
5	IPM	Light trap as recommended by ICAR/SAU/KVK and it should be need based.	1800.00
6	Publicity material/Visit of Scientists/Field Day		800.00
	<b>Total</b>	-	<b>7500.00</b>

**FRONT LINE DEMONSTRATION ON INTERCROPING (COTTON)**

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Cotton Seed	12.5 kg	1875
2	Arhar/ Moong Seed	600 gm	375
3	Micro Nutrient /Zinc Sulphate	25 kg	3750
4	PSB Culture	5 kg	
5	Triazophos 40EC	1.25 lit.	
6	Neem Oil / NPV 500 LE	2 lit.	
7	Publicity material/Visit of Scientists/Field Day	-	1000
<b>Total Cost</b>			<b>7000</b>

**FRONT LINE DEMONSTRATION ON DESI AND ELS COTTON /ELS COTTON SEED PRODUCTION (COTTON)**

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Desi Cotton Seed JK-5, Jawahar Tapti	12.5 kg	1875
2	PSB Culture	5 kg	5125
3	Neem Oil / NPV 500 LE	2 Liter	
4	Pendimethalin	5 Liter	
5	Triazophos 40EC	1.25 lit.	
6	Fenvalerate 20EC	500 ml	
7	Publicity material/Visit of Scientists/Field Day	-	1000
<b>Total</b>			<b>8000</b>

**FRONT LINE DEMONSTRATION ON INTEGRATED CROP MANAGEMENT (ICM) (COTTON)**

Amount in Rs.

S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Cotton Seed	10 kg	1500
2	Azotobacter	400 Gm	4500
3	PSB Culture	5 kg	
4	Neem Oil / NPV 500 LE	2 Liter	
5	Imidacloprid 17.8 SL	250 ml	
6	Pendimethalin	5 Liter	
7	Planofix / Plant Growth	150 ml	
8	Publicity material/Visit of Scientists/Field Day	-	1000
<b>Total</b>			<b>7000</b>

### TRAILS ON HIGH DENSITY PLANTING SYSTEM (COTTON)

			Amount in Rs.
S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Desi Cotton Seed	12.5 kg	1875
2	PSB Culture	5Kg	6125
3	Zinc Sulphate	25 Kg.	
4	Fenvalerate 20EC	500ml.	
5	Neem Oil /NPV 500 LE	2 lit.	
6	Triazophos 40 EC	1.25 lit.	
7	Pendimethalin	5lit.	
8	Publicity material/Visit of Scientists/Field Day	-	1000
<b>Total Cost</b>			<b>9000</b>

### INTERVENTIONS FOR INTERCROPPING DEMONSTRATION FOR SUGARCANE (COMMERCIAL CROP)

			Amount in Rs.
S.No.	Name of Interventions	Recommended by Agriculture Scientist	Total cost /ha
1	Intercropping Demonstration of Sugarcane :- Certified seed. (Seed including seed treatment)	Seed Wheat 40Kg or Gram 35 kg / Hect.	1400.00
2	soil treatment (appropriate & recommended)	soil treatment with Trichoderma viride @ 5 g/ kg	200.00
3	Zinc Sulphate	Zinc : Zinc sulphate @ 25 kg/ha is recommended as basal application for every three cropping sequences. If deficiency of Zinc is appears on the standing crop, 0.5% foliar application of Zinc sulphate is recommended (Neutrilize with 0.25% lime) two to three spray at the interval of 10-15 days are required.	500.00
4	Boron	Borex 10 kg	600.00
5	Plant Protection	Neem oil 1500 ppm 3 liter	2500.00
		chlorpyrifos 20% EC 1.5 liter	
		Prophenophos 50% EC 2 liter	
6	IPM	Use of Light traps as developed/ recommended by ICAR/SAU/KVK and it should be need based.	1800.00
7	Publicity material/Visit of Scientists/Field Day	Crop cutting	1000.00
<b>Total</b>			<b>8000.00</b>

# Physical and Financial Progress Report : (2016-17)

## 1. NFSM-Rice

Month-December 2016

(Rs. In lakh)

S. No.	Intervention	Approved Rate /Unit	Target		Achiev.	
			Phy.	Fin.	Phy.	Fin.
	<b>(a) Direct seeded Rice/Line Transplanting/SRI (Target 1.5% of area of District)</b>					
	(i) Direct seeded rice	Rs.7500/ha.	1800	135.00	1734	41.70
	(ii) Line transplanting		1800	135.00	1667	39.98
	(iii) SRI		1800	135.00	1600	38.04
	(b) Cluster Demonstrations on Hybrid Rice (One cluster of 100 ha)	Rs.7500/ha	1600	120.00	1450	40.66
	(c) Demonstration on Stress tolerant varieties of 100 ha.each	Rs.7500/ha	1600	120.00	1450	33.26
	<b>(d) Cropping System based demonstrations</b>					
	(i) (Rice-Pulses (Urad, Moong, Moth, Cowpea & Tur)	Rs.12500/ha	1240	155.00	1049	37.55
	(ii) Rice-Wheat		1400	175.00	1219	41.46
	<b>Sub total 1 (a to d)</b>		<b>11240</b>	<b>975</b>	<b>10169</b>	<b>273</b>
<b>2</b>	<b>Seed Distribution</b>					
	(a) Hybrid Rice Seed	Rs.5000/qtl	5000	250.00	900	0.00
	(b) HYVs Seeds	Rs.1000/qtl	23800	238.00	5020	0.98
	<b>Sub total 2 (a to b)</b>		<b>28800</b>	<b>488</b>	<b>5920</b>	<b>0.98</b>
<b>3</b>	<b>Soil Management</b>					
	(a) Micronutrients	Rs.500/ha	19000	95.00	12165	35.05
	(b) Liming in Acidic Soils	Rs.1000/qtl	10000	100.00	1800	11.77
	<b>Sub Total 3 (a+b)</b>		<b>29000</b>	<b>195.00</b>	<b>13965</b>	<b>46.82</b>
<b>4</b>	<b>Plant Protection Management</b>					
	(i) Plant Protection Chemicals and bio-agents	Rs.500/ha	20000	100.00	12440	45.68
	(ii) Weedicides	Rs.500/ha	14000	70.00	7160	21.89
	<b>Sub total 4 (a+b)</b>		<b>34000</b>	<b>170.00</b>	<b>19600</b>	<b>67.56</b>
<b>5</b>	<b>Water Application Tools</b>					
	(a) Pumpsets	Rs.10000/Unit	410	41.00	73	7.71
	(a) Water carrying pipes	Rs.50/M for HDPE pipes, Rs.35/-M for PVC pipes and Rs.20/-M for HDPE laminated woven lay flat tubes	450	67.50	12	1.58
	<b>Sub total 5 (a+b)</b>		<b>860</b>	<b>108.50</b>	<b>85</b>	<b>9.29</b>
<b>6</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 )	Rs.3500/Session Rs.14000/Training	174	24.36	128	8.05
<b>7</b>	<b>Other Initiatives</b>					
	(a) Demonstration by NGOs /KVKs	Rs.7500/ha.	<b>650</b>	<b>48.75</b>	<b>100</b>	<b>0.00</b>
	<b>Grand Total</b>			<b>2009.61</b>		<b>405.33</b>

## 2. NFSM-Pulses

**Month-December 2017**

**(Rs. In lakh)**

S.No.	Interventions	Approved Rate /Unit	Target		Achievement	
			Phy.	Fin.	Phy.	Fin.
<b>1</b>	<b>*Demonstrations on Improved Technologies:</b>					
	(a) Cluster Demonstrations (of 100 ha each) Moong, Urd. Pigeonpea					
	Arhar	Rs.7500/ha	9000	675.00	6833	271.28
	Gram	Rs.7500/ha	40000	3000.00	22629	813.52
	Urd	Rs.7500/ha	11600	870.00	5788	172.51
	Moong	Rs.7500/ha	30374	2278.05	14050	468.10
	Lentil	Rs.7500/ha	10400	780.00	7143	235.47
	(b) Demo. on intercropping	Rs.7500/ha	15000	1125.00	8066	198.24
	(c) Cropping System Based Demonstrations					
	(i) Paddy-Pulse	Rs.12500/ha	8000	1000.00	4542	117.86
(ii) Pulse - Wheat	Rs.12500/ha	13320	1665.00	8308	375.60	
<b>Sub total 1 (a to c)</b>			<b>137694</b>	<b>11393.05</b>	<b>77359</b>	<b>2652.57</b>
<b>2</b>	<b>Production and Distribution of HYVs Seeds</b>					
<b>a)</b>	<b>Distribution of Seeds</b>					
	Arhar	Rs.2500/qtl	20450	511.25	737	10.79
	Gram		113300	2832.50	2760	36.04
	Urd	Rs.2500/qtl	26100	652.50	1297	3.26
	Moong	Rs.2500/qtl	58000	1450.00	2109	26.10
	Lentil		10000	250.00	26	0.15
<b>Sub Total 2-(a)</b>			<b>227850</b>	<b>5696.25</b>	<b>6928</b>	<b>76.33</b>
<b>b)</b>	<b>Assistance for seed production</b>					
	Arhar	Rs.2500/qtl	20450	511.25	515	2.15
	Gram		113300	2832.50	2924	0.66
	Urd	Rs.2500/qtl	26100	652.50	1665	0.24
	Moong	Rs.2500/qtl	58000	1450.00	2580	0.52
	Lentil		10000	250.00	0	0.00
<b>Sub total 2 (b)</b>			<b>227850</b>	<b>5696.25</b>	<b>7684</b>	<b>3.57</b>
<b>3</b>	<b>Integrate Nutrient Management:</b>					
	(a) Micro-nutrients	Rs.500/ha	264306	1321.53	152436	440.87
	(b) Gypsum/80% WG Sulphur	Rs.750/ha	150000	1125.00	71363	288.19
	(c) Lime	Rs.1000/ha	80000	800.00	19448	117.38
	(d) Bio-fertilizers	Rs.300/ha	150000	450.00	65418	119.33
<b>Sub total 3 (a to d)</b>			<b>644306</b>	<b>3696.53</b>	<b>308665</b>	<b>965.77</b>
<b>4</b>	<b>Integrated Pest Management (IPM)</b>					
	(a) Distribution of PP chemicals	Rs.500/ha	300000	1500.00	183671	676.74
	(b) Weedicides	Rs.500/ha	100000	500.00	56836	217.94
<b>Sub total 4 (a to b)</b>			<b>400000</b>	<b>2000.00</b>	<b>240507</b>	<b>894.68</b>
<b>5</b>	<b>Efficient Water Application Tools:</b>					
	(a) Sprinkler Sets	Rs.10000/ha	7000	700.00	3102	285.73
	(b) Pump Sets	Rs.10000/Unit	5000	500.00	1330	97.92
	(c) Pipe for carrying water from source to the field	Rs.50/M for HDPE pipes, Rs.35/-M for PVC pipes and Rs.20/-M for HDPE laminated woven lay flat tubes	7000	1050.00	1368	128.25
	(d) Mobile Rain gun	Rs. 15000/Unit	30	4.50	6	0.00
<b>Sub total (a to d)</b>			<b>19030</b>	<b>2254.50</b>	<b>5806</b>	<b>511.90</b>

**Pulses Continued.....**

S.No.	Interventions	Approved Rate /Unit	Target		Achievement	
			Phy.	Fin.	Phy.	Fin.
6	Cropping System based trainings (4 Sessions i.e. 1 before Kharif and rabi seasons, 1 each during Kharif and Rabi Crops)	Rs.3500/ Session Rs.14000/ Training	2712	379.68	1911	222.81
7	Miscellaneous Expenses PMT Miscellaneous Expenses at District level			602.00	10	250.01
	Other Miscellaneous Expenses at District level					37.87
8	Demonstration by NGO/KVKs	Rs. 7500/ha	1000	75.00	68	10.06
<b>Grand Total</b>				<b>31793.26</b>		<b>5587.70</b>

**3. NFSM-Coarse Cereals**

**Month-December 2016 (Rs. In lakh)**

SI. No	Interventions	Apporved Rate /Unit	Target		Achievement	
			Phy.	Fin.	Phy.	Fin.
1	<b>(a) Demonstration of Improved package</b>					
	(i) Maize	Rs. 5000/ha	18000	900.00	16295	158.56
	(ii) Jowar (Sorghum)	Rs. 5000/ha	2100	105.00	1500	5.07
	(iii) Bajra (Pear Millet)	Rs. 5000/ha	1800	90.00	1599	27.64
	(iv) Any Other (kodo-Kutki)	Rs. 5000/ha	1500	75.00	500	0.42
	(b) Demonstration on intercropping	Rs. 5000/ha	1002	50.10	552	2.42
	<b>Sub-total 1 (a to b)</b>		<b>24402</b>	<b>1220.10</b>	<b>20446</b>	<b>194.11</b>
2	<b>Distribution of Certified Seed</b>					
	(a) HVY seeds	Rs.1500/Qtls	5000	75.00	570	
	(b) Hybrid Seeds	Rs.5000/Qtls	8958	447.90	2090.4	33.15
	<b>Sub-total 2 (a to b)</b>		<b>13958</b>	<b>522.90</b>	<b>2660.4</b>	<b>33.15</b>
<b>Grand Total</b>				<b>1743.00</b>		<b>227.26</b>

**4. NFSM-Cotton**

**Month-December 2016 (Rs. In lakh)**

S. No.	Intervention	Approved Rate /Unit	Target		Achievement	
			Phy.	Fin.	Phy.	Fin.
1	Front Line Demonstration (FLD) on Integrated Crop Management (ICM)	Rs.7000/ha. (Rs.6000-input & Rs.1000-conti.)	455	31.85	0.00	0.00
2	FLD on Deshi and ELS Cotton /ELS Cotton Seed Production.	Rs.8000/ha.(Rs.7000- input & Rs.1000 contin.)	150	12.00	0.00	0.00
3	FLD on Intercropping	Rs.7000/ha.(Rs.6000-input & Rs.1000-conti.)	750	52.50	0.00	0.00
4	Trials on High Density Planting System HDPS	Rs.9000/ha.(Rs.8000 - input & Rs.1000-contin)	252	22.68	0.00	0.00
<b>Grand Total</b>					<b>119.03</b>	



## 5. NFSM-Sugarcane

Month- December 2016

(Rs. In lakh)

SI. No	Interventions	Apporved Rate of Assistance	Target		Achievement	
			Phy.	Fin.	Phy.	Fin.
1	Demonstration on intercropping and single bud chip technology with sugarcane	Rs. 8000 per ha. (Rs.7000 - inputs & Rs.1000-Contingency)	392	31.36	198	9.16
2	State level training by sugarcane research institutes, SAUs, KVK etc.	Rs. 40000/Training	4	1.60	0	0.00
<b>Grand Total</b>				<b>32.96</b>		<b>9.16</b>

## 6. NFSM-Wheat

Month- December 2016

(Rs. In lakh)

S. No.	Interventions	Approved Rate of Assistance	Target		Achiev.		
			Phy.	Fin.	Phy.	Fin.	
<b>1</b>	<b>*Demonstrations on Improved Technologies:</b>						
	a. Cluster Demo. (100 ha each )	Rs.7500/ha	13000	975.00	15183	363.26	
	b. Cropping system based demonstrations(Rice-Wheat, Pulse-Wheat)					0.00	
	(i) Rice-Wheat	Rs.12500/ha	2300	287.50	1518	37.62	
	(ii)Pulse-Wheat		2300	287.50	935	46.95	
<b>2</b>	<b>Seed Distribution: HYVs seeds</b>	Rs.1000/qtl	77640	776.40	16639	71.11	
<b>3</b>	<b>Need Based Plant/Soil Management</b>					0	0.00
	<b>Soil Management:</b>					0	0.00
	(a) Micronutrients	Rs.500/ha	48004	240.02	27009	43.60	
	(b) Gypsum	Rs.750/ha	9500	71.25	1756	6.88	
	<b>Plant Protection Management:</b>					0	0.00
	(c) Plant Protection Chemicals & bio-agents	Rs.500/ha	38000	190.00	17837	26.41	
	(d) Weedicides	Rs.500/ha	16400	82.00	5710	4.42	
<b>4</b>	<b>Efficient Water Application Tools:</b>					0	0.00
	(a) Water carrying pipes	Rs.50/M for HDPE pipes, Rs.35/-M for PVC pipes and Rs.20/-M for HDPE laminated woven lay flat tubes	650	97.50	104	2.87	
	(b) Pumpsets	Rs.10000/Unit	749	74.90	109	4.12	
	(c) Sprinkler sets	Rs.10000/ha	970	97.00	260	14.52	
	(d) Mobile Rain Gun	Rs. 15000/Unit	16	2.40	1	0.06	
<b>5</b>	Cropping system based trainings (Four Sessions i.e. one before Kharif and rabi seasons. One each during Kharif and Rabi crops )	Rs.3500/ session Rs.14000/Training	<b>277</b>	38.78	135	1.54	
	Other Initiatives				0	0.00	
	(a) Demonstration by NGOs/KVKs	Rs. 7500/ha	<b>892</b>	66.90	100	2.80	
<b>Grand Total</b>				<b>3287.15</b>		<b>626.14</b>	

**NATIONAL FOOD SECURITY MISSION PHYSICAL & FINANCIAL TARGETS FOR 2016-17: PULSES**

**(Rs.in lakh)**

S.No.	Interventions	Approved Rate of Assistance	Unit	Sagar		Damoh		Panna		Tikamgarh		Chhatarpur		Target approved by GOI	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	<b>*Demonstrations on Improved Technologies</b>														
	<b>(a) Cluster Demonstrations (of 100 ha each) ha</b>														
	Gram	Rs.7500/ha		2300	172.50	2300	172.50	1200	90.00	400	30.00	1200	90.00	40000	3000
Lentil	Rs.7500/ha		900	67.50	400	30.00	700	52.50	100	7.50	200	15.00	10400	780	
2	<b>Production and Distribution of HYVs Seeds</b>														
2 A	<b>Distribution of Seeds</b>														
	Gram	Rs.2500/qtl		6600	165.00	6500	162.50	3500	87.50	1000	25.00	3300	82.50	113300	2832.5
	Lentil	Rs.2500/qtl		870	21.75	400	10.00	650	16.25	100	2.50	200	5.00	10000	250
2B	<b>Assistance for seed production</b>														
	Gram	Rs.2500/qtl		6600	165.00	6500	162.50	3500	87.50	1000	25.00	3300	82.50	113300	2832.5
	Lentil	Rs.2500/qtl		870	21.75	400	10.00	650	16.25	100	2.50	200	5.00	10000	250
3	<b>Integrate Nutrient Management</b>														
(a)	Micro-nutrients	Rs.500/ha or 50% or whichever is less	ha	12400	62.00	10700	53.50	7200	36.00	1800	9.00	5400	27.00	198229.0	991.1
(b)	Gypsum/80% WG Sulphur	Rs.750/ha or 50% or whichever is less	ha	7000	52.50	6000	45.00	4000	30.00	1000	7.50	3050	22.88	112500.0	843.8
(c)	Lime	Rs.1000/ha or 50% or whichever is less		3700	37.00	3000	30.00	2000	20.00	550	5.50	1600	16.00	60000.0	600.0
(d)	Bio-fertilizers	Rs.300/ha or 50% or whichever is less	ha	7000	21.00	6000	18.00	4000	12.00	1000	3.00	3050	9.15	112500	337.5
4	<b>Integrated Pest Management (IPM)</b>														
(a)	Distribution of PP Chem.	Rs.500/ha or 50% or whichever is less	ha	14000	70.00	12000	60.00	8100	40.50	2000	10.00	6200	31.00	225000	1125
5	Demo. by NGO/KVKs	Rs. 7500/ha		47	3.53	41	3.08	27	2.03	7	0.53	21	1.58	750	56.25
<b>Total</b>					<b>859.53</b>		<b>757.08</b>		<b>490.53</b>		<b>128.03</b>		<b>387.60</b>		<b>13898.65</b>

**NATIONAL FOOD SECURITY MISSION PHYSICAL & FINANCIAL TARGETS FOR 2016-17: WHEAT**

Sl. No.	Interventions	Approved Rate of Assistance	Unit	Sagar		Panna		Tikamgarh		Chhatarpur		Total			
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.		
1	<b>*Demonstrations on Improved Technologies:</b>														
	Cluster Demonstrations (of 100 ha each )	Rs.7500/ha	ha	900	67.50	300	22.50	600	45.00	500	37.50	13000	975		
2	<b>Seed Distribution: HYVs seeds</b>	Rs.1000/qtl	qtl	5500	55.00	1600	16.00	3300	33.00	3060	30.60	77640	776.4		
3	<b>Need Based Plant/Soil Management:</b>														
	<b>Soil Management:</b>														
	(a) Micronutrients	Rs.500/ha or 50% of costwhichever is less	ha	3400	17.00	970	4.85	2000	10.00	1900	9.50	48004	240.02		
(b) Gypsum	Rs.750/ha or 50% of costwhichever is less	ha	700	5.25	200	1.50	400	3.00	360	2.70	9500	71.25			
4	<b>Plant Protection Management</b>														
	(c) Plant Protection Chemicals & bio-agents	Rs.500/ha or 50% of costwhichever is less	ha	2700	13.50	800	4.00	1600	8.00	1500	7.50	38000	190		
	(d) Weedicides	Rs.500/ha or 50% of costwhichever is less	ha	1150	5.75	330	1.65	700	3.50	640	3.20	16400	82		
5	<b>Efficient Water Application Tools</b>														
	(a) Water carrying pipes	50% or Rs.50/M for HDPE pipes, Rs.35/M for PVC pipes & Rs.20/M for HDPE laminated woven lay flat tubes ,Rs.15000/-per farmer/beneficiary for water carrying pipes	Mtr	45	6.75	20	3.00	25	3.75	25	3.75	650	97.5		
	(b) Pumpsets	Rs.10000/Unit or 50% of costwhichever is less	Nos.	54	5.40	20	2.00	30	3.00	30	3.00	749	74.9		
	(c) Sprinkler sets	Rs.10000/ha or 50% of costwhichever is less	ha	70	7.00	20	2.00	40	4.00	40	4.00	970	97		
	(d) Mobile Rain Gun	Rs. 15000/Unit or 50% of costwhichever is less	Nos.	1	0.15		0.00	1	0.15	1	0.15	16	2.4		
6	<b>Other Initiatives</b>														
	(a) Demonstration by NGOs/KVKs	Rs. 7500/ha	ha	60	4.50	25	1.88	40	3.00	35	2.63	892	66.9		
<b>Grand Total (1 to 6)</b>							<b>187.80</b>		<b>59.38</b>		<b>116.40</b>		<b>104.53</b>		<b>2673.37</b>

**PATTERN OF ASSISTANCE: NFSM –PULSES**

S. No.	Intervention	Approved rates /Unit
1	<b>*Demonstrations on Improved Technologies:</b>	
	Cluster Demonstrations (of 100 ha each) (Arhar, Urd, Moong, Gram, Lentil)	Rs.7500/-ha
	Cropping System based Demonstration (Paddy- Pulses, Pulses- Wheat)	Rs.12500/-ha
	Demo. Intercropping	Rs. 7500/-ha
2	<b>Production &amp; Distribution of HYVs seed</b> (Arhar, Urd, Moong, Gram, Lentil)	Rs.2500/-Qtl.
3	<b>Integrate Nutrient Management:</b>	
	Micro-nutrients	Rs.500/-ha or 50% of the cost whichever is less
	Gypsum/80% WG Sulphur	Rs.750/-ha or 50% of the cost whichever is less
	Lime	Rs.1000/-ha or 50% of the cost whichever is less
	Bio-fertilizers	Rs.300/-ha or 50% of the cost whichever is less
4	<b>Integrated Pest Management (IPM)</b>	
	Distribution of PP Chemicals	Rs.500/-ha or 50% of the cost whichever is less
	Weedicides	Rs.500/-ha or 50% of the cost whichever is less
5A.	<b>Resource Conservation Technologies/Tools:</b>	
	Manual Sprayer	Rs. 600/Unit or 50% of the cost whichever is less
	Power Knap Sack Sprayer	Rs.3000/Unit or 50% of the cost whichever is less
	Zero Till Seed Drills	Rs.15000/Unit or 50% of the cost whichever is less
	Multi Crop Planters	Rs.15000/Unit or 50% of the cost whichever is less
	Seed Drills	Rs.15000/Unit or 50% of the cost whichever is less
	Zero Till Multi -Crop Planters	Rs.15000/Unit or 50% of the cost whichever is less
	Ridge Furrow Planter	Rs.15000/Unit or 50% of the cost whichever is less
	Chiseller	Rs.8000/Unit or 50% of the cost whichever is less
	Rotavator	Rs.35000/Unit or 50% of the cost whichever is less
	Laser Land Leveler	Rs.150000/Unit or 50% of the cost whichever is less
	Tractor mounted sprayer	Rs. 10000/Unit or 50% of the cost whichever is less
	Multi crop thresher	Rs. 40000/Unit or 50% of the cost whichever is less
5B.	<b>Other machinery approved by SMAM</b>	
	Reversible plough	Rs. 35000/Unit or 50% of the cost whichever is less
6	<b>Efficient Water Application Tools:</b>	
	Sprinkler Sets	Rs.10000/ ha or 50% of the cost whichever is less
	Pump Sets	Rs.10000/Unit or 50% of the cost whichever is less
	Pipe for carrying water from source to the field	@ 50% of the cost limited to RS. 50/ m for HDPE pipes, RS. 35 / m for PVC pipes & Rs 20/ m for HDPE laminated woven lay flat tubes with maximum ceiling of Rs. 15000 per beneficiary for water carrying pipes.
	Mobile Rain gun	Rs. 15000/Unit or 50% of the cost whichever is less
7	<b>Cropping System based trainings</b>	Rs.3500/ Sess. Rs.14000/ Trai.
8	<b>Miscellaneous Expenses :.</b>	
	PMT & Other Misc. Exp. at District Level	
	PMT & Other Misc. Exp. at State Level	
9	<b>Local Initiative</b>	
	Power weeder	Rs. 15000/Unit or 50% of the cost whichever is less
	Raised bed planter	Rs. 44000/ Unit or 50% of the cost whichever is less
	Manual/ Bullock drawn Implements	Rs. 5000/ Unit or 50% of the cost whichever is less
	Movable Threshing Floor	Rs. 1338/ha or 50% of the cost whichever is less
	Happy seeder	Rs. 63000/Unit
10	Demonstrations by (KVK)	Rs.7500/ha

**PATTERN OF ASSISTANCE: NFSM –WHEAT**

S. No.	Intervention	Approved rates /Unit
1	<b>*Demonstrations on Improved Technologies:</b>	
	Cluster Demonstrations (of 100 ha each)	Rs.7500/-ha
	Cropping System based Demonstration (Paddy-Wheat, Pulses-Wheat)	Rs.12500/-ha
2	<b>Production &amp; Distribution of HYVs seed</b>	Rs.1000/-Qtl.
3	<b>Integrate Nutrient Management:</b>	
	Micro-nutrients	Rs.500/-ha or 50% of the cost whichever is less
	Gypsum	Rs.750/-ha or 50% of the cost whichever is less
4	<b>Integrated Pest Management (IPM)</b>	
	Distribution of PP Chemicals & bio-agents	Rs.500/-ha or 50% of the cost whichever is less
	Weedicides	Rs.500/-ha or 50% of the cost whichever is less
5	<b>Resource Conservation Technologies/Tools:</b>	
	<b>A. Under NFSM</b>	
	Manual Sprayer	Rs. 600/Unit or 50% of the cost whichever is less
	Power Knap Sack Sprayer	Rs.3000/Unit or 50% of the cost whichever is less
	Zero Till Seed Drill	Rs.15000/Unit or 50% of the cost whichever is less
	Multi Crop Planter	Rs.15000/Unit or 50% of the cost whichever is less
	Power Weeders	Rs.15000/Unit or 50% of the cost whichever is less
	Seed drill	Rs.15000/Unit or 50% of the cost whichever is less
	Zero Till Multi Crop Planter	Rs.15000/Unit or 50% of the cost whichever is less
	Chiseller	Rs.8000/Unit or 50% of the cost whichever is less
	Rotavator/Turbo seeder	Rs.35000/Unit or 50% of the cost whichever is less
	Laser Land Leveler	Rs.150000/Unit or 50% of the cost whichever is less
	Tractor mounted sprayer	Rs. 10000/Unit or 50% of the cost whichever is less
Multi crop thresher	Rs. 40000/Unit or 50% of the cost whichever is less	
	<b>B. Other machinery approved under SAMA (Sub Mission on Agriculture Mechanization)</b>	As per approved norms of SMAM
	Reaper cum Binder	Rs. 125000/Unit or 50% of the cost whichever is less
6	<b>Efficient Water Application Tools:</b>	
	Sprinkler Sets	Rs.10000/ ha or 50% of the cost whichever is less
	Pump Sets	Rs.10000/Unit or 50% of the cost whichever is less
	Pipe for carrying water from source to the field	@ 50% of the cost limited to RS. 50/ m for HDPE pipes, RS. 35 / m for PVC pipes & Rs 20/ m for HDPE laminated woven lay flat tubes with maximum ceiling of Rs. 15000 per beneficiary for water carrying pipes
	Mobile Rain gun	Rs. 15000/Unit or 50% of the cost whichever is less
7	<b>Cropping System based trainings</b>	Rs.3500/ Sess. Rs.14000/ Trai.
8	<b>Miscellaneous Expenses .:</b>	
	PMT & Other Misc. Exp. at District Level	
	PMT & Other Misc. Exp. at State Level	
9	<b>Local Initiative</b>	
	Straw Reaper	Rs. 40000/Unit or 50% of the cost whichever is less
	Spiral Grader	Rs. 2362/Unit or 50% of the cost whichever is less
10	<b>Other Initiative</b>	
	Demonstrations by NGOs	Rs. 8250/ha
	Assistance of Custom Hiring Centres	Rs. 1500/ha

**PATTERN OF ASSISTANCE: NFSM- RICE**

S.No.	Name of Interventions	Pattern of Assistance
<b>1</b>	<b>Cluster Demonstrations by State Department of Agri. With the technical backstopping of ICAR/SAUs/IRRI (One Cluster of 100 ha)</b>	
	Cluster Demonstrations on DSR	Rs.7500 per ha
	Cluster Demo. on Line transplanting	Rs.7500 per ha
	Cluster Demonstrations on SRI	Rs.7500 per ha
	Cluster Demo. on Hybrid Rice	Rs.7500 per ha
	Demo. on Stress tolerant var.	Rs.7500 per ha
	Cropping system based Demonstrations	Rs.12500 per ha
<b>2.</b>	<b>Seed Distribution</b>	
	High Yielding Varieties of Rice	Rs.1000/q or 50% of the cost whichever is less
	Hybrid Rice Seed	Rs. 5000/q or 50% of the cost whichever is less
<b>3.</b>	<b>A. Soil &amp; Plant Protection Management</b>	
	Micronutrients	Rs. 500/ha or 50% of the cost whichever is less
	Lime	Rs.1000/q or 50% of the cost whichever is less
	<b>B. Plant Protection Management</b>	
	PP Chemicals & bio agents	Rs. 500/ha or 50% of the cost whichever is less
	Weedicides	Rs. 500/ha or 50% of the cost whichever is less
<b>4</b>	<b>Resource Conservation Techniques/Tools</b>	
	<b>A. Under NFSM</b>	
	Cono-weeder	Rs.600/ unit or 50% of the cost whichever is less
	Manual Sprayer	Rs.600/ unit or 50% of the cost whichever is less
	Power Sprayer	Rs.3000/ unit or 50% of the cost whichever is less
	Seed drills	Rs.15000/ unit or 50% of the cost whichever is less
	Multi crop Planter	Rs.15000/ unit or 50% of the cost whichever is less
	Power weeder	Rs.15000/ unit or 50% of the cost whichever is less
	Zero Till Multi Crop Planter	Rs.15000/ unit or 50% of the cost whichever is less
	Drum Seeder in rice	Rs.1500/ unit or 50% of the cost whichever is less
	Rotavators /turbo seeder	Rs.35000/ unit or 50% of the cost whichever is less
	Laser Land Leveler	Rs.150000/ unit or 50% of the cost whichever is less
	Paddy Thresher/Multi crop thresher	Rs.40000/unit or 50% of the cost whichever is less
	Self Propelled Paddy Transplanter	Rs.75000/unit or 50% of the cost whichever is less
	Power sprayer	Rs.3000/powerd sprayer or 50% of the cost whichever is less
	<b>B. Other machinery approved under SAMA</b>	
	Rice Straw Reaper	Rs. 63000/Unit or 50% of the cost whichever is less
<b>5</b>	<b>Water Application Tools</b>	
	Pump Sets	Rs. 10000/Unit or 50% of the cost whichever is less
	Pipe for carrying water from source to the field	@ 50% of the cost limited to RS. 50/ m for HDPE pipes, RS. 35 / m for PVC pipes & Rs 20/ m for HDPE laminated woven lay flat tubes with maximum ceiling of Rs. 15000 per beneficiary for water carrying pipes
<b>6</b>	<b>Cropping System based trainings</b>	
		Rs.3500/ Sess. Rs.14000/ Trai.
<b>7</b>	<b>Miscellaneous Expenses:.</b>	
	PMT & Other Misc. Exp. at District Level	
	PMT & Other Misc. Exp. at State Level	
<b>8</b>	<b>Local Initiative</b>	
	Happy Seeder	Rs. 63000/Unit or 50% of the cost whichever is less
	Reaper Cum Binder	Rs125000/Unit or 50% of the cost whichever is less
<b>9</b>	<b>Other Initiative</b>	
	Demonstrations by NGOs	Rs. 7500/ha
	Assistance of Custom Hiring Centers	Rs. 1500/ha

## PATTERN OF ASSISTANCE: NFSM- COARSE CEREALS

S.No.	Name of Interventions	Pattern of Assistance
<b>1</b>	<b>Demonstrations</b>	
	<b>A.Improved packages</b>	
	Coarse cereals- Maize, Jowar, Bajra, Kodo-Kutki,	Rs.5000/ ha
	<b>B.Demo. on Intercropping</b>	Rs.5000 / ha
<b>2</b>	<b>Distribution of Certified Seed</b>	
	Hybrids Seeds	Rs.5000/q or 50% of the cost whichever is less
	HYV Seeds	Rs.1500/q or 50% of the cost whichever is less

## PATTERN OF ASSISTANCE: NFSM- COTTON

S. No.	Name of Interventions	Pattern of Assistance
<b>1</b>	Front Line Demonstration (FLDs) on Integrated Crop Management (ICM)	Rs.7000/ha (Rs. 6000 for inputs & Rs. 1000 for Contingency)
<b>2</b>	FLDs on Deshi & ELS Cotton/ELS Cotton Seed Production	Rs.8000/ha (Rs. 7000 for inputs & Rs. 1000 for Contingency)
<b>3</b>	FLDs on Intercropping	Rs.7000/ha (Rs. 6000 for inputs & Rs. 1000 for Contingency)
<b>4</b>	Trials on High Density Planting System HDPS	Rs.9000/ha (Rs. 8000 for inputs & Rs. 1000 for Contingency)

## PATTERN OF ASSISTANCE: NFSM -SUGARCANE

S. No.	Name of Interventions	Pattern of Assistance
<b>1</b>	Demonstration on Intercropping & Single Bud chip technology with Sugarcane	Rs.8000/ha (Rs. 7000 for inputs & Rs. 1000 for Contingency )
<b>2</b>	State level training by Sugarcane research institutes, SAUs, KVKs, etc.	Rs.40000/ Training



## SCHEME-WISE SUBSIDY PATTERN: AGRICULTURAL MACHINERY

(Amount in Rs.)

S. No.	Name of Scheme	Component	Category of Farmers	Subsidy rate	Remarks
1	RKVY, NMOOP, NMSA	Sprinkler Set	Marginal & Small Farmers	Rs.9800/- per ha or 50% of cost whichever less.	
			Others farmers	Rs.6860/- per ha or 35% of cost whichever less.	Farmers have more than 2 ha land, subsidy have been reduced from 50% to 35 %. This is discrepancy in the scheme of NMOOP, RKVY & NMSA. The pattern of subsidy should be equal to NFSM.
2	NFSM	Sprinkler Set	All Category Farmers	Rs.10000/- per ha or 50% of cost whichever less.	
3	NMOOP, SMAM	Thresher and Rotavator	20 -35 HP, Marginal, Small, SC & ST farmers	Rs.25000/- per Machine or 50% of cost whichever less.	The discrepancy have been found in the Scheme of SMAM & NMOOP in the subsidy pattern. The pattern of subsidy should be equal to NFSM.
			20 -35 HP, Other Farmers	Rs.20000/- per Machine or 40% of cost whichever less.	
			More than 35HP, Marginal, Small, SC & ST farmers	Rs.63000/- per Machine	
			More than 35 HP, Other Farmers	Rs.50000/- per Machine	
4	NFSM	Rotavator	All Category Farmers	Rs.35000/-per Machine or 50% cost whichever less	
		Thresher	All Category Farmers	Rs.40000/-per Machine or 50% cost whichever less	

Note: Variation in subsidy pattern in various schemes i.e RKVY, NMSA, NMOOP, SMAM and NFSM. Field level functionaries are facing a lot of problem in this regard to satisfy the farmers.

## SCHEME-WISE AGRI. MACHINERY SUBSIDY PATTERN

(Amount in Rs.)

S. No.	Scheme	Component	Category of Farmers	Scheme proposed Subsidy	Top-Up Proposed	Total Subsidy
1	NFSM	Sprinkler	All Category Farmers	Rs.10000/-ha or 50% of cost whichever less	4500/-	14500/-
2	RKVY, NMOOP, NMSA	Sprinkler	Marginal & Small Farmer	Rs.9800/-ha or 50% of cost whichever less	4500/-	14300
			Large Farmer (2 ha. above lend )	Rs.9800/-ha or 35% of cost whichever less	4500/-	11360
3	NMOOP, SMAM	Thresher and Rotavator	20 -25 HP Small, Marginal, SC & ST	Rs.25000/-ha or 50% of cost whichever less	-	-
			20 -25 HP Other Farmer	Rs.2000/-ha or 40% of cost whichever less	-	-
			35HP Small, Marginal, SC & ST	Maximum 63000/-	-	-
			35 HP Other Farmer	Maximum 50000/-	-	-
4	NFSM	Rotavator	All Category Farmers	Rs.35000/-ha or 50%	-	-
		Thresher	All Category Farmers	Rs.40000/-ha or 50%	-	-

Note: Therefore, according to the above, variation in subsidy pattern in various scheme, field functionaries facing problem for satisfying farmers.

## Target & Achievement of Kharif & Rabi Crops: (2016-17)

(A) Kharif -2016

(Area: Lakh ha, Prodn: Lakh tons)

CROPS	Madhya Pradesh			
	Target		Achievement	
	Area	Production	Area	Production
Rice	21.24	35.10	22.60	72.55
Sorghum	2.73	5.00	2.20	4.63
Bajra	2.32	4.60	2.80	6.79
Small Millets	2.08	1.10	1.85	1.30
Maize	11.00	20.00	12.63	43.32
Arhar	7.79	5.80	6.90	10.45
Urdbean	11.00	4.70	11.68	10.75
Mungbean	2.50	1.00	2.25	1.01
Other Pulses	0.22	0.20	0.34	0.13
Soybean	56.50	68.00	54.01	70.48
Groundnut	2.40	4.00	2.55	4.49
Sesame	4.90	1.60	3.80	2.58
Other Oilseeds	0.80	0.35	0.75	0.32
Cotton	5.72	20.00	5.99	20.41
Others	-	-	-	-
<b>Total Kharif</b>	<b>131.20</b>	<b>171.45</b>	<b>130.35</b>	<b>249.21</b>

Target & Achievement, SDA, Govt. of MP/CG, Achievement: II<sup>nd</sup> Advance Estimates

**(B) Rabi-2016-17****(Area: Lakh ha, Prodn: Lakh tons)**

<b>CROPS</b>	<b>Madhya Pradesh</b>			
	<b>Target</b>		<b>Achievement</b>	
	<b>Area</b>	<b>Production</b>	<b>Area</b>	<b>Production</b>
Wheat	64.22	148.00	62.23	210.06
Other Cereals	0.70	1.70	1.48	3.81
Gram	31.65	35.60	32.22	37.70
Lentil	6.10	-	5.74	6.66
Pea	5.20	-	5.05	4.84
Lathyrus	0.00	-	-	-
Other Pulses	0.50	7.80	0.74	0.53
Rapeseed/Mustard	6.20	9.00	7.23	8.02
Linseed	1.12	0.60	1.69	0.59
Other Oilseeds	0.35	0.30	0.00	0.21
Sugarcane	1.12	51.00	0.99	54.48
Others	0.00	0.00	-	-
<b>Total Rabi</b>	<b>117.16</b>	<b>254.00</b>	<b>117.37</b>	<b>326.90</b>

**Target & Achievement, SDA, Govt. of MP/CG, Achievement: I<sup>st</sup> Advance Estimates**

## IMPLEMENT-WISE SUBSIDY PATTERN (XII<sup>th</sup> plan)

S.No.	Implement	Unit	Rate of Assistance (Subsidy amount/unit)
1.	Zero till seed drill	Nos.	Rs. 15000 or 50% of the cost whichever is less
2.	Multi crop planter	Nos.	Rs. 15000 or 50% of the cost whichever is less
3.	Seed Drill	Nos.	Rs. 15000 or 50% of the cost whichever is less
4.	Zero till multi crop planter	Nos.	Rs. 15000 or 50% of the cost whichever is less
5.	Ridge furrow planter	Nos.	Rs. 15000 or 50% of the cost whichever is less
6.	Rotavator	Nos.	Rs. 35000 or 50% of the cost whichever is less
7.	Chiseller	Nos.	Rs. 8000 or 50% of the cost whichever is less
8.	Laser Land Leveller	Nos.	Rs.1.50 lakh per machine to a <b>Group of 10 Farmers</b>
9.	Tractor Mounted Sprayer	Nos.	Rs. 10000 or 50% of the cost whichever is less
10.	Multi crop thresher	Nos.	Rs. 40000 or 50% of the cost whichever is less
11.	Sprinkler sets.	Hac.	Rs. 10,000 or 50% of the cost whichever is less
12.	Pump sets upto 10 HP	Nos.	Rs. 10,000 or 50% of the cost whichever is less
13.	Pipe for carrying water from source to field	Meters	@ 50% of the cost limited to RS. 50/ m for HDPE pipes, RS. 35 / m for PVC pipes & Rs 20/ m for HDPE laminated woven lay flat tubes with maximum ceiling of Rs. 15000 per beneficiary for water carrying pipes.
14.	Mobile Raingun	Nos.	Rs. 15,000 or 50% of the cost whichever is less
15.	Power knap sack sprayer	Nos.	Rs. 3000 or 50% of the cost whichever is less
16.	Manual sprayers	Nos.	Rs. 600 or 50% of the cost whichever is less

### **SUBSIDY PATTERN UNDER NFSM IMPLEMENTS**

(Rs. In lakhs)

<b>Name of Implement</b>	<b>NFSM (Max. Subsidy 50%)</b>	<b>SC/ST/small/marginal/women farmers (Max. subsidy 50%)</b>	<b>Other farmers (Max. subsidy 40 %)</b>
Multi-crop Planter	0.15	0.63	0.50
Seed Drill	0.15	0.44	0.35
Power Weeder	0.15	0.19	0.15
Zero-till-Multi-crop Planter	0.15	0.44	
Rotavator	0.35	0.63	0.50
Laser land leveller	1.50	0.63	0.50
Paddy Thresher/ Multi-crop Thresher	0.40	0.63	0.50
Paddy Transplanter	0.75	0.94 (4 row), 2.0 (above 4 row)	0.75 (4 row) 2.0 (above 4 row)

## Implements Image:

 <p>Zero Till Drill SNP</p>	 <p>NATIONAL</p>	 <p>वीशाल सीड ड्रिल 9 ये 13 टाइस</p>
<p><b>Zero till seed drill</b> (use in conservation Agri.&amp; sowing crop seeds without pre-ploughing)</p>	<p><b>Multi crop planter</b> (Planting all types of seeds e.g. POC&amp;CoC)</p>	<p><b>Seed Drill</b> (sowing seeds with specific distance)</p>
 <p>NATIONAL ZERO TILL MULTI CROP PLANTER</p>	 <p>NATIONAL ZERO TILL MULTI CROP PLANTER</p>	 <p>ROTAVATOR</p>
<p><b>Zero till multi crop planter</b> (plant different crops with variable seed size, seed rate, depth, spacing etc.)</p>	<p><b>Ridge furrow planter</b> (planting seeds/tubers on ridges &amp; to make furrows with specific dist.)</p>	<p><b>Rotavator</b> (Break &amp; turn the soil upto 9" in depth)</p>
		
<p><b>Chiseller</b> (Deep Ploughing , Function: Loosen &amp; Aerated the soil by break hard pans of soil )</p>	<p><b>Laser Land Leveller</b> (Leveling the field within certain degree)</p>	<p><b>Sprinkler sets</b> (Control irrigation water from seepage and evaporation)</p>





**Pump sets upto 10 HP (Irrigation)**



**Reaper (Crop cutting)**



**Pipes (carrying water from source to field)**



**Tractor Mounted Sprayer**



**MultiCrop Thresher**

**Multi crop thresher (Threshing all type of grains)**



**Mobile Raingun (spray water at high pressure)**



**Power knap sack sprayer**



**Manual sprayers**

# NORMAL AREA, PRODUCTION & YIELD OF KHARIF CROPS

(Area in "000" ha, Production "000" Tones, Yield kg./ ha)

S. No.	Crops	Districts/ State	2013-14			2014-15			2015-16*			Average				
			A	P	Y	A	P	Y	A	P	Y	A	% Share	P	% Share	Y
<b>A. Cereals</b>																
1	Paddy	Sagar	4.80	6.39	1330	4.70	6.10	1298	6.50	2.80	430	5.33	0.26	5.09	0.15	955
		Panna	56.40	99.52	1765	55.70	112.57	2021	55.40	26.37	476	55.83	2.74	79.49	2.37	1424
		Tikamgarh	12.60	16.84	1336	13.20	6.26	474	6.40	1.40	219	10.73	0.53	8.17	0.24	761
		Chhatarpur	11.65	15.20	1304	9.80	10.85	1107	7.80	4.47	573	9.75	0.48	10.17	0.30	1043
		<b>MP</b>	<b>1930.00</b>	<b>2844.82</b>	<b>1474</b>	<b>2153</b>	<b>3625.30</b>	<b>1684</b>	<b>2024.00</b>	<b>3579</b>	<b>1768</b>	<b>2035.67</b>	<b>6.59</b>	<b>3349.65</b>	<b>3.18</b>	<b>1645</b>
		<b>All India</b>	<b>44135.95</b>	<b>106645.55</b>	<b>2416</b>	<b>44111</b>	<b>105482.08</b>	<b>2391</b>	<b>4388.08</b>	<b>104317</b>	<b>23773</b>	<b>30878.20</b>		<b>105481.49</b>		<b>3416</b>
2	Jowar (Total)	Sagar	1.30	0.80	615	3.30	4.96	1503	2.50	1.86	744	2.37	1.05	2.54	0.66	1073
		Panna	3.10	3.00	968	2.40	3.18	1325	2.50	2.63	1050	2.67	1.18	2.94	0.76	1101
		Tikamgarh	2.20	1.00	455	1.00	0.56	555	0.50	0.20	408	1.23	0.55	0.59	0.15	475
		Chhatarpur	6.60	3.40	515	3.30	2.71	822	3.10	3.13	1011	4.33	1.92	3.08	0.80	711
		<b>MP</b>	<b>253.10</b>	<b>371.00</b>	<b>1466</b>	<b>220.00</b>	<b>377.00</b>	<b>1714</b>	<b>205.00</b>	<b>410.00</b>	<b>2000</b>	<b>226.03</b>	<b>3.85</b>	<b>386.00</b>	<b>7.52</b>	<b>1708</b>
		<b>All India</b>	<b>5793.44</b>	<b>5541.81</b>	<b>957</b>	<b>6161.39</b>	<b>5445.30</b>	<b>884</b>	<b>5653.40</b>	<b>4411.01</b>	<b>780</b>	<b>5869.41</b>		<b>5132.71</b>		<b>874</b>
3	Bajra (Total)	Sagar							0.03	0.02	801	0.01	0.004	0.01	0.002	801
		Panna							0.03	0.02	728	0.01	0.004	0.01	0.002	728
		Tikamgarh										0.00	0.000	0.00	0.000	
		Chhatarpur							0.03	0.01	481	0.01	0.004	0.00	0.00	481
		<b>MP</b>	<b>189.60</b>	<b>379.80</b>	<b>2003</b>	<b>225.00</b>	<b>445.00</b>	<b>1978</b>	<b>267.00</b>	<b>588.28</b>	<b>2203</b>	<b>227.20</b>	<b>3.12</b>	<b>471.03</b>	<b>5.40</b>	<b>2073</b>
		<b>All India</b>	<b>7530.72</b>	<b>8919.09</b>	<b>1184</b>	<b>7317.95</b>	<b>9184.22</b>	<b>1255</b>	<b>6983.35</b>	<b>8057.35</b>	<b>1154</b>	<b>7277.34</b>		<b>8720.22</b>		<b>1198</b>
4	Maize (Total)	Sagar	2.60	6.10	2346	5.30	6.95	1312	4.60	5.06	1099	4.17	0.40	6.04	0.29	1449
		Panna	3.50	3.90	1114	4.60	5.93	1290	2.10	3.38	1611	3.40	0.33	4.41	0.21	1296
		Tikamgarh	2.20	1.80	818	6.00	3.46	576	1.30	1.77	1365	3.17	0.31	2.34	0.11	740
		Chhatarpur	0.60	0.30	500	5.20	3.52	677	0.80	1.12	1400	2.20	0.21	1.65	0.08	749
		<b>MP</b>	<b>868.00</b>	<b>1534.00</b>	<b>1767</b>	<b>1132.00</b>	<b>2128.20</b>	<b>1880</b>	<b>1098.00</b>	<b>2580.30</b>	<b>2350</b>	<b>1032.67</b>	<b>11.50</b>	<b>2080.83</b>	<b>8.89</b>	<b>2015</b>
		<b>All India</b>	<b>9066.26</b>	<b>24259.51</b>	<b>2676</b>	<b>9185.38</b>	<b>24172.66</b>	<b>2632</b>	<b>8691.24</b>	<b>21806.54</b>	<b>2509</b>	<b>8980.96</b>		<b>23412.90</b>		<b>2607</b>
5	Small millet (Total)	Sagar	0.40	0.10	250	1.50	0.38	256	0.18	0.08	425	0.69	0.44	0.19	0.24	269
		Panna	1.30	0.50	385	1.50	0.60	400	0.12	0.05	403	0.97	0.62	0.38	0.49	393
		Tikamgarh				0.30	0.11	380	0.06	0.02	383	0.12	0.08	0.05	0.06	381
		Chhatarpur				0.10	0.04	378	0.06	0.02	374	0.05	0.03	0.02	0.03	377
		<b>MP</b>	<b>227.70</b>	<b>114.53</b>	<b>503</b>	<b>123.00</b>	<b>72.00</b>	<b>585</b>	<b>123.00</b>	<b>50.06</b>	<b>407</b>	<b>157.90</b>	<b>25.33</b>	<b>78.86</b>	<b>20.03</b>	<b>499</b>
		<b>All India</b>	<b>682.30</b>	<b>429.91</b>	<b>630</b>	<b>589.59</b>	<b>385.87</b>	<b>654</b>	<b>598.48</b>	<b>365.29</b>	<b>610</b>	<b>623.46</b>		<b>393.69</b>		<b>631</b>
6	Total Coarse Cereals (Total)	Sagar	9.10	13.39	1471	14.80	18.40	1243	13.81	9.81	3499	12.57	0.34	13.87	0.22	1103
		Panna	64.30	106.92	1663	64.20	122.28	1905	60.15	32.45	4268	62.88	1.71	87.22	1.37	1387
		Tikamgarh	17.00	19.64	1155	20.50	10.38	506	8.26	3.40	2375	15.25	0.41	11.14	0.17	730
		Chhatarpur	18.85	18.90	1003	18.40	17.12	930	11.79	8.76	3839	16.35	0.44	14.93	0.23	913
		<b>MP</b>	<b>3468.40</b>	<b>5244.15</b>	<b>1512</b>	<b>3853.00</b>	<b>6647.50</b>	<b>1725</b>	<b>3717.00</b>	<b>7207.48</b>	<b>8728</b>	<b>3679.47</b>	<b>6.86</b>	<b>6366.38</b>	<b>4.45</b>	<b>1730</b>
		<b>All India</b>	<b>67208.66</b>	<b>145795.85</b>	<b>2169</b>	<b>67364.88</b>	<b>144670.13</b>	<b>2148</b>	<b>26314.55</b>	<b>138957.02</b>	<b>28826</b>	<b>53629.36</b>		<b>143141.00</b>		<b>2669</b>

# NORMAL AREA, PRODUCTION & YIELD OF KHARIF CROPS

(Area in "000" ha, Production "000" Tones, Yield kg./ ha)

S. No.	Crops	Districts/ State	2013-14			2014-15			2015-16*			Average				
			A	P	Y	A	P	Y	A	P	Y	A	% Share	P	% Share	Y
<b>B. Pulses</b>																
1	Arhar	Sagar	6.26	14.20	2267	5.80	6.37	1098	11.60	7.85	677	7.89	1.51	9.47	1.94	1201
		Panna	14.00	11.20	800	15.30	14.75	964	17.50	11.15	637	15.60	2.99	12.37	2.53	793
		Tikamgarh	0.20	0.01	70	0.10	0.02	222	0.20	0.04	184	0.17	0.03	0.02	0.00	146
		Chhatarpur	12.00	3.45	287	8.30	4.97	599	9.40	6.03	642	9.90	1.90	4.82	0.98	487
		<b>MP</b>	<b>464.00</b>	<b>332.00</b>	<b>716</b>	<b>521.00</b>	<b>511.00</b>	<b>981</b>	<b>579.00</b>	<b>624.79</b>	<b>1079</b>	<b>521.33</b>	<b>13.60</b>	<b>489.26</b>	<b>17.39</b>	<b>938</b>
	<b>All India</b>	<b>3904.44</b>	<b>3174.40</b>	<b>813</b>	<b>3853.54</b>	<b>2807.32</b>	<b>729</b>	<b>3745.85</b>	<b>2457.93</b>	<b>656</b>	<b>3834.61</b>		<b>2813.22</b>		<b>734</b>	
2	Urd	Sagar	17.00	5.40	318	33.00	17.56	532	61.40	30.70	500	37.13	4.61	17.89	4.37	482
		Panna	12.00	4.60	383	12.30	8.06	655	16.70	11.67	699	13.67	1.70	8.11	1.98	593
		Tikamgarh	68.90	12.60	183	84.50	14.87	176	94.70	19.32	204	82.70	10.26	15.60	3.81	189
		Chhatarpur	78.20	31.60	404	85.30	62.18	729	94.80	74.80	789	86.10	10.68	56.19	13.73	653
		<b>MP</b>	<b>601.70</b>	<b>226.00</b>	<b>376</b>	<b>882.00</b>	<b>440.00</b>	<b>499</b>	<b>935.00</b>	<b>562.00</b>	<b>601</b>	<b>806.23</b>	<b>23.42</b>	<b>409.33</b>	<b>20.97</b>	<b>508</b>
	<b>All India</b>	<b>3061.96</b>	<b>1698.64</b>	<b>555</b>	<b>3246.09</b>	<b>1959.38</b>	<b>604</b>	<b>4019.10</b>	<b>2198.65</b>	<b>547</b>	<b>3442.38</b>		<b>1952.22</b>		<b>567</b>	
3	Moong	Sagar	1.40	0.40	286	5.50	2.16	392	4.00	0.76	190	3.63	1.25	1.11	0.84	304
		Panna	1.80	0.70	389	1.90	1.29	679	2.70	0.92	342	2.13	0.73	0.97	0.73	455
		Tikamgarh	5.10	1.90	373	4.00	1.30	325	6.30	1.04	165	5.13	1.77	1.41	1.07	275
		Chhatarpur	8.70	3.20	368	7.80	4.24	543	8.00	2.16	270	8.17	2.81	3.20	2.42	392
		<b>MP</b>	<b>316.40</b>	<b>146.08</b>	<b>462</b>	<b>261.00</b>	<b>124.37</b>	<b>477</b>	<b>295.00</b>	<b>126.32</b>	<b>428</b>	<b>290.80</b>	<b>8.52</b>	<b>132.26</b>	<b>8.42</b>	<b>455</b>
	<b>All India</b>	<b>3382.51</b>	<b>1605.46</b>	<b>475</b>	<b>3019.03</b>	<b>1503.01</b>	<b>498</b>	<b>3832.11</b>	<b>1603.49</b>	<b>418</b>	<b>3411.22</b>		<b>1570.65</b>		<b>460</b>	
<b>C. Oilseeds</b>																
1	Soybean	Sagar	329.00	94.55	287	321.00	196.45	612	314.40	151.54	482	321.47	5.42	147.51	2.68	459
		Panna	29.10	17.70	608	27.80	39.00	1403	28.50	12.03	422	28.47	0.48	22.91	0.42	805
		Tikamgarh	72.70	40.50	557	55.70	30.52	548	47.30	28.57	604	58.57	0.99	33.20	0.60	567
		Chhatarpur	77.40	46.40	599	57.40	80.02	1394	48.70	49.87	1024	61.17	1.03	58.76	1.07	961
		<b>MP</b>	<b>6308.60</b>	<b>5242.45</b>	<b>831</b>	<b>5578.00</b>	<b>6353.00</b>	<b>1139</b>	<b>5906.00</b>	<b>4907.89</b>	<b>831</b>	<b>5930.87</b>	<b>51.89</b>	<b>5501.11</b>	<b>53.54</b>	<b>928</b>
	<b>All India</b>	<b>11716.43</b>	<b>11860.84</b>	<b>1012</b>	<b>10910.83</b>	<b>10373.80</b>	<b>951</b>	<b>11664.86</b>	<b>8591.83</b>	<b>737</b>	<b>11430.71</b>		<b>10275.49</b>		<b>899</b>	
2	Groundnut	Sagar	0.80	0.40	500	1.00	0.97	971	1.60	1.15	720	1.13	0.50	0.84	0.24	742
		Panna	0.10	0.10	1000	0.10	0.11	1065	0.20	0.19	927	0.13	0.06	0.13	0.04	980
		Tikamgarh	19.20	23.00	1198	20.00	22.06	1103	21.30	21.53	1011	20.17	8.98	22.20	6.38	1101
		Chhatarpur	4.70	4.90	1043	5.20	5.12	984	10.10	6.30	624	6.67	2.97	5.44	1.56	816
		<b>MP</b>	<b>206.90</b>	<b>324.20</b>	<b>1567</b>	<b>231.00</b>	<b>370.00</b>	<b>1602</b>	<b>236.00</b>	<b>350.00</b>	<b>1483</b>	<b>224.63</b>	<b>4.54</b>	<b>348.07</b>	<b>4.37</b>	<b>1549</b>
	<b>All India</b>	<b>5504.91</b>	<b>9713.90</b>	<b>1765</b>	<b>4768.65</b>	<b>7401.71</b>	<b>1552</b>	<b>4555.04</b>	<b>6770.61</b>	<b>1486</b>	<b>4942.87</b>		<b>7962.07</b>		<b>1611</b>	
3	Sesamum/ Til	Sagar	0.68	0.18	269	1.20	0.33	279	1.90	0.67	350	1.26	0.38	0.39	0.23	313
		Panna	20.65	12.17	590	23.20	15.06	649	28.70	10.85	378	24.18	7.32	12.69	7.28	525
		Tikamgarh	25.11	7.49	298	25.70	6.68	260	34.00	13.09	385	28.27	8.56	9.09	5.21	321
		Chhatarpur	78.73	27.39	348	85.70	44.99	525	85.80	36.72	428	83.41	25.25	36.37	20.86	436
		<b>MP</b>	<b>266.90</b>	<b>140.12</b>	<b>525</b>	<b>359.00</b>	<b>186.00</b>	<b>518</b>	<b>365.00</b>	<b>197.00</b>	<b>540</b>	<b>330.30</b>	<b>18.45</b>	<b>174.37</b>	<b>21.72</b>	<b>528</b>
	<b>All India</b>	<b>1678.90</b>	<b>714.58</b>	<b>426</b>	<b>1746.06</b>	<b>827.83</b>	<b>474</b>	<b>1946.72</b>	<b>865.97</b>	<b>445</b>	<b>1790.56</b>		<b>802.79</b>		<b>448</b>	

Source: DES, GOI, M/A, New Delhi \*Forth Advance Estimates

## NORMAL AREA, PRODUCTION & YIELD OF RABI CROPS

(Area in "000" ha, Production "000" Tones, Yield kg./ ha)

Crops	Districts/ State	2013-14			2014-15			2015-16*			Average				
		A	P	Y	A	P	Y	A	P	Y	A	% Share	P	% Share	Y
<b>A. Cereals</b>															
Wheat	Sagar	233.90	498.12	2130	212.30	433.94	2044	158.00	346.49	2193	201.40	3.49	426.19	2.68	2116
	Panna	70.00	189.20	2703	56.40	139.76	2478	45.00	78.66	1748	57.13	0.99	135.87	0.85	2378
	Tikamgarh	157.20	411.20	2616	116.50	301.74	2590	94.00	180.10	1916	122.57	2.13	297.68	1.87	2429
	Chhatarpur	183.40	499.21	2722	121.60	274.33	2256	88.00	161.30	1833	131.00	2.27	311.61	1.96	2379
	<b>MP</b>	<b>5380.00</b>	<b>12937.02</b>	<b>2405</b>	<b>6002.00</b>	<b>17103.90</b>	<b>2850</b>	<b>5911.00</b>	<b>17688.67</b>	<b>2993</b>	<b>5764.33</b>	<b>18.76</b>	<b>15909.86</b>	<b>17.30</b>	<b>2760</b>
	<b>All India</b>	<b>30473.18</b>	<b>95849.83</b>	<b>3145</b>	<b>31465.60</b>	<b>86526.60</b>	<b>2750</b>	<b>30227.60</b>	<b>93500.80</b>	<b>3093</b>	<b>30722.13</b>		<b>91959.08</b>		<b>2993</b>
Barley	Sagar	0.59	0.82	1390	0.60	0.75	1244	0.82	2.06	2498	0.67	0.76	1.21	0.86	1799
	Panna	3.97	6.90	1739	3.00	3.37	1122	3.68	8.84	2402	3.55	3.99	6.37	4.53	1794
	Tikamgarh	11.41	14.20	1245	6.00	6.93	1155	4.70	11.70	2492	7.37	8.29	10.94	7.78	1486
	Chhatarpur	18.54	19.30	1041	7.00	7.67	1095	7.54	15.87	2104	11.03	12.40	14.28	10.15	1295
	<b>MP</b>	<b>86.70</b>	<b>150.00</b>	<b>1730</b>	<b>83.00</b>	<b>104.30</b>	<b>1257</b>	<b>97.00</b>	<b>167.81</b>	<b>1730</b>	<b>88.90</b>	<b>13.53</b>	<b>140.70</b>	<b>8.53</b>	<b>1583</b>
	<b>All India</b>	<b>673.50</b>	<b>1830.65</b>	<b>2718</b>	<b>707.46</b>	<b>1612.99</b>	<b>2280</b>	<b>589.81</b>	<b>1505.43</b>	<b>2552</b>	<b>656.92</b>		<b>1649.69</b>		<b>2511</b>
<b>B</b>	<b>Pulses</b>														
Gram	Sagar	175.00	105.35	602	166.00	150.56	907	171.65	178.52	1040	170.88	5.68	144.81	4.56	847
	Panna	92.00	42.96	467	88.00	69.70	792	72.30	83.51	1155	84.10	2.79	65.39	2.06	778
	Tikamgarh	28.20	15.34	544	26.00	15.81	608	16.56	16.18	977	23.59	0.78	15.78	0.50	669
	Chhatarpur	89.40	44.61	499	83.00	67.31	811	49.32	42.32	858	73.91	2.46	51.41	1.62	696
	<b>MP</b>	<b>3160.10</b>	<b>3299.14</b>	<b>1044</b>	<b>2853.00</b>	<b>2964.00</b>	<b>1039</b>	<b>3017.00</b>	<b>3265.00</b>	<b>1082</b>	<b>3010.03</b>	<b>34.04</b>	<b>3176.05</b>	<b>39.66</b>	<b>1055</b>
	<b>All India</b>	<b>9927.38</b>	<b>9526.40</b>	<b>960</b>	<b>8251.12</b>	<b>7331.83</b>	<b>889</b>	<b>8349.07</b>	<b>7169.08</b>	<b>859</b>	<b>8842.53</b>		<b>8009.10</b>		<b>906</b>
Lentil	Sagar	45.74	24.90	544	45.00	27.45	610	45.26	51.37	1135	45.33	11.89	34.57	13.75	763
	Panna	34.86	24.15	693	34.00	24.21	712	25.60	36.22	1415	31.49	8.26	28.20	11.21	895
	Tikamgarh	4.79	0.76	159	4.79	1.46	305	0.52	0.48	925	3.37	0.88	0.90	0.36	268
	Chhatarpur	9.90	3.64	368	9.00	3.80	422	5.80	5.31	915	8.23	2.16	4.25	1.69	516
	<b>MP</b>	<b>530.10</b>	<b>338.30</b>	<b>638</b>	<b>613.69</b>	<b>416.01</b>	<b>678</b>				<b>381.26</b>	<b>40.71</b>	<b>251.44</b>	<b>36.75</b>	<b>659</b>
	<b>All India</b>	<b>1341.20</b>	<b>1017.48</b>	<b>759</b>	<b>1468.76</b>	<b>1035.14</b>	<b>705</b>				<b>936.65</b>		<b>684.21</b>		<b>730</b>
Peas	Sagar	14.90	8.60	577	14.00	9.32	666	25.64	24.64	961	18.18	8.23	14.19	6.47	780
	Panna	24.00	29.40	1225	23.00	29.12	1266	45.40	44.86	988	30.80	13.94	34.46	15.71	1119
	Tikamgarh	10.30	7.50	728	9.00	7.87	874	3.50	3.17	906	7.60	3.44	6.18	2.82	813
	Chhatarpur	23.60	14.30	606	12.00	8.59	716	20.10	16.32	812	18.57	8.41	13.07	5.96	704
	<b>MP</b>	<b>307.10</b>	<b>295.10</b>	<b>961</b>	<b>355.53</b>	<b>362.88</b>	<b>1021</b>				<b>220.88</b>	<b>34.22</b>	<b>219.33</b>	<b>36.31</b>	<b>993</b>
	<b>All India</b>	<b>961.16</b>	<b>922.87</b>	<b>960</b>	<b>975.43</b>	<b>889.32</b>	<b>912</b>				<b>645.53</b>		<b>604.06</b>		<b>936</b>

Source: DES, GOI, M/A, New Delhi \*Third Advance Estimates

**NORMAL AREA, PRODUCTION & YIELD OF RABI CROPS**

(Area in "000" ha, Production "000" Tones, Yield kg./ ha.)

Crops	Districts/ State	2013-14			2014-15			2015-16*			Average				
		A	P	Y	A	P	Y	A	P	Y	A	% Share	P	% Share	Y
<b>C</b>	<b>Oilseeds</b>														
<b>Rapeseed &amp; Mustard</b>	Sagar	0.61	0.55	900	1.00	0.61	612	3.93	2.92	741	1.85	0.27	1.36	0.18	735
	Panna	6.11	3.86	631	6.00	3.85	642	5.80	4.01	692	5.97	0.86	3.91	0.52	655
	Tikamgarh	28.11	12.48	444	17.00	7.82	460	8.95	6.31	705	18.02	2.58	8.87	1.18	492
	Chhatarpur	21.63	11.11	514	30.00	19.80	660	14.70	7.09	482	22.11	3.17	12.67	1.68	573
	<b>MP</b>	<b>762.00</b>	<b>844.30</b>	<b>1108</b>	<b>713.00</b>	<b>717.20</b>	<b>1006</b>	<b>617.00</b>	<b>700.00</b>	<b>1135</b>	<b>697.33</b>	<b>11.49</b>	<b>753.83</b>	<b>10.78</b>	<b>1081</b>
	<b>ALL India</b>	<b>6645.74</b>	<b>7876.65</b>	<b>1185</b>	<b>5799.08</b>	<b>6282.44</b>	<b>1083</b>	<b>5761.88</b>	<b>6821.48</b>	<b>1184</b>	<b>6068.90</b>		<b>6993.52</b>		<b>1152</b>
<b>Linseed</b>	Sagar	0.50	0.20	400	1.80	1.04	575	1.83	1.07	588	1.38	1.22	0.77	1.36	560
	Panna	0.90	0.50	556	1.00	0.54	543	0.84	0.50	595	0.91	0.81	0.51	0.91	563
	Tikamgarh	0.30	0.10	333	0.30	0.00	0	0.10	0.05	520	0.23	0.21	0.05	0.09	216
	Chhatarpur	8.60	3.40	395	7.40	3.39	458	2.75	1.13	409	6.25	5.56	2.64	4.67	422
	<b>MP</b>	<b>110.40</b>	<b>55.00</b>	<b>498</b>	<b>111.00</b>	<b>60.00</b>	<b>541</b>	<b>116.00</b>	<b>54.64</b>	<b>471</b>	<b>112.47</b>	<b>38.50</b>	<b>56.55</b>	<b>39.64</b>	<b>503</b>
	<b>ALL India</b>	<b>293.07</b>	<b>141.73</b>	<b>484</b>	<b>285.47</b>	<b>154.57</b>	<b>541</b>	<b>297.77</b>	<b>131.61</b>	<b>442</b>	<b>292.10</b>		<b>142.64</b>		<b>488</b>
<b>Sugarcane</b>	Sagar	0.60	18.92	31540	0.10	3.88	38770	0.12	3.99	33790	0.27	0.28	8.93	0.21	32748
	Panna	0.20	6.29	31450	0.10	3.36	33550	0.20	5.59	27970	0.17	0.17	5.08	0.12	30478
	Tikamgarh	0.30	11.05	36840	0.30	9.80	32660	1.30	42.64	32800	0.63	0.66	21.16	0.50	33416
	Chhatarpur	0.30	10.92	36400	0.30	10.10	33670	0.13	4.08	31600	0.24	0.25	8.37	0.20	34427
	<b>MP</b>	<b>73.10</b>	<b>3173.67</b>	<b>43415</b>	<b>111.00</b>	<b>4567.00</b>	<b>41144</b>	<b>103.00</b>	<b>5030.63</b>	<b>48841</b>	<b>95.70</b>	<b>1.91</b>	<b>4257.10</b>	<b>1.20</b>	<b>44484</b>
	<b>ALL India</b>	<b>4993.35</b>	<b>352141.83</b>	<b>70522</b>	<b>5066.78</b>	<b>362332.77</b>	<b>71511</b>	<b>4953.40</b>	<b>352162.92</b>	<b>71095</b>	<b>5004.51</b>		<b>355545.84</b>		<b>71045</b>

Source: DES, GOI, M/A, New Delhi \*Third Advance Estimates

**DISTRICT-WISE/CROP-WISE AREA, PRODUCTION AND YIELD WITH PREVAILING & RECOMMENDED PULSES VARIETIES IN MP**

District	Crop	Area (000 ha) *	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Jabalpur	Pigeonpea	11.23	11.53	1027	Asha, JA-4, UPAS-120	TJT-501		Asha, No-148, JKM-7, JA- 4,ICPL-85063 (Laxmi),
	Urdbean	21.69	6.10	281	T-9, PDU-4, JU-2	KU- 96-3		LBG 684, PU 30, 35 & 19, JBG 623
	Moongbean	1.10	0.37	333	HUM 1,2, TJM-7, PDM 139	HUM 1		PDM 54, PDM-139, Pusa Vishal
	Chickpea	63.10	71.33	1130	JG-16, JAKI-9218, Vishal	JAKI-9218 JGK-3, JGK-2 JG-322		Vishal JG 16
	Lentil	28.68	13.13	458	JL-1, L 4046,JL 3	IPL 81, JL 3		RVL 31, L 4076, JL 1
	Peas	29.97	18.47	616	Arkel, JM-3	KPMR 400, Prakash		Arkel, JP 885
	<b>Total Pulses</b>	<b>159.5</b>	<b>124.9</b>	<b>783</b>				
Katni	Pigeonpea	7.92	5.63	711	Asha, TJT-501, JA 4	JKM 189		JKM 7, Laxmi, Pragati, Jagriti
	Urdbean	4.27	1.80	422	LBG 20, PDU 1	KU 96-3		PU 30
	Moongbean	0.20	0.10	500	PDM 139, Pusa Vishal, K-851	HUM-1		JM 721, HUM 6, LGG 460
	Chickpea	31.10	28.80	926	JG 11, JG 130, JG 16	JG 130, JG 14, JG 322		JG 12, JG 11 JG-63
	Lentil	18.02	10.00	555	JL 3, JL 1	IPL 81, JL-3		JL -1, PL -8
	Peas	5.37	3.77	702	Arkel, Azad Pea 1	KPMR-400, Prakash		JM-1, JM-2, VL Matar-42
	<b>Total Pulses</b>	<b>67.37</b>	<b>50.22</b>	<b>746</b>				
Balaghat	Pigeonpea	5.33	5.43	1018	ICPL 88039, TJT 501	JKM-189		Asha, ICPL 87119, ICPL 85063, ICPL 88039
	Urdbean	5.31	2.31	435	LBG 20, T-9	KU-96-3		LBG-20, PU 30, PU 19
	Moongbean	0.10	0.00	0	TMB-37, SL-668	HUM-1		JM-721, JKM-6
	Chickpea	8.80	8.13	924	JG 315, JG 16, JG 63	JG-14	RVG 202, RVG 203	
	Lentil	0.21	0.10	498	JL-3, Malika, Shekhar M 3	IPL 81 (Noori)		JL-3
	Peas	1.00	0.40	400	Arkel, Azad 1	KPMR-400, Prakash		Rachna, Azad-1, JM-3
	<b>Total Pulses</b>	<b>36.58</b>	<b>76.71</b>	<b>2097</b>				

District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010- 2015)	Others
Chhindwara	Pigeonpea	27.59	41.51	1505	ICPL 87119, ICPL 85063	TJT-501		JA 4, Asha, ICPL 85063 (Laxmi)
	Urdbean	9.12	2.27	249	LBG 20, PDU 1	KU-96-3, RBU-38		MASH 338, PU 30
	Moongbean	2.40	0.63	264	PDM 139, Pusa Vishal, K-58	HUM-1, Pusa 9531		BM 4, Pusa 9531
	Chickpea	48.77	128.43	2634	JG 315, JG 63, Dollar chana	JG 14, JG 322	RVG 202	Vishal
	Lentil	5.40	3.23	597	JL 3, JL 1	JL-3		PL-4, PL-8
	Peas	6.77	4.37	645	Arkel, Azad pea 1	Prakash		VL Matar -42, JP-885, Azad Pea 1 & 2
	<b>Total Pulses</b>	<b>102.03</b>	<b>181.71</b>	<b>1781</b>				
Seoni	Pigeonpea	15.87	16.54	1042	ICPL 87, JKM 7, TJT 501	TJT-501		ICPL 87119, JKM 7, JA 4
	Urdbean	6.57	1.40	213	PDU 1, PU 35, T-9	KU-96-3		PU 30, PDU 1
	Moongbean	0.50	0.13	267	HUM 1, Pusa Vishal	HUM-1		JM 721, TARM 1, HUM 6
	Chickpea	48.30	40.80	845	JG 11, JG 63, JG 130	JG 14, JG 130	RVG 203	
	Lentil	21.71	10.71	494	JL 1, JL 3, JL 2, Malika	JL-3		JL-1, JLS 1
	Peas	9.73	4.97	510	Arkel, Azad 1,2 & 3	KPMR-400		JP-885, Azad 1,2& 3
	<b>Total Pulses</b>	<b>111.91</b>	<b>79.42</b>	<b>710</b>				
Mandla	Pigeonpea	6.09	3.63	595	TJT 501, ICPH 2671	TJT-501		ICPL 87119 (Asha)
	Urdbean	1.80	0.50	278	PU 35, PDU 1	KU-96-3		PU 30
	Moongbean	23.70	10.23	432	PDM 139, Pusa Vishal	HUM-1		JM 721, TARM 1, HUM 6
	Chickpea	10.07	6.40	636	JG 315, JG 11, JG 322	JG-14, JG-322		JG 63
	Lentil	23.70	10.23	432	JLS 1 & 2	JL-3		JL-1, Lens 4076
	Peas	25.13	6.17	245	Batri	KPMR 400, Prakash (IPFD 1-10)		Arkel
	<b>Total Pulses</b>	<b>69.45</b>	<b>28.09</b>	<b>405</b>				

Contds....



District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010- 2015)	Others
Dindori	Pigeonpea	6.01	2.04	340	TJT 501, Asha (ICPL 87119)	TJT-501		ICPL 87119 (Asha), BSMR-175
	Urdbean	3.73	1.13	304	LBG 20,Desi urd	KU-96-3		PU 30
	Moongbean	39.38	20.80	528	-	HUM-1		HUM 6
	Chickpea	9.17	4.63	505	JG 218, JG 315, JG 130	JG-63		JG 11
	Lentil	39.38	20.80	528	-	IPL-81		L-4076, HUL 57
	Peas	9.87	4.70	476	Local Batri	Ambika		Vikas (IPFD 99-13), Matar-42
	<b>Total Pulses</b>	<b>68.26</b>	<b>33.31</b>	<b>488</b>				
Narsingh pur	Pigeonpea	43.82	48.03	1096	ICPL-87119, TJT-501, Laxmi	TJT-501		ICPL-85063, No.-148
	Urdbean	10.14	3.97	391	PDU 1, T-9	KU-96-3		PDU-1, T-9
	Moongbean	2.27	1.00	441	K 851, HUM-16, Samrat	HUM-1		PDM-139, K-851, HUM-16
	Chickpea	109.63	114.80	1047	JG 315, JG 16			JG-315, JG 74, JG 16, JG 63
	Lentil	33.80	20.33	602	JL-3, L 4076, JL 1	IPL-81		JL-3, L 4076, K-75
	Peas	12.50	9.37	749	Arkel, Azad 1, Rachna	Ambika		JM-1, JM-2, JM-3, Arkel
	<b>Total Pulses</b>	<b>214.22</b>	<b>198.36</b>	<b>926</b>				
Sagar	Pigeonpea	12.54	5.83	465	TJT 501, ICPL 87119, ICPL 87			JA 4, ICPL 87 (Pragati), JKM 7
	Urdbean	25.14	8.63	343	Pant U-35, PDU 1	KU-96-3		PU 30, VB 3
	Moongbean	3.47	0.90	260	HUM 1, PDM 139	HUM-1		JM 721, Pusa Vishal
	Chickpea	177.60	168.97	951	JG 74, JG 63	JG-130, KAK-2		JG 63, JGG 1
	Lentil	43.38	21.63	499	Kala Masara, JL 3	JL-1		JL-3, PL-8
	Peas	14.23	8.00	562	Arkel, Azad -1	Adarsh (IPFD 25)		JM 6, JM 3
	<b>Total Pulses</b>	<b>280.65</b>	<b>216.69</b>	<b>772</b>				

Contds....

District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010- 2015)	Others
Tikamgarh	Pigeonpea	0.17	0.00	28	ICPL 87, ICPL 87119, TJT 501	TJT-501		JKM-7, Asha,
	Urdbean	81.47	16.63	204	PU-35, Shekhar 2	KU-96-3		PU 30, PU 19
	Moongbean	5.23	1.30	248	PU 35, HUM 1	HUM-1		HUM 6, LGG 460
	Chickpea	22.20	14.87	670	Dollar Chana, JG 130, JG 315	JG-14	RVG 202, RVG 203	
	Lentil	4.56	1.25	275	JL 3, JL 2	IPL-81 (Noori)		IPL 406, L 4076
	Peas	8.97	4.77	532	Arkel, Azad 1 & 2	Ambika, Prakash		Rachna, KPMR 522 (Jai)
	<b>Total Pulses</b>	<b>122.69</b>	<b>38.9</b>	<b>345</b>				
Damoh	Pigeonpea	22.79	16.93	743	ICPL-87119, TJT 501, Laxmi			ICPL-87119, Laxmi, JA-4, KM-7
	Urdbean	24.70	9.33	378	T-9, JU-3, PDU-35			TPU-4, PDU-1,
	Moongbean	0.70	0.23	333	K-851, HUM-12, PDM-139	TJM-3		JKM-189, PDM-139
	Chickpea	136.87	106.27	776	JG-315, JG-322, JG-63, JG-74	JG-130, JAKI-9218		JG-11 JG-63
	Lentil	24.19	13.47	557	JLS-1, K-75, JL-3	JL-3		JL-3, PL-4, L-4076
	Peas	13.20	7.03	533	Arkel, JM-1	Ambika, Prakash,		Arkel
	<b>Total Pulses</b>	<b>223.15</b>	<b>159.79</b>	<b>689</b>				
Panna	Pigeonpea	14.52	7.43	512	Asha, Laxmi	JKM-189		ICPL 87, ICPL 87119(Asha)
	Urdbean	12.97	4.80	370	PU-35, Shekhar 2	KU-96-3		PU 30
	Moongbean	2.23	0.93	418	HUM 1, HUM 12, TARM 1	HU- 1		JM 721, TARM 1, HUM 6
	Chickpea	89.03	74.53	837	JG-315, JG-130, JG 322	JG-14	RVG 203	Vishal
	Lentil	38.55	23.88	619	JL-3, K-75			PL-4, K-75
	Peas	21.37	16.50	772	Vikas, KPMR-400, Arkel			Pea-1, JM-3
<b>Total Pulses</b>								

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District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010- 2015)	Others
Chhatarpur	Pigeonpea	12.35	3.18	258	ICPL-87119, ICPL-88039, ICPL 87	TJT-501		JKM-7, UPAS 120, Asha
	Urdbean	71.33	21.03	295	PU-35, LBG-20			PU-35, PU-30, Azad-2
	Moongbean	8.13	2.13	262	TJM-3, K-851, JM 3			PDM-11, HUM-16, Meha, PDM-139
	Chickpea	89.93	92.77	1032	JG-315, JG-130, ICCV-37	JG-14, JG-130		JG-11, JG-16
	Lentil	9.07	2.75	303	JL-3, K 75	JL-3		DPL-62, DPL-15
	Peas	16.20	8.33	514	Vikas, KPMR-400	Adarsh, Prakash		JP-885, KPMR-522
	<b>Total Pulses</b>	<b>207.95</b>	<b>130.43</b>	<b>627</b>				
Rewa	Pigeonpea	34.36	12.56	366	ICPL 87, ICPL 151, TJT 501	TJT-501		ICPL 87119, ICPL 87, ICPL 151, No. 148
	Urdbean	12.33	4.03	327	Pant U-35, T-9, PDU 1	KU-96-3		PU 30, Mash 338
	Moongbean	4.07	0.93	230	HUM 1, HUM 12	HUM-1, Pusa-9531		HUM 6, LGG 460
	Chickpea	52.93	55.00	1039	JG 130, JG 63	JG-14		JG 12, ICCV 2
	Lentil	39.58	12.41	314	JL 2, JL-3	JL-3		L 4076, IPL 316, HUL 57
	Peas	0.87	0.40	462	Pea-1, Arkel, Azad 1 & 2			JM 54, Arkel, JP -885, Azad(P-1)
	<b>Total Pulses</b>	<b>146.74</b>	<b>86.54</b>	<b>589</b>				
Sidhi	Pigeonpea	21.72	6.71	309	TJT 501, ICPL 87119	JKM-189		ICPL 151, ICPL 87119
	Urdbean	4.83	1.80	372	LBG 20	KU-96-3, RBU-38		PU 30, Mash 338,
	Moongbean	2.53	0.83	329	HUM 1, HUM 12	HUM-1		HUM 6, LGG 460
	Chickpea	24.13	15.63	648	JG 130, JG 16	JG-14, KAK-2 JG -322		JG 63
	Lentil	5.47	2.93	536	Malika, Desi variety			PL 639, JL 1, JL 3, K-75, RVL-31
	Peas	0.80	0.33	417	Pea -1, Arkel, Azad 1	Ambika (IM 9102), KPMR-400		KPMR 522, JM 6
	<b>Total Pulses</b>	<b>60.45</b>	<b>28.68</b>	<b>474</b>				

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District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Singroli	Pigeonpea	19.15	22.20	1159	Asha, Pragati, Jagriti	TJT-501		Pusa 33, JKM 7
	Urdbean	6.47	2.60	402	Desi Urd,T-9	KU-96-3 RBU-38		PU 30, Mash 338
	Moongbean	0.20	0.10	500	K 851, Pusa Vaisakhi	HUM-1		TARM 1, HUM 6, LGG 460
	Chickpea	15.63	24.13	1544	JG 11, JG 14, JG 130	KAK-2, JG 322		JG 16
	Lentil	3.98	3.41	856	JL 3	IPL-81 (Noori), JL-3		L 4076
	Peas	0.87	0.87	1000	Arkel			Pea -1, Azad, Jawahar Matar 1
	<b>Total Pulses</b>	<b>46.49</b>	<b>53.40</b>	<b>1148</b>				
Satna	Pigeonpea	32.28	7.37	228	Jagriti, ICPL 87119, JA 4	JKM-189		ICPL-87119, JKM 7, JA 4
	Urdbean	22.67	4.40	194	PDU 1, PU 35			Pant U-31, AU-86, LBG-20
	Moongbean	4.50	0.87	193	PDM 139, HUM 1			Samrat, Meha, K-851, JM-721
	Chickpea	83.57	42.83	513	JG-315, JG 11, JG 16	JG-14, JG-322		JG-11, JG-63
	Lentil	37.09	11.29	304	JL 1, JL 3	JL-3		JL-1, PL-8
	Peas	4.10	1.47	358	Arkel, Rachna, Azad 1			Arkel, JM-3, JM-2
	<b>Total Pulses</b>	<b>184.20</b>	<b>68.25</b>	<b>371</b>				
Shahdol	Pigeonpea	12.97	6.80	525	ICPL 87119, Pusa 33, JA 4	TJT 501, JKM 7		ICPL 87119, JKM 7
	Urdbean	7.37	3.67	498	T-9, PU 35, PDU 1			JU1, JU-2, Pant U-31
	Moongbean	0.30	0.20	667	K 851, HUM 1, PDM 139	TJM-3, HUM-1		HUM-12,
	Chickpea	7.90	6.30	797	JG-16, JG-130, JG-11		Raj Vijay201	JG-315
	Lentil	1.53	1.23	802	K-75, JL-3	JL-3		JL-1, JM-15
	Peas	1.07	0.83	781	Arkel, Rachna	Indra (KPMR-400)		Arkel, KPMR 522
	<b>Total Pulses</b>	<b>85.33</b>	<b>19.20</b>	<b>225</b>				

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District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Anuppur	Pigeonpea	6.60	3.22	488	ICPL 87119, JA 4			BSMR 175, ICPL 87119, JKM 7
	Urdbean	2.80	1.37	488	T-9, PDU 1	KU 96-3		PU 30
	Moongbean	0.03	0.00	0.00	K 851, HUM 1, HUM 16	HUM 1		TARM 1, HUM 6, LGG 460
	Chickpea	6.07	3.07	505	JG 130, JG 74, JG 226	JG 130, JG 14, KAK 2, JG 322		
	Lentil	20.23	9.35	462	K-75, L-4076	JL-3		JL-1, K-75, L-4076
	Peas	2.37	1.20	507	Arkel, Rachna	Ambika		JM-2, JM-3, Rachna
	<b>Total Pulses</b>	<b>38.57</b>	<b>55.12</b>	<b>1429</b>				
Umariya	Pigeonpea	11.57	3.52	304	ICPL 87, ICPL 87119, TJT 501			ICPL 87119, JKM 7, ICPL 87,
	Urdbean	3.43	0.57	165	LBG 20, T-9, PDU-1	KU 96-3		PU 30, Mash 338
	Moongbean	0.07	0.00	0.00	HUM 1, PDM 139	HUM 1		HUM 6, LGG 460
	Chickpea	8.43	4.83	573	JG 14, JG 16, JG 63	JG 130		JG 322, JG 63
	Lentil	5.97	3.06	514	Desi Masur, JL 3	IPL 81 (Noori)		JL-3, IPL 406
	Peas	2.47	1.13	459	Arkel, Batri, Azad 2	Adarsh, Ambika		Rachna, JM-3
	<b>Total Pulses</b>	<b>31.94</b>	<b>13.12</b>	<b>411</b>				
Indore	Pigeonpea	0.57	0.30	526	ICPL87,ICPL87119,TJT501,			ICPL 87119, BSMR 175, JKM 7
	Urdbean	0.10	0.00	0.00	LBG 20, T-9, PDU 1	KU 96-3		LBG 23, LAM 623, LBG 685
	Moongbean	0.10	0.00	0.00	HUM 12, HUM 1, PDM 139	TJM 3, HUM 1		HUM 6, K-851
	Chickpea	62.73	76.93	1226	JG 218, JAKI 9218, JG 315	KAK 2, JG 14, JG 322		JG 63
	Lentil	0.30	0.11	355	JL 1, Kala Masara	IPL 81 (Noori) JL-3		JLS-3
	Peas	0.80	0.27	333	Arkel, Rachna, JM 3			Pea-1, JM-3, JM-6
	<b>Total Pulses</b>	<b>64.61</b>	<b>76.84</b>	<b>1189</b>				

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District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010- 2015)	Others
Dhar	Pigeonpea	3.48	2.50	718	ICPL 87119, TJT 501	TJT 501		ICPL 87119 (Asha), BSMR 175
	Urdbean	5.80	2.57	443	T-9, PU 35	KU 96-3		RBV-38, LAM 623
	Moongbean	6.20	3.60	581	HUM 1, Pusa Vishal	TJM 3		JM 721, TJM 3, HUM 1, HUM 6
	Chickpea	99.17	112.67	1136	JG 130, JG 322, KAK 2	JG 130, KAK 2, JGK 3, JG 322	RVKG101, RVG 202,	
	Lentil	0.27	0.20	758	JL 1			JL-1, PL-4, RVL-31
	Peas	1.43	0.77	535	Arkel, Rachna			Arkel, Rachna, IPFD 1-10
	<b>Total Pulses</b>	<b>120.01</b>	<b>123.58</b>	<b>1029</b>				
Jhabua	Pigeonpea	2.48	1.35	543	ICPL 87 Laxmi, TJT 501,JKM7			BSMR 736, JA 4, JKM 7
	Urdbean	8.87	4.20	474	Shekhar, T 9, LBG 20	KU 96-3, RBV-38,		LAM 623
	Moongbean	0.43	0.17	385	K 851, JM 721, Pusa Vaisakhi	HUM 1		TARM 2, K-851, JM 721
	Chickpea	19.13	14.30	747	JG 74, JG 14, JG 63, JAKI 9218, JGK 3	JG 130		JG 16, JG 11, JG 218
	Lentil	0.00	0.00	0.00	JL 3, IPL 81	IPL-81, JL-3,		JL-1, L-4076
	Peas	0.20	0.13	667	Arkel, Ambika, Rachna	KPMR 400		Vikas
	<b>Total Pulses</b>	<b>31.95</b>	<b>20.52</b>	<b>642</b>				
Burhanpur	Pigeonpea	3.50	3.51	1003	ICPL-87119 (Asha), ICPL 87			JKM 7, ICPL 87119(Asha)
	Urdbean	1.50	0.53	356	-			-
	Moongbean	0.60	0.20	333	PDM 139, Pusa Vishal	HUM 1		Pusa 105, HUM-12
	Chickpea	3.37	3.57	1059	JG 130, Vishal	KAK-2, JAKI-9218 JG-322		JG-64
	Lentil	0.01	0.01	731		JL-3		L-4076
	Peas	0.00	0.00	0.00	Arkel			Arkel
	<b>Total Pulses</b>	<b>8.98</b>	<b>7.82</b>	<b>870</b>				

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District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Khargone	Pigeonpea	14.19	6.52	459	ICPL-87119, ICPL 87	TJT-501		BSMR-175
	Urdbean	3.23	0.80	247	T-9, PU 35			JU-3
	Moongbean	7.27	1.93	266	HUM-12, HUM-16, K 851	HUM-1		Pant Mung-3
	Chickpea	13.93	12.57	902	JG-130, JG-11, JG-218	JAKI-9218		Vishal
	Lentil	0.04	0.003	87	-			-
	Peas	0.07	0.00	0.00	Arkel, Hema	Ambika, Prakash		Matar-42
	<b>Total Pulses</b>	<b>39.1</b>	<b>15.83</b>	<b>404</b>				
Barwani	Pigeonpea	4.46	2.11	475	ICPL 87119, JKM 7			JA 4, ICPL 87, ICPL 87119 (Asha)
	Urdbean	6.83	4.90	717	PDM-139, T-9			LAM 623, LBG 685
	Moongbean	5.47	3.10	567	Pusa Vaishaki, JM 4	TJM -3, HUM 1		TARM 2
	Chickpea	4.83	5.13	1062	JG 130, JG 315	JG 130, JG 322		JG 11
	Lentil	0.00	0.00	0.00	JL 3, IPL 81 (Noori), L 4076	IPL 81, JL-3		JL-1, RVL 31, HUL-57
	Peas	0.00	0.00	0.00	Malviya Matar- 15, Arkel	KPMR 400		KPMR 522, JM-6
	<b>Total Pulses</b>	<b>24.69</b>	<b>15.83</b>	<b>641</b>				
Khandwa	Pigeonpea	9.18	6.23	678	Asha (ICPL 87119), TJT 501	TJT 501		JKM 7 ICPL 87119 (Asha)
	Urdbean	2.50	0.70	280		KU 96-3		LAM 623, LBG 685
	Moongbean	2.30	0.60	261	PDM 139, HUM 12	HUM 1		TARM 2, K-851, Pusa Vishal
	Chickpea	18.60	23.97	1289	JG 16, JG 315	JG 130, JG 322	RVG 203, RVG 201, PKV 4	
	Lentil	0.74	0.31	414	JL 3	IPL 81 (Noori), JL-3		IPL-406
	Peas	0.73	0.33	455	Arkel, Desi Batri	Adarsh (IPFD 99-25)		Arkel, Malviya Pea-15
	<b>Total Pulses</b>	<b>34.85</b>	<b>32.29</b>	<b>926</b>				

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District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Alirajpur	Pigeonpea	2.84	1.14	401	ICPL 87, Asha	TJT 501		ICPL 87119, ICPL 87119(Asha)
	Urdbean	53.73	22.50	419	LBG 20, Uttra	KU 96-3		LAM 623, LBG 685
	Moongbean	1.43	0.47	326	PDM 139, K-851	HUM 1		TARM 2, K-851, Vishal, JM 721
	Chickpea	9.07	6.50	717	JG 16, JG 130	JG 130		JG 16, JG 218, JG 11
	Lentil	0.00	0.00	0.00		IPL 81, JL 3		PL-639, JL 1
	Peas	0.00	0.03	0.00	Arkel	Prakash (IPFD 1-10), Ambika		
	<b>Total Pulses</b>	<b>75.20</b>	<b>34.44</b>	<b>457</b>				
Ujjain	Pigeonpea	1.35	0.77	569	ICPL 87, Laxmi	TJT 501		ICPL 87119,
	Urdbean	2.13	0.80	375	T 9, LBG 20	KU 96-3		LAM 623, LBG 685,
	Moongbean	0.27	0.10	375	K 851, JM 721, Pusa Baisakhi	HUM 1		Vishal, K-851, JM 721
	Chickpea	176.27	154.30	875	JG 74, JAKI 9218	KAK 2, JG 322,		JG 64, JG 16
	Lentil	0.23	0.10	429				K-75, JLS-3
	Peas	0.63	0.27	421	Arkel, Rachna	Adarsh (IPFD 99-25)		Arkel, Rachna, JM-3
	<b>Total Pulses</b>	<b>180.88</b>	<b>156.33</b>	<b>864</b>				
Mandsaur	Pigeonpea	1.00	0.52	525	ICPL 87, Laxmi	TJT 501		JKM 7, ICPL 87119 (Asha),
	Urdbean	14.23	8.07	567	T 9, LBG 20	KU 96-3		TPU 4, LBG 23, LBG 685
	Moongbean	0.70	0.30	429				K-851, TARM 2, Pusa Vishal
	Chickpea	38.60	39.90	1034	JG 74, JG 14	KAK 2, JGK 1, JG 322	PKV 4	
	Lentil	2.93	1.75	598		IPL 81 (Noori), JL-3		
	Peas	0.33	0.20	600	Arkel, Rachna	Adarsh, Prakash, Ambika		
	<b>Total Pulses</b>	<b>57.79</b>	<b>50.74</b>	<b>878</b>				

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District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						(Within 10 Years 1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Neemuch	Pigeonpea	0.51	0.24	469	ICPL 87, Laxmi	TJT 501		ICPL 87119 (Asha)
	Urdbean	3.80	1.60	421	T 9, LBG 20			TPU 2, LAM 623, LBG 685
	Moongbean	0.10	0.00	0.00				K-851, TARM 2, Vishal
	Chickpea	18.30	20.93	1144	JG 74, JG 14, JAKI 9218	KAK 2, JGK 1, JG 322	PKV 4	JG 412
	Lentil	0.46	0.34	729	JL 3, IPL 81	IPL 81, JL-3		
	Peas	0.10	0.07	667	Arkel, Rachna	Adarsh, Prakash, Ambika		
	<b>Total Pulses</b>	<b>23.27</b>	<b>23.17</b>	<b>995</b>				
Ratlam	Pigeonpea	1.16	0.93	797	TJT-501, JKM-7			ICPL-87119,BSMR-175
	Urdbean	6.53	4.70	719	T-9			JU- 2 & 3, KU-91-2 (Azad Urd 1)
	Moongbean	0.87	0.73	846	HUM-1 & HUM-12	TJM-3, HUM-1		HUM-12
	Chickpea	75.57	56.07	742	Vishal, JAKI 9128	KAK-2, JAKI-9218		JG-218, JG-16
	Lentil	0.84	0.50	599	Desi Moong			ML-337, J-45, IPL-316
	Peas	1.53	1.57	1022	Arkel Matar			Arkel Matar
	<b>Total Pulses</b>	<b>86.49</b>	<b>23.17</b>	<b>267</b>				
Shajapur	Pigeonpea	2.66	1.10	413	ICPL 87, Laxmi	TJT 501		ICPL 87119 (Asha)
	Urdbean	2.33	0.57	243	T 9, LBG 20			TPU 4, LBG 23, LAM 623, LBG 685
	Moongbean	0.53	0.13	250	K 851, JM 721			K-851, TARM 2, Vishal
	Chickpea	141.17	100.83	714	JG 74, JG 14, JG 63, JAKI 9218	KAK 2, JGK 1, JAKI 9218	PKV 4	JG 322
	Lentil	10.82	4.40	407	JL 3, IPL 81	IPL 81		JL-4, PL-639
	Peas	0.60	0.27	444	Arkel, Rachna	Ambika		Azad Pea 3
	<b>Total Pulses</b>	<b>158.11</b>	<b>107.30</b>	<b>678</b>				

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District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Morena	Pigeonpea	7.49	7.88	1052	ICPL 87119, TJT 501	TJT 501		ICPL 87119, JA 4
	Urdbean	0.53	0.27	500	T-9	KU 96-3		LAM 623, LBG 685
	Moongbean	0.47	0.23	500	PDM 139, Pusa Vaishal	TJM -3, HUM 1		JM 721, TARM 2
	Chickpea	7.13	8.41	1179	JG 315, JAKI 9218	JG 130 JAKI 9218,	RVG 201	JG 16, JG 322
	Lentil	0.87	0.51	592		IPL 81 (Noori), JL-3		JL-2, RVL-31
	Peas	0.80	0.57	708	Rachna, Arkel			JM-3, Matar-42, JP 885
	<b>Total Pulses</b>	<b>17.45</b>	<b>17.94</b>	<b>1028</b>				
Aagar**	Pigeonpea	0.00	0.00	0.00	Laxmi, TJT 501	TJT 501		ICPL 87119 (Asha)
	Urdbean	0.00	0.00	0.00	PDU 14, T 9,			TPU 2, LBG 23, LAM 623, LBG 685
	Moongbean	0.00	0.00	0.00	K 851, JM 4, JM 721, Pusa Vaisakhi			K-851, TARM 2, Vishal
	Chickpea	0.00	0.00	0.00	JG 74, JG 14, JG 63, JAKI 9218	KAK 2, JGK 1, JAKI 9218, JG 322	PKV 4	JG 412
	Lentil	0.00	0.00	0.00		IPL 81 (Noori)		JMS-1, JL-4, PL-639
	Peas	0.00	0.00	0.00	Arkel, Ambika, Rachna	Ambika		AP 3, PSM 3
	<b>Total Pulses</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				
Dewas	Pigeonpea	6.21	3.82	615	TJT 501	JKM 189		ICPL 87119, BSMR 175
	Urdbean	0.17	0.03	200	T 9, LBG 20			PDU-1, LAM 623, LBG 685
	Moongbean	0.20	0.03	167		HUM 1		JM 721, K-851
	Chickpea	127.67	139.80	1095	JG 130, JG 218	JG 130, JGK 3, KAK 2, JG 322		JG 218
	Lentil	0.17	0.13	797		JL-3		PL-8, RVL-31, PL-639
	Peas	1.00	0.70	700	Arkel, Ambika			JP 885, JM-54, Arkel
	<b>Total Pulses</b>	<b>135.58</b>	<b>157.06</b>	<b>1158</b>				

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District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Sheopurkal an	Pigeonpea	1.63	1.35	831	ICPL-87119 (Asha)	JKM 189		BSMR 175
	Urdbean	1.70	0.93	549	T-9, Desi	KU 96-3		PDU-1, LAM 623, LBG 685
	Moongbean	0.40	0.23	583		TJM 3, HUM 1		TARM 2
	Chickpea	10.77	15.81	1469	JG-218, JG-322	JG 130, JAKI 9218, JG 322, JG-14	RVG 203	
	Lentil	0.08	0.05	716		JL-3		PL-4, HUL 57
	Peas	0.00	0.00	0.00	Arkil, Azad 2	Adarsh , Prakash		JM-2, Matar-42
	<b>Total Pulses</b>	<b>99.23</b>	<b>91.84</b>	<b>925</b>				
Bhind	Pigeonpea	4.95	3.44	694	Laxmi, UPAS-120	TJT-501		ICPL87119
	Urdbean	1.03	0.30	290	T-9, Shekhar-2			JU-3, JU-86, PU-30
	Moongbean	1.63	1.03	633	HUM-2, PDM-139	TJM-3		JM-721, TM-99
	Chickpea	19.50	25.91	1329	JG-11, JG-315, JG-74	JAKI-9218		JG-16, JG-11
	Lentil	5.83	3.47	596	JLS-1, JL-3	JL-3		JL-1, RVL-31
	Peas	3.10	3.67	1183	Rachna, Arkel			AP-3, JM-6
	<b>Total Pulses</b>	<b>36.05</b>	<b>37.82</b>	<b>1049</b>				
Gwalior	Pigeonpea	0.75	0.30	398	ICPL-87119 (Asha)			CORG-7, ICPL-87119, LRG-41
	Urdbean	5.10	1.70	333	T-9, PU-35			LBG-685, LBG 23
	Moongbean	0.30	0.13	444	TJM-3, PDM-139, Hum-16	HUM 1		K-851, HUM 12
	Chickpea	17.77	26.98	1519	JG-315, JG-63, JG-218, JG-322	JAKI-9218		JG-315, JG218
	Lentil	1.11	0.46	420				HUL-57, Pusa-5
	Peas	2.33	1.17	500	Arkel, Azad 2			Rachna, Arkel, Jawahar Matar 1
	<b>Total Pulses</b>	<b>27.35</b>	<b>30.75</b>	<b>1124</b>				

Contd....

District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Shivpuri	Pigeonpea	1.32	0.45	339	ICPL 87119 (Asha), Laxmi	TJT 501		JKM 7
	Urdbean	20.64	6.90	334	T-9, PU-35	KU 96-3, RBU-38		PDU-1, LBG 23
	Moongbean	4.77	1.60	336	TJM 3, HUM-12	TJM -3, HUM 1		TARM 2
	Chickpea	65.60	80.20	1223	JG 130, JG 322, JAKI 9218	JG 130, JG 322, JAKI 9218	RVG 202	
	Lentil	5.13	1.83	356	Malika Masur, K-75			PL 639, JL 1, K-75, RVL 31
	Peas	1.77	0.87	491	Arkel, Azad 1	Adarsh (IPFD 99-25)		JP 885
	<b>Total Pulses</b>	<b>99.23</b>	<b>91.84</b>	<b>925</b>				
Guna	Pigeonpea	1.58	0.70	444	ICPL 87119 (Asha), Laxmi	TJT 501, JKM-189		Asha, RVICPH 2671
	Urdbean	4.23	2.47	583	T-9, PU-35	KU 96-3, RBU-38		PDU-1, LBG 685
	Moongbean	0.60	0.30	500	K -851	TJM-3, HUM-1	TJM-3	JM-721, TARM -2
	Chickpea	80.57	106.45	1321	JG 130, JG 315	JG 130, JAKI 9218, JG 322	RVG 202	
	Lentil	1.19	0.88	735	IPL 81 (Noori)	JL 3		JL 4, K-75, PI-8, L-4076
	Peas	0.20	0.17	833	Adarsh, Arkel	Adarsh,		Arkel, JP 885
	<b>Total Pulses</b>	<b>88.81</b>	<b>111.14</b>	<b>1251</b>				
Ashoknagar	Pigeonpea	0.90	0.45	506	TJT 501, ICPL 87119 (Asha)	TJT 501		RVICPH 2671, RVA 28, JKM 7,
	Urdbean	52.04	17.57	338	T-9, PU-35	KU 96-3, RBU-38		PDU-1
	Moongbean	1.07	0.47	438	PDM 139, HUM-12	TJM 3, HUM 1	TJM 3	JM 721, TARM 2
	Chickpea	115.77	136.45	1179	JG 130, JG 315	JAKI 9218, JG 322	RVG 202	
	Lentil	22.12	21.79	985	JL 3, PL 8	IPL 81		K-75, IPL-406, L-4076
	Peas	1.83	1.13	618	Arkel, Azad 2 & 3	KPMR 400, Prakash		JP-885, Azad 2
	<b>Total Pulses</b>	<b>194.23</b>	<b>178.28</b>	<b>917</b>				

Contd....

District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Datia	Pigeonpea	0.97	0.44	453	-	-		-
	Urdbean	8.07	2.13	264	T-9, LBG 20			JU-2, PDU-1, PU-30, PU-19
	Moongbean	1.37	0.47	341	PDM-139	TJM-3		PDM-139,
	Chickpea	21.45	27.28	1272	JG-315	JG-130		JG-11, JG-218
	Lentil	3.50	2.34	668	Mallika (K-75)	JL-3		Mallika, IPL-316
	Peas	23.97	38.93	1624	Rachna	Prakash		Vikas (IPFD 99-13), JM-6
	<b>Total Pulses</b>	<b>59.37</b>	<b>71.62</b>	<b>1206</b>				
Bhopal	Pigeonpea	2.43	2.09	860	ICPL-87119, Prabhat			ICPL-87119, ICPL-87119, ICPL-151
	Urdbean	0.30	0.10	333	JU-2, JU-3, Pant U-30	KU-96-3		VB-3, PU-30, LBG-20
	Moongbean	0.30	0.10	333	PDM-11, HUM-12	TJM-3		TMB 37, JM-721, HUM-1
	Chickpea	32.53	41.27	1268	JG-130,11,16&135, Ujjain-21	JG-14, JG-6, JG-226		Vishal, ICCV-2, JG-6, JG-63
	Lentil	2.53	2.89	1141	JL-2, JL-3	IPL-81 (Noori), JL-3		Lens-4076
	Peas	0.97	0.43	448	Arkel, Rachna	KPMR-400, Adarsh (IPFD 99-25)		Arkel
	<b>Total Pulses</b>	<b>39.30</b>	<b>47.15</b>	<b>1199</b>				
Sehore						JKM 189, TJT 501		
	Urdbean	0.47	0.17	357	JU 3, Uttra			JU 3, Uttra
	Moongbean	0.27	0.03	125	HUM 12, HUM 16			HUM 12, HUM 16, PDM 139
	Chickpea	104.98	104.38	994	JG 315, JG 11, JG 130	JG 130		JG 16, JG 315, JG 11
	Lentil	2.90	2.24	773	JL 1, JL 3	JL 3		JL 1, RVL 31, HUL 57
	Peas	1.23	0.57	459	Arkel, Rachna			Arkel, Rachna, JM-3
	<b>Total Pulses</b>	<b>124.16</b>	<b>113.34</b>	<b>912</b>				

Contd....

District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Rajgarh	Pigeonpea	2.58	1.57	609	ICPL-87119, ICPL-85063	TJT-501, JKM-189		JA-4, ICPL-87119, ICPL-85063,
	Urdbean	2.90	1.23	425	T-9, JU-2, JU-3			JU-2, JU-3, TPU-4, JU-88
	Moongbean	0.83	0.33	400	HUM-12 &16, HUM-1	HUM-1		HUM-12 &16, JM-1
	Chickpea	109.75	131.35	1197	JG-322,11, 16,11, 130	JGK-1		JG-16, Vijay Jg-11,
	Lentil	9.60	7.13	743	JL-1, JL-3, Desi Masur	JL-3		JL-1,K-75, IVL-31
	Peas	1.73	1.27	731	Arkel, KPMR-400			Arkel, Azad Pea 3, Pragati, JM-6
	<b>Total Pulses</b>	<b>127.39</b>	<b>142.88</b>	<b>1121</b>				
Raisen	Pigeonpea	31.48	14.23	452	TJT-501,ICPL-87119	TJT 5014		ICPL 87119 (Asha), JA-4
	Urdbean	2.93	0.60	205	JU-2, JU-3, PDU-1, Shekhar 2	KU 96-3		VB 3, PU 30
	Moongbean	1.03	0.23	226	PDM-139, HUM-1	HUM 1		JM 71, Pusa Vishal
	Chickpea	128.05	139.91	1093	JG-16, JG-63, JG-315	JG130, JGK 3, KAK 2, JG 322,	RVG 202,	Vishal,
	Lentil	19.33	11.71	606	JLS-1, JLS-3, Mallika	JL 3		K-75, L-4076
	Peas	7.90	7.03	890	Arkel, Azad-1, Prakash,			Arkil, Malviya Pea 15
	<b>Total Pulses</b>	<b>197.49</b>	<b>180.95</b>	<b>916</b>				
Vidisha	Pigeonpea	3.18	1.85	582	TJT-501,ICPL-87119, Upas-120	TJT-501	TJT-501	ICPL-87119, JA-4
	Urdbean	50.27	27.20	541	PDU-1, Shekhar			JU-2, JU-3, PDU-1
	Moongbean	0.97	0.37	379	PDM-139, HUM-1	TJM-3, HUM-1		PDM-139
	Chickpea	174.85	169.88	972	JG-63, JG-315	JG-226		JG-16 JG-63,
	Lentil	43.15	23.11	536	JLS-1, JLS-3	IPL-81, JLS-3		JLS-1
	Peas	5.07	3.00	592	Arkel, Azad-1	KMPR-400		Arkel, Azad P-1
	<b>Total Pulses</b>	<b>284.82</b>	<b>230.76</b>	<b>810</b>				

Contd....

District	Crop	Area (000 ha)	Prod. (000 Tonnes)	Yield (Kg/ha)	Prevailing varieties	Recommended Pulse Varieties		
						Within 10 Years (1999 to 2009)	(>10 Years to 15 years) (2010-2015)	Others
Hosangabad	Pigeonpea	6.61	5.51	834	TJT 501, ICPL 87119	TJT-501		ICPL 87119, ICPL 88039, JA 4
	Urdbean	2.90	1.23	425		KU-96-3		PU 30, MASH 338
	Moongbean	0.10	0.00	0.00	PDM 139, HUM 12	HUM 1		JM 721, TARM 1, HUM 6, LGG 460
	Chickpea	27.81	35.42	1273	JG 11, JAKI 9218, JG 315	JG-130, JG-322	RVG 202, RVG 203	JG 63
	Lentil	0.44	0.21	480		JL-3		JL1, K-75, IPL 406, RVL 31
	Peas	0.67	0.30	450	Arkel. Rachna	KPMR-400		IM 9101 (Subhra), Rachna
	<b>Total Pulses</b>	<b>36.46</b>	<b>41.70</b>	<b>1143</b>				
Harda	Pigeonpea	0.65	0.67	1034		TJT-501		ICPL 87119, JA-4
	Urdbean	0.00	0.00	0.00	T-9, Ultra, IPU-94-1			JU-2, JU-3
	Moongbean	0.00	0.00	0.00	HUM-1, HUM-12	HUM-1		HUM-12, J-45
	Chickpea	23.45	32.78	1398	JG 11, JG 16, JG 130, JAKI 9218	KAK-2, JAKI-9218 JG-322		
	Lentil	0.08	0.04	472	JL 3, Mallika, DPL 62, IPL 81	IPL-81, JL-3		L 4076
	Peas	0.33	0.17	500	Arkel, Azad-1	KMPR-400		Vikas
	<b>Total Pulses</b>	<b>24.54</b>	<b>33.65</b>	<b>1371</b>				
Betul	Pigeonpea	25.82	18.23	706	TJT-501, KP-87119	TJT-501		Pusa -991, JKM-7
	Urdbean	5.19	1.70	327	TU-9, T-9, T-44			JU-1, JU-2
	Moongbean	1.13	0.33	294	HUM-12, HUM-2	J-45, TM-37		J-45, TM-37
	Chickpea	39.68	41.31	1041	JG-11, JG-74, JAKI-9218	JG-130		JG-11
	Lentil	2.47	1.43	580	JL-1, JL-3	JL-1, JL-3		JL-1
	Peas	3.47	1.90	548	Arkel, Ambika			Vikas (IPFD-99-143)
	<b>Total Pulses</b>	<b>78.23</b>	<b>65.08</b>	<b>831</b>				
Madhya Pradesh	<b>Pigeon pea</b>	<b>678</b>	<b>486.21</b>	<b>329.55</b>				
	<b>Urdbean</b>	<b>603.47</b>	<b>212.70</b>	<b>352</b>				
	<b>Moongbean</b>	<b>81.03</b>	<b>29.50</b>	<b>364</b>				
	<b>Chickpea</b>	<b>2944.80</b>	<b>2906.90</b>	<b>987</b>				
	<b>Lentil</b>	<b>542.73</b>	<b>283.64</b>	<b>523</b>				
	<b>Peas</b>	<b>250.53</b>	<b>169.23</b>	<b>675</b>				
	<b>Total Pulses</b>	<b>4908.77</b>	<b>3931.52</b>	<b>3579</b>				

Note- \*Area, Production and yield -Average from 2011-12 to 2013-14 \*\*- Newly carved district

**COMMODITY-WISE FINANCIAL TARGETS & ACHIEVEMENT DURING XI<sup>TH</sup> AND XII<sup>TH</sup> PLAN OF M.P. STATE & VISITED DISTRICT  
Madhya Pradesh**

(Rs. in lakh)

Comp.	2007-08			2008-09			2009-10			2010-11			2011-12			XI <sup>th</sup> Plan Total		
	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.
Pulses	1694.0	1694.0	288.0	5083.4	2404.8	2213.2	5397.0	5055.0	3990.1	15886.5	13547.4	11690.1	11781.0	10651.3	12428.1	39841.9	33352.4	30609.5
Wheat	2647.5	2612.5	609.4	4285.5	2617.8	2461.2	5642.1	4702.6	3763.8	4458.3	3738.8	3047.2	4353.4	3174.3	3764.7	21386.8	16846.0	13646.2
Rice				2089.4	1415.7	570.0	1458.6	845.7	690.3	1131.8	945.3	700.6	1061.5	856.6	988.2	5741.3	4063.3	2949.1
<b>Total</b>	<b>4341.5</b>	<b>4306.5</b>	<b>897.5</b>	<b>11458.3</b>	<b>6438.3</b>	<b>5244.3</b>	<b>12497.7</b>	<b>10603.2</b>	<b>8444.2</b>	<b>21476.7</b>	<b>18231.5</b>	<b>15437.9</b>	<b>17195.9</b>	<b>14682.3</b>	<b>17180.9</b>	<b>66970.0</b>	<b>54261.7</b>	<b>47204.8</b>

(Rs. in lakh)

Comp.	2012-13			2013-14			2014-15			2015-16			2016-17			XII <sup>th</sup> Plan Total		
	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.
Pulses	21050.1	17385.6	17259.3	31177.4	30508.6	27649.2	23614.4	20828.6	13434.7	28230.2	11344.1	16419.2	48049.9	17818.3	5346.8	152121.9	97885.1	80109.1
Wheat	6313.8	6126.9	5643.3	6606.0	4748.1	4559.5	6924.5	4030.7	3309.3	4010.7	1203.3	1652.6	3879.8	192.5	574.3	27734.6	16301.4	15739.0
Rice	1341.1	1202.2	1230.9	1426.2	1350.4	1248.7	1926.2	1181.0	608.2	1415.9	479.3	486.3	2439.0	309.1	361.9	8548.4	4521.9	3936.0
CC							1536.0	1152.0	549.7	1742.3	342.3	365.2	1743.0	182.1	217.5	5021.3	1676.3	1132.4
Sugarcane							20.8	15.6	11.0	31.5	9.0	13.3	33.0	6.1	6.2	85.3	30.7	30.5
Cotton							70.0	52.5	5.6	0.0	32.5	0.0	119.0	0.0	0.0	189.1	85.0	5.6
<b>Total</b>	<b>28704.9</b>	<b>24714.7</b>	<b>24133.4</b>	<b>39209.6</b>	<b>36607.1</b>	<b>33457.5</b>	<b>34091.8</b>	<b>27260.4</b>	<b>17918.5</b>	<b>35430.5</b>	<b>13410.4</b>	<b>18936.6</b>	<b>56263.7</b>	<b>18508.0</b>	<b>6506.6</b>	<b>193700.5</b>	<b>120500.5</b>	<b>100952.5</b>



**District-Chhatarpur**

(Rs. in lakh)

Comp.	2007-08			2008-09			2009-10			2010-11			2011-12			XI <sup>th</sup> Plan Total		
	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.
Pulses	65.77	33.30	33.30	183.37	159.70	159.70	292.78	281.14	281.14	128.44	681.71	190.00	231.10	634.23	168.95	901.46	1790.08	833.09
Wheat	75.85	34.84	34.84	133.00	114.70	114.70	197.30	188.27	181.00	134.58	116.16	112.23	137.93	116.34	113.76	678.66	570.31	556.53
Rice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sugarcane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cotton	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>141.62</b>	<b>68.14</b>	<b>68.14</b>	<b>316.37</b>	<b>274.40</b>	<b>274.40</b>	<b>490.08</b>	<b>469.41</b>	<b>462.14</b>	<b>263.02</b>	<b>797.87</b>	<b>302.23</b>	<b>369.03</b>	<b>750.57</b>	<b>282.71</b>	<b>1580.12</b>	<b>2360.39</b>	<b>1389.62</b>

(Rs. in lakh)

Comp.	2012-13			2013-14			2014-15			2015-16			2016-17			XII <sup>th</sup> Plan Total		
	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.
Pulses	231.50	313.42	313.42	782.05	1178.09	444.19	457.43	626.55	295.84	569.56	299.42	180.21	1131.52	224.99	224.99	3172.06	2642.47	1458.64
Wheat	283.26	258.62	246.64	306.98	228.79	226.46	542.45	334.22	294.45	273.09	275.62	76.71	199.82	98.31	82.35	1605.60	1195.56	926.61
Rice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sugarcane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cotton	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>514.76</b>	<b>572.04</b>	<b>560.06</b>	<b>1089.03</b>	<b>1406.88</b>	<b>670.65</b>	<b>999.88</b>	<b>960.77</b>	<b>590.29</b>	<b>842.65</b>	<b>575.04</b>	<b>256.92</b>	<b>1331.34</b>	<b>323.30</b>	<b>307.34</b>	<b>4777.66</b>	<b>3838.03</b>	<b>2385.25</b>

## District-Panna

(Rs. in lakh)

Comp.	2007-08			2008-09			2009-10			2010-11			2011-12			XI <sup>th</sup> Plan Total		
	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.
Pulses	36.00	36.00	31.57	201.32	201.32	194.92	270.00	270.00	277.07	232.00	232.00	255.22	290.00	290.00	2900.00	1029.32	1029.32	3658.78
Wheat	5.51	5.51	8.48	118.60	118.60	82.13	130.00	130.00	123.85	63.00	63.00	58.22	125.00	125.00	132.96	442.11	442.11	405.63
Rice	0.00	0.00	0.00	139.89	139.89	88.84	45.00	45.00	126.02	80.00	80.00	67.08	156.00	156.00	157.08	420.89	420.89	439.02
<b>Total</b>	<b>41.51</b>	<b>41.51</b>	<b>40.05</b>	<b>459.81</b>	<b>459.81</b>	<b>365.88</b>	<b>445.00</b>	<b>445.00</b>	<b>526.94</b>	<b>375.00</b>	<b>375.00</b>	<b>380.52</b>	<b>571.00</b>	<b>571.00</b>	<b>3190.04</b>	<b>1892.32</b>	<b>1892.32</b>	<b>4503.43</b>

(Rs. in lakh)

Comp.	2012-13			2013-14			2014-15			2015-16			2016-17			XII <sup>th</sup> Plan Total		
	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.	Alloc.	Rel.	Exp.
Pulses	268.69	268.69	213.53	263.50	263.50	281.82	415.02	415.02	167.95	206.20	206.20	120.08	457.48	457.48	55.43	1610.89	1610.89	838.80
Wheat	176.25	176.25	103.55	120.23	120.23	189.42	205.95	205.95	49.91	131.65	131.65	70.29	41.71	41.71	27.31	675.79	675.79	440.48
Rice	125.00	125.00	124.31	144.67	144.67	126.85	220.50	220.50	16.08	137.12	137.12	36.52	86.46	86.46	15.85	713.75	713.75	319.61
<b>Total</b>	<b>569.94</b>	<b>569.94</b>	<b>441.39</b>	<b>528.40</b>	<b>528.40</b>	<b>598.09</b>	<b>841.47</b>	<b>841.47</b>	<b>233.93</b>	<b>474.97</b>	<b>474.97</b>	<b>226.89</b>	<b>585.65</b>	<b>585.65</b>	<b>98.59</b>	<b>3000.43</b>	<b>3000.43</b>	<b>1598.89</b>

**BASIC INFORMATION: VISITED DISTRICTS OF SAGAR DIVISION OF M.P.**

<b>Particulars</b>	<b>Sagar</b>	<b>Chhatarpur</b>	<b>Tikamgarh</b>	<b>Panna</b>	<b>M.P.</b>
Population ( Crores)	2.37 (Male-1.25) (Female-1.12)	1.76 (Male-9.36) (Female-8.76)	1.44 (Male-7.60) (Female-6.84)	1.01 (Male-5.33) (Female-4.83)	7.263 (Male-3.761 Female-3.501)
Block/ Janpad Panchayat	11	08	06	05	313 (89 Tribal Block)
Annual Rainfall	960.9 mm	855.5 mm	939.4 mm	1065 mm	1200 mm
<b>Land Use Pattern 000 ha</b>					
Geographical Area	1022.80	863.00	504.00	702.90	30755.80
Cultivable area	537.40	469.30	292.20	270.20	15872(51.60%)
Forest area	298 (29.14 %)	214.00 (25 %)	68.60 (14.0 %)	299.70 (43%)	8588(27.92%)
Land under non agricultural use	53.00	44.20	23.60	42.00	1991.80(6.48%)
Permanent pastures	85.40	63.30	24.50	8.30	1348.40(4.38%)
Cultivable wasteland	10.30	70.30	22.80	60.00	867(2.82%)
Barren and uncultivable land	14.60	1.60	72.10	22.70	1405.5(4.57%)
Current fallows	9.50	105.00	60.60	21.70	768.9(2.50%)
<b>Agricultural land use 000 ha</b>					
Net sown area	537.40	319.90	208.80	234.10	15455
Double Cropped Area	198.90	84.80	92.20	34.80	7778
Gross cropped area	736.30	404.70	301.00	268.90	23233
Cropping Intensity	137%	127 %	144%	115%	150%
<b>Irrigation 000 ha</b>					
Net irrigated area	241.00	157.00	110.30	78.50	8550
Gross irrigated area	241.10	157.00	145.20	78.60	8965
Rainfed area	296.40	162.90	98.50	155.60	60%
<b>Sources of Irrigation Area 000 ha</b>					
Canals	8.20 (3.40%)	7.90 (5.06%)	6.70 (4.60%)	6.50 (8.26 %)	1090.9 (17%)
Tanks	2.60 (1.07%)	3.20 (2.05%)	6.20 (4.20%)	3.80 (4.83 %)	148.9(2.34%)
Open wells	117 (47.90%)	120.70 (77.20%)	114.4 (78.90%)	17.30 (21.97 %)	2402.6(37.75%)
Bore wells	37 (15.20%)	3.10 (1.90%)	9.60 (6.60%)	5.20 (6.60 %)	1793.2(28.17%)
Others	76.30 (31.28%)	22.10 (14.10%)	8.30 (5.70%)	45.80 (58.17 %)	-
Total Irrigated Area	241.10	157.00	145.20	78.60	6364.6
<b>Major crops</b>					
<b>Kharif</b>	Soybean, Maize, Sorghum	Maize., Urd, Cotton, Soybean Paddy	Soybean, , Maize.	Soybean, Cotton, Maize, Jowar,	Paddy, Pigeonpea, Soyabean, Jowar, Blackgram, Mazie, moongbean
<b>Rabi</b>	Wheat, Chickpea,	Wheat, Chickpea,	Chickpea, Wheat, Mustard.	Wheat , Gram	Wheat, Chickpea, Lentil, Mustard.

(Source: DAC & FW (2014) & SDA, Govt. of MP.

**NFSM – PULSES SEED MINIKIT ALLOCATION RABI/ SUMMER: (2016-17)**

S. No.	Districts	Block	NSC Gram-JG-14	NSC Gram-JG-6	NSC Gram-JG-63	NSC Urd-PU-31	HIL Urd-PU 31	NAFED Mung-TJM-3	TOTAL
1	Sagar	11	4	22	846	35	176	600	1683
2	Tikamgarh	6	2	12	461	19	96	360	950
3	Chhatarpur	8	3	16	615	26	128	500	1288
4	Panna	5	2	10	384	16	80	350	842
5	Damoh	7	3	14	538	22	112	400	1089
	<b>Division Total</b>	<b>37</b>	<b>14</b>	<b>74</b>	<b>2844</b>	<b>118</b>	<b>592</b>	<b>2210</b>	<b>5852</b>
	<b>State</b>	<b>313</b>	<b>125</b>	<b>625</b>	<b>24063</b>	<b>1000</b>	<b>5000</b>	<b>25000</b>	<b>55813</b>

**NMOOP –OILSEED SEED MINIKIT ALLOCATION RABI YEAR 2016-17**

S. No.	Districts	Block	NSC Mustard – RGN-73
1	Sagar	11	1000
2	Tikamgarh	6	3500
3	Chhatarpur	8	-
4	Panna	5	1000
5	Damoh	7	-
	<b>Division Total</b>	<b>37</b>	<b>5500</b>
	<b>State</b>	<b>313</b>	<b>70000</b>

**CLUSTER FRONTLINE DEMONSTRATION OF RABI OILSEED 2016-17**

Name of KVK	Crop	Area allotted (ha)	Demo allotted	Budget allotted (Rs.)	Area Conducted (Ha)	Conducted Demo
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Sagar	Chickpea	30	75	225000	30	75
	Lentil	30	75	225000	30	75
Tikamgarh	Chickpea	20	50	150000	20	50
Chhatarpur	Chickpea	<b>20</b>	<b>50</b>			<b>Not mention in progress report</b>
Panna	Chickpea	30	75	225000	30	56
	Lentil	30	75	225000	30	62
Damoh	Chickpea	20	50	150000	20	50
<b>Division Total</b>	<b>Chickpea</b>	<b>120</b>	<b>300</b>			
	<b>Lentil</b>	<b>60</b>	<b>150</b>			
<b>State Total</b>	<b>Chickpea</b>	<b>960</b>	<b>2400</b>	<b>7200000</b>	<b>950</b>	<b>2322</b>
	<b>Lentil</b>	<b>280</b>	<b>700</b>	<b>2100000</b>	<b>280</b>	<b>687</b>

### CLUSTER FRONTLINE DEMONSTRATION OF RABI OILSEED 2016-17

Name of KVK	Crop	Area allotted (ha)	Demo allotted	Budget (Rs.)	Area Conducted (Ha)	Conducted Demo
Chhattarpur	Mustard	30	75	90000	0	0
Panna	Mustard	0	0	0	30	58
Tikamgarh	Mustard	30	75	90000	30	75
Division Total		60	150		60	133
<b>State total of Mustard</b>		<b>480</b>	<b>1200</b>	<b>1440000</b>	<b>520</b>	<b>1195</b>
<b>State total of Linseed</b>		<b>230</b>	<b>575</b>	<b>690000</b>	<b>230</b>	<b>650</b>
<b>State total of Oilseed</b>		<b>710</b>	<b>1775</b>	<b>2130000</b>	<b>750</b>	<b>1845</b>

#### Breeder Seed Production Programme

Allocation of breeder seed production during Rabi 2016-17 for the indent of 2017-18

S. No.	Centre	Crop	Variey	Notification years	DAC Indent (q)	Allocation (q)	Indenter (q)
1	JNKVV, Jabalpur	Lentil	JL 1	1991	10.00	14.00	MP (10.00)
			JL 3	2000	25.00	28.00	MP (25.00)

			RVL 31	2014	25.00	30.00	CG (20.00), MP (5.00)	
2.		Filedpea	JP-885		1.00	1.50	SAI(1.00)	
<b>Number of demonstration to be allotted to each AICRP centres during Rabi 2016-17</b>								
	<b>ACRIP centre</b>	<b>No. of FLDs</b>	<b>Components</b>					
1	JNKVV, Jabalpur	10+5	FP, IPM					
2	ARS, Indore	5+4+5	FP,IPM,ELSK					
3	ARS,Sehore	10+5+5	FP,IPM,ELSK					
4	IGKVV, Raipur	5+5	FP,RF					
5	IIPR,RS,Bhopal	5	FP					
<b>Number of demonstration to be allotted under TSP (Area in acre) during Rabi 2016-17</b>								
	<b>Centre</b>	<b>No. of FLDs</b>	<b>Components</b>					
1	ARS, Indore	50	FP					
2	ARS,Sehore	50	FP					
3	IGKVV, Raipur	50	FP					
4	KVK, Sehore	50	FP					
5	SGCOARS,IGKVV, Jagdapur (Baster)	50	FP					

S. No.	Centre	Crop	Variey	Notification years	DAC Indent (q)	Allocation (q)	Indenter (q)	
1	IGKVV, Raipur	Lathyrus	Prateek	2011	79.00	85.00	BI(2.00),(CG(75.00)	
2	IGKVV, Raipur	Fieldpea	Paras		22.00	25.00	CG (22.00)	
					5.00	7.00	CG (5.00)	

FP- Full Package technology, IPM- Full Package with IPM technology, ELSK- Full Package for Extra Large Seeded Kabuli, RF- Full Package in Rice Fallow

**Centre –wise breeder seed production targets of various pulses through SAUs/ICAR Institutes approved is as under**

State	Name of the centre	District	Crop/ Variety	Present status of breeder seed production	Additional quantity of breeder seed to be produced			Total Additional breeder seed	Total quantity to be produced 2018-19 onwards	Total finan. budget (Rs. In lakh)	Details of nodal officer	
					2016 -17	2017 -18	2018- 19				Name	Contact No. & E mail
MP	JNKVV, Jabalpur	Jabalpur	Chickpea	1336.32	600	30	50	680	2016.32	<b>190.00</b>	Dr. D.K. Mishra	9424705597 <a href="mailto:Seed.jnkvv@gmail.com">Seed.jnkvv@gmail.com</a> <a href="mailto:Dkjkvv08@redffmaill.com">Dkjkvv08@redffmaill.com</a>
			Mungbean	43.66	50	20	20	90	133.32			
			Urdbean	48.7	50	15	15	80	128.7			
			Pigeonpea	250	100	20	30	150	400			

			Fieldpea	165.35	100	15	25	140	305.35			
			Lentil	51.31	50	20	15	85	136.31			
			<b>Total</b>	<b>1895.34</b>	<b>950</b>	<b>120</b>	<b>155</b>	<b>1225</b>	<b>3120</b>			
RVSKVV, Gwalior	Gwalior		Chickpea	1528	500	15	25	540	2068	<b>92.00</b>	Dr. R. V. Singh	9461046553 <a href="mailto:adr.seed@sknau.ac.in">adr.seed@sknau.ac.in</a>
			Mungbean	230	100	15	22	137	367			
			Urdbean	30	20	20	28	68	98			
			Pigeonpea	25	25	20	25	70	95			
			Lentil	13	20	25	27	72	85			
			<b>Total</b>	<b>1826</b>	<b>665</b>	<b>95</b>	<b>127</b>	<b>887</b>	<b>2713</b>			

### Seed Hub Programme 2016-17 to 2018-19

#### KVK: quality seed production and Budget allocation of pulses by each seed- hub during 2016-17 to 2018-19

State	Name of the centre	District	Crop/ Variety	Quantity of seed production (q)			Total	Budget allocation (Rs..in Lakhs)			Details of nodal officer	
				2016-17	2017-18	2018-19		Seed processing & storage infrastructure fund * (2016-17)	2016-17	2017-18	Name	Contact No. & E mail
Madhya Pradesh	KVK, Betul (JNKVV,Jabalpur)	Betul	Pigeonpea	200	300	400	2450	50	45	55	Dr. Vijay Kumar Verma	9425637718 <a href="mailto:kvkbetul@rediffmail.com">kvkbetul@rediffmail.com</a> , <a href="mailto:kvkbetul@gmail.com">kvkbetul@gmail.com</a>
			Fieldpea	250	300	300						
			Lentil	150	250	300						
	KVK, Narsinghpur	Narsinghpur	Pigeonpea	250	300	550	2100	50	40	60	Dr. Ashutosh Sharma	9425158722 kvknarsinghpur@rediffmail.com
			Chickpea	250	300	450						
	KVK,Damoh	Damoh	Chickpea	300	350	400	2300	50	38	62	Dr. R.K.Dwivedi,	9993532337

	(JNKVV, Jabalpur)		Urdbean	100	150	300							Dr. Sanjay Vaishampyan	<a href="mailto:kvkdamoh@rediffmail.com">kvkdamoh@rediffmail.com</a>						
			Lentil	150	250	300														
	KVK, Harda (JNKVV, Jabalpur)	Harda	Pigeonpea	200	250	300									2350	50	40	60	Dr.R.C.Sharma	9009801134 <a href="mailto:kvkharda@rediffmail.com">kvkharda@rediffmail.com</a>
			Mungbean	100	150	200														
			Chickpea	250	400	500														
	KVK-Dewas (RVSKV, Gwalior)	Dewas	Mungbean	100	150	200									2300	50	40	60	Dr. Nishith Gupta,	9425256326
			Pigeonpea	200	250	250														
			Chickpea	200	200	250													Dr. R. P. Sharma	<a href="mailto:kvkdewas@rediffmail.com">kvkdewas@rediffmail.com</a>
			Lentil	100	100	300														
	KVK, Ujjain (RVSKV, Gwalior)	Ujjain	Urdbean	100	150	200									2500	50	40	60	Dr.D.S.Tomar,	9425935337,
			Mungbean	100	100	150														
			Pigeonpea	100	150	200														
			Chickpea	250	300	400													Dr.S.K.Kaushik (Co-Nod)	9977050608 (Co-Nod)
			Lentil	100	100	100														
	KVK, Datia RVSKVV,Gwalior	Datia	Chickpea	100	100	100									2500	50	40	60		
			Lentil	100	200	200														
			Fieldpea	300	350	350														
			Pigeonpea		150	150														
			Mungbean		100	100														
Urdbean		100	100																	

Madhya Pradesh	KVK, Morena (RVSKVV, Gwalior)	Morena	Chickpea	100	200	200	2500	50	40	60		
			Lentil		50	50						
			Fieldpea	200	200	200						
			Pigeonpea		150	150						
			Mungbean	200	300	300						
			Urdbean		100	100						
	KVK, Tikamgarh (JNKVV, Jabalpur)	Tikamgarh	Chickpea	100	200	200	2500	50	40	60		
			Lentil	200	300	300						
			Fieldpea	150	200	200						
			Pigeonpea		100	100						
			Mungbean	50	100	100						
Urdbean		100	100									
<b>Total</b>				<b>4950</b>	<b>7500</b>	<b>9050</b>	<b>21500</b>	<b>450</b>	<b>363</b>	<b>537</b>		

**ICAR : quality seed production and Budget allocation of pulses by each seed- hub during 2016-17 to 2018-19**



State	Name of the centre	District	Crop/ Variety	Quantity of Seed Production (q)			Total	Budget allocation (Rs..in Lakhs)			Details of nodal officer	
				2016-17	2017-18	2018-19		Seed processing & storage infrastructure fund * (2016-17)	Revolving Fund		Name	Contact No. & E mail
									2016-17	2017-18		
Madhya Pradesh	ICAR- IIPR Regional Sta. Funda, Bhopal	Bhopal	Urdbean	100	100	150	2500	50	60	40	Dr. P.K. Katiyar	900568816 <a href="mailto:goldikatiyar@yahoo.com">goldikatiyar@yahoo.com</a>
			Mungbean	100	100	150						
			Pigeonpea	200	250	300						
			Chickpea	150	200	200						
			Lentil	100	200	200						
<b>Total</b>				<b>650</b>	<b>850</b>	<b>1000</b>	<b>2500</b>					

#### AICRP: quality seed production and Budget allocation of pulses by each seed- hub during 2016-17 to 2018-19

State	Name of the centre	District	Crop/ Variety	Quantity of seed production (q)			Total	Budget allocation (Rs.in Lakhs)			Details of nodal officer	
				2016-17	2017-18	2018-19		Seed processing & storage infrastructure fund * (2016-17)	Revolving Fund		Name	Contact No. & E mail
									2016-17	2017-18		
Madhya Pradesh	AICRP(Pulses) RVSKV, Gwalior	Gwalior	Urdbean	100	150	150	2600	50	44	56	Dr. H.S. Yadav	9425650289 <a href="mailto:hs_yadav2003@yahoo.com">hs_yadav2003@yahoo.com</a> , <a href="mailto:hsyadava.rvskvv@gmail.com">hsyadava.rvskvv@gmail.com</a>
			Mungbean	100	100	150						
			Pigeonpea	250	250	300						
			Chickpea	200	250	300						
			Lentil	100	100	100						
	AICRP(Pulses) RAK, CoA, Sehore	Sehore	Mungbean	100	150	200	2300	50	40	60	Dr. H.S. Yadav	9425650289 <a href="mailto:myasin23@gmail.com">myasin23@gmail.com</a> , <a href="mailto:hs_yadav2003@yahoo.com">hs_yadav2003@yahoo.com</a> , <a href="mailto:hsyadava.rvskvv@gmail.com">hsyadava.rvskvv@gmail.com</a>
			Pigeonpea	200	250	250						
			Chickpea	200	200	250						
			Lentil	100	100	300						
	AICRP(Pulses)	Jabalpur	Urdbean	100	150	150	2700	50	40	60	Dr. P.K.Mishra	9424705597

	JNKVV, Jabalpur		Mungbean	150	200	200						<a href="mailto:seeds.jnkvv@gmail.com">seeds.jnkvv@gmail.com</a>
			Pigeonpea	200	200	200						
			Chickpea	150	150	200						
			Lentil	100	100	100						
			Fieldpea	100	100	150						
	AICRP(Pulses) ARS, Sagar	Sagar	Lentil	100	150	150	<b>2600</b>	50	44.00	56	Shri Vinod Kumar	9584952255 <a href="mailto:Vinod.asco.ujn@gmail.com">Vinod.asco.ujn@gmail.com</a>
			Urdbean	100	100	150						
			Fieldpea	250	250	300						
			Chickpea	200	250	300						
			Pigeonpea	100	100	100						

State	Name of the centre	District	Crop/ Variety	Quantity of seed production (q)			Total	Budget allocation (Rs.in Lakhs)			Details of nodal officer	
				2016-17	2017-18	2018-19		Seed processing & storage infrastructure fund * (2016-17)	Revolving Fund		Name	Contact No. & E mail
									2016-17	2017-18		
Madhya Pradesh	AICRP, Indore RVSKVV,Gwalior	Indore	Chickpea	350	550	550	<b>2500</b>	50	40	60	-	-
			Lentil	100	100	100						
			Fieldpea	50	50	50						
			Pigeonpea		100	100						
			Mungbean		100	100						
			Urdbean		100	100						
	AICRP, Khargone (RVSKVV, Gwalior)	Khargone	Chickpea	200	250	250	<b>2500</b>	50	40	60		
			Lentil	100	100	100						
			Fieldpea	100	100	100						
			Pigeonpea		350	350						
			Mungbean	100	100	100						
			Urdbean		100	100						
<b>Total</b>				<b>3900</b>	<b>5300</b>	<b>6000</b>	<b>15200</b>	<b>300</b>	<b>248</b>	<b>352</b>		

**Centre –wise breeder seed production targets of various pulses through SAUs/ICAR Institutes approved is as under**

State	Name of the centre	District	Crop/ Variety	Present status of breeder seed production	Additional quantity of breeder seed to be produced			Total Additional breeder seed	Total quantity to be produced 2018-19 onwards	Total finan. budget (Rs. In lakh)	Details of nodal officer	
					2016 -17	2017 -18	2018- 19				Name	Contact No. & E mail
MP	JNKVV, Jabalpur	Jabalpur	Chickpea	1336.32	600	30	50	680	2016.32	<b>190.00</b>	Dr. D.K. Mishra	9424705597 <a href="mailto:Seed.jnkvv@gmail.com">Seed.jnkvv@gmail.com</a> <a href="mailto:Dkjkvv08@redffmail.com">Dkjkvv08@redffmail.com</a>
			Mungbean	43.66	50	20	20	90	133.32			
			Urdbean	48.7	50	15	15	80	128.7			
			Pigeonpea	250	100	20	30	150	400			
			Fieldpea	165.35	100	15	25	140	305.35			
			Lentil	51.31	50	20	15	85	136.31			
				<b>Total</b>	<b>1895.34</b>	<b>950</b>	<b>120</b>	<b>155</b>	<b>1225</b>	<b>3120</b>		
	RVSKVV, Gwalior	Gwalior	Chickpea	1528	500	15	25	540	2068	<b>92.00</b>	Dr. R.V. Singh	9461046553 <a href="mailto:adr.seed@sknau.ac.in">adr.seed@sknau.ac.in</a>
			Mungbean	230	100	15	22	137	367			
			Urdbean	30	20	20	28	68	98			
			Pigeonpea	25	25	20	25	70	95			
			Lentil	13	20	25	27	72	85			
					<b>Total</b>	<b>1826</b>	<b>665</b>	<b>95</b>	<b>127</b>			

**Breeder Seed Production Programme**

**Allocation of breeder seed production during Rabi 2016-17 for the indent of 2017-18**

S. No.	Centre	Crop	Variey	Notification years	DAC Indent (q)	Allocation (q)	Indenter (q)
1	JNKVV, Jabalpur	Lentil	JL 1	1991	10.00	14.00	MP (10.00)
			JL 3	2000	25.00	28.00	MP (25.00)
			RVL 31	2014	25.00	30.00	CG (20.00), MP (5.00)
2.		Filedpea	JP-885		1.00	1.50	SAI(1.00)
<b>Number of demonstration to be allotted to each AICRP centres during Rabi 2016-17</b>							
	ACRIP centre	No. of FLDs	Components				
1	JNKVV, Jabalpur	10+5	FP, IPM				
2	ARS, Indore	5+4+5	FP,IPM,ELSK				
3	ARS,Sehore	10+5+5	FP,IPM,ELSK				
4	IGKVV, Raipur	5+5	FP,RF				
5	IIPR,RS,Bhopal	5	FP				
<b>Number of demonstration to be allotted under TSP (Area in acre) during Rabi 2016-17</b>							
	Centre	No. of FLDs	Components				
1	ARS, Indore	50	FP				
2	ARS,Sehore	50	FP				
3	IGKVV, Raipur	50	FP				
4	KVK, Sehore	50	FP				
5	SGCOARS,IGKVV, Jagdapur (Baster)	50	FP				

S. No.	Centre	Crop	Variey	Notification years	DAC Indent (q)	Allocation (q)	Indenter (q)
1	IGKVV, Raipur	Lathyrus	Prateek	2011	79.00	85.00	BI(2.00),(CG(75.00)
2	IGKVV, Raipur	Fieldpea	Paras		22.00	25.00	CG (22.00)
					5.00	7.00	CG (5.00)

**BREEDER SEED PRODUCTION (2016-17)**  
**Allocation of Breeder Seed Production of Chickpea during Rabi 2016-17 for the indent of 2017-18**

S. No.	Variety	Year of Release	N.S. form	Name of the producing Breeder	Center	DAC Indent (q)	Allocation (q)	Indenter (q)
1.	JGK 5	2016	Jabalpur	Dr. D.K. Mishra Director (S&F)	JNKVV, Jabalpur	-	5.00	
2	JG 12	2014	Jabalpur	Dr. D.K. Mishra Director (S&F)	JNKVV, Jabalpur	120.00	150.00	MP(100.0) NSC(20.0)
3	JG 14	2009	Jabalpur	Dr. D.K. Mishra Director (S&F)	JNKVV, Jabalpur			
4	JGK 2	2007	Jabalpur	Dr. D.K. Mishra Director (S&F)	JNKVV, Jabalpur	60.00	75.00	MP (60.0)
5	JG 63	2006	Jabalpur	Dr. D.K. Mishra Director (S&F)	JNKVV, Jabalpur	471.00	521.00	CG 910.0), MP (352.0), NSC (55.0)
6	JG 322	1999	Jabalpur	Dr. D.K. Mishra Director (S&F)	JNKVV, Jabalpur	418.00	523.00	MP (418.0),
7	JG 74	1991	Jabalpur	Dr. D.K. Mishra Director (S&F)	JNKVV, Jabalpur	80.00	100.0	MP (80.0)
8	JG 315	1984	Jabalpur	Dr. D.K. Mishra Director (S&F)	JNKVV, Jabalpur	465.00	581.00	MP (465.0)
9	RVG 202	2015	Sehore	Dr. H.S. Yadav DRS	RVSKVV, Gwalior	-	248.0	-
10	RVKG 203	2012	Sehore	Dr. H.S. Yadav DRS	RVSKVV, Gwalior	74.00	93	CG(34.0) HIL(10.0, MP(10.0), MH (10.0), NSC(10.0)

11	RVG 201 (JSC 40)	2012	Sehore	Dr. H.S. Yadav DRS	RVSKVV, Gwalior	102	128	KCO (2.0), MP (80.0), NSC (10.0), RJ (10.0)
12	JG 6	2009	Sehore	Dr. H.S. Yadav DRS	RVSKVV, Gwalior	178.00	223.00	HIL (3.0) MP (175..0)
13	JAKI 9218	2008	Sehore	Dr. H.S. Yadav DRS	RVSKVV, Gwalior	-	586.00	-
14	JGK 3 (JGK 19)	2007	Gwalior	Dr. H.S. Yadav DRS	RVSKVV, Gwalior	82.00	103.00	MP(82.0)
15	JG 226	2007	Gwalior	Dr. H.S. Yadav DRS	RVSKVV, Gwalior	215.00	269.00	CG (15.0) MP (200.0)
16	JG 130	2002	Sehore	Dr. H.S. Yadav DRS	RVSKVV, Gwalior	375.00	469.00	CG (35.0) MP (340.0)
17	JG 16 (SAKI 9516)	2001	Sehore	Dr. H.S. Yadav DRS	RVSKVV, Gwalior	229.00	286.00	MP (229.0)
18	JG 11	1999	Jabalpur	Dr. H.S. Yadav DRS	RVSKVV, Gwalior	-	500.0	-

**BREEDER SEED PRODUCTION (2016-17)**

**Allocation of Breeder Seed Production of Chickpea during Rabi 2016-17 for the indent of 2017-18**

<b>S. No.</b>	<b>Variety</b>	<b>Year of Release</b>	<b>N.S. form</b>	<b>Name of the producing Breeder</b>	<b>Center</b>	<b>DAC Indent (q)</b>	<b>Allocation (q)</b>	<b>Indenter (q)</b>
1	Vaibhav (RG 9218)	2001	Raipur	Dr. P.L. Johanson Sr.Breeder	IGKV, Raipur	40.00	50.00	CG (40.0)