

**Directorate of Pulses Development,
Government of India
Ministry of Agriculture & Farmers Welfare
Deptt. Agri., Cooperation & Farmers Welfare
Bhopal -462004**

Dated: 07.07.2016

Sub:-Report on strategies for increasing production of Kharif Pulses-2016 in Madhya Pradesh State

(Ref.: Ministry's Letter No. 3-9/2016-NFSM dated 27th June, 2016.)

Point-wise Information:

1. Rainfall: District-wise rainfall situation

1.1 The SW Monsoon was delayed by one week and was activated on 20th June, 2016. The total seasonal rainfall (June, 1st to July 04th, 2016) as on date is 175 mm, 1% less than the state's normal rainfall of 176.40 mm during the corresponding period. As per the data, 19 districts fall under excess, 17 normal, 14 deficits and 01 under scanty rainfall.

The details of district-wise rainfall is at annex-I.

2. District-wise area and production targets and achievements of kharif pulses

3. Crop-wise area sown

3.1 The state's normal area under Kharif pulses is 12.73 lakh hectares. The state's target for 2016 Kharif season are at 21.77 lakh hectares. Thus the state's targets are about 71 % higher than the normal and also 27% higher than the coverage during 2015. *The district-wise area target and area sown under Kharif pulses is at Annex-II & III.*

3.2 **Crop-wise status on Kharif Pulses** – crop-wise normal area, targets during 2016 and achievements during 2015 are summarized in the Table. As on the date of reporting, coverage under pulses is about 6 lakh hectare which is approximately 27% higher than the coverage during last year Kharif season 2015.

Crops	Area: lakh ha, Production: Lakh tons						
	Area					Production	
	Normal	2015		2016		2015 (Actual**)	Target- 2016
		Target	Ach.	Target	Ach.*		
Tur	5.08	5.90	5.790	7.97	2.32	5.78	6.45
Urd	6.45	8.90	9.320	11.04	2.85	4.10	5.12
Moong	1.02	1.60	1.930	2.55	0.73	0.78	0.96
Other Kh. Pulses	0.18	0.15	0.140	0.21	0.05	0.05	0.07
Total Pulses	12.730	11.53	17.18	21.77	5.95	10.71	12.59
% of total Kharif	11	9	14	17	10	7	6
Total Kharif Crops	118.69	125.92	126.37	131.20	58.97	161.12	247.56

*Normal Area: DES, Ave. of (2010-11 to 2014-15) *achievement as on date 06.07.2016*

4. District-wise and Crop-wise target for demonstrations of Kharif pulses under NFSM, RKVY and state plan.

Total demonstrations under NFSM-pulses are 21320 ha. The crop-wise demonstrations are given under Table

The district-wise target for demonstrations of Kharif pulses under various schemes is at Annex-IV

(Unit: ha)

Demonstration	Approved Rate of Assistance	NFSM	RKVY	State Plan	Total
Cluster Demonstration (100 ha each) ha					
Arhar	Rs. 7500/-	9000	-	-	9000
Urd	Rs. 7500/-	11600	-	-	11600
Moong	Rs. 7500/-	30374	-	-	30374
Total		50974			50974
Demonstration on intercropping (ha)	Rs. 7500/-	15000	-	-	15000
Cropping System based Demonstration (ha)					
Paddy-Pulse	Rs. 12500/-	8000	-	-	8000
Pulse-Wheat	Rs. 12500/-	13320	-	-	13320
Total		21320		-	21320

5. Crop-wise target, seed availability for Kharif Pulses-2016

The stat's target was 50000 qtls. of which the availability was 31939 qtls. Thus the availability of quality/ certified seed remained short of 1806 qtl. The seed distribution targets, however, were kept higher than the last year. Crop-wise details are given as under:

(Quantity: Qtls.)

Crops	Seed Distribution-2015	2016		
		Targets	Total Availability	Gap
Arhar	15581	20000	12448	7552
Urd	15633	20000	12527	7473
Moong	6485	10000	6964	3036
Total Pulses	37699	50000	31939	18061

6. Position of seed distribution under NFSM, RKVY/state plans (Quantity: Qtl.)

Crops	Approved Rate of Assistance	NFSM	RKVY	State Plan	Total
Arhar	Rs. 2500/qtl.	20450	-	-	20450
Urd	Rs. 2500/qtl.	26100	-	-	26100
Moong	Rs. 2500/qtl.	58000	-	-	58000
Total Pulses		104550	-	-	104550

The district-wise target for seed demonstration of Kharif pulses under various schemes is at Annex-V

7. Status of Seed Minikits distribution under NFSM-Pulses: agency-wise

(Minikit No.)

Crops/Variety	NSC	NAFED	Total	Remarks
Urd (P U-31)	15000	-	15000	Not supplied due to non availability of seed
Moong (TJM-3)	-	10000	10000	Supplied 7220 minikits against the 10000 minikits
Total Pulses	15000	10000	25000	

8. Seed production targets under NFSM and other plan

The seed production targets under NFSM are yet to be received from the State Department of Agriculture, MP Govt.

9. Arrangement of inputs-Fertilizer, PP Chemicals

a. Fertilizer

(Unit: Lakh Metric Ton)

S. No.	Fertilizer	Target-2016	Availability	Distribution	Total Balance
1	Urea	9-00	6-76	2-39	4-37
2	DAP	6-50	5-98	1-58	4-41
3	Complex	2-20	0-85	0-42	0-43
4	MoP	0-75	0-65	0-18	0-47
5	SSP	6-00	2-30	0-46	1-83
6	other	0-03	0-01	0-00	0-01
Total		24-48	16-54	5-03	11-52

b. PP Chemicals

M-T (Tech Grade)

Particulars	2015-16						Demand-2016-17		
	Kharif		Rabi		Total		Kharif	Rabi	Total
	Demand	Consumption	Demand	Consumption	Demand	Consumption			
Pesticide	248	228	227	201	475	429	240	207	447
Fungicide	83	79	76	74	159	153	107	97	204
Weedicide	53	42	59	53	112	95	55	51	106
Rodenticides & Fumigents	25	27	33	20	58	47	32	19	51
Plant Growth Regulator	3	5	4	3	7	8	5	2	7
Biopesticides	166	147	150	154	316	301	184	146	330
Biotechnical Pesticides	50	48	47	46	97	94	42	45	87
Total	628	576	596	551	1224	1127	665	567	1232
% Consumption	92		93		92				

over Demand						
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10. Arrangement of micronutrients including sulphur and their availability

(Quantity: tones)

Micro-nutrients	Availability	Distribution	Balance
Zink Sulphate	39	26	13
Phospho-zipsum	63	-	63
Sulphur	60	30	30
Total	162	56	106

11. Targets for planting of arhar on rice bunds and intercropping of pulses with other crops

Some of the districts has targeted the programme on pigeon pea on bunds, and a majority of districts have targeted the inter-cropping of pigeon pea with other crops. However, total state level compilation on such targets has not been prepared/provided by the State Department of Agriculture. This information is based on the field visits by this Directorate in 16 districts of MP viz. Jabalpur, Narshingpur, Sagar, Damoh, Shahdol, Umaria, Indore, Khargone, Rewa, Satna, Raisen, Vidisha, Bhopal, Gwalior, Datia & Shivpuri.

12. Special initiatives taken for additional area coverage and productivity enhancement for increasing pulses production

12.1 The state's target for 2016 Kharif season are at 21.77 lakh ha as against the normal area Kharif pulses at 12.73 lakh ha. Thus the state's targets are about 71 % higher than the normal and also 27% higher than the coverage during Kharif 2015.

12.2 The paddy districts have targeted pigeon pea on paddy bunds apart from the inter-cropping/mixed cropping of pulses with the other crops like soybean, til, maize, bajra & jowar.

12.3 District like Bhopal, Vidisha, Indore, Dewas, etc. have also adopted/promoted the improved method of planting i.e. *ridge-furrow*, *BBF* etc.

13. Initiatives like primary processing of pulses for better realization of prices.

No information/initiatives on primary processing activities have come in the notice of this Directorate.

14. Monitoring Mechanism by state at district level for inputs arrangements, pest surveillance etc. for districts.

14.1 The prescribed monitoring mechanism for physical verification of input/demonstration etc. is given under table

S. No.	Monitoring Officer	Monitoring mechanism
1.	Deputy Director Agriculture (DDA)	5%
2.	Sub Divisional Officer (SDO)	10%
3.	Senior Agriculture Development Officer (SADO)	50%
4.	Agriculture Development Officer (ADO)	75%
5.	Rural Agriculture Extension Officer (RAEO)	100%

14.2 The first quarter release under NFSM has not been effected by the state head quarter and the state is implementing DBT.

15. Details of state Nodal Officer dealing pulses: (Name & Designation with address, telephone, email)

STATE	STATE NODAL OFFICER INFORMATION		
	Name & Address	Telephone	Email
Madhya Pradesh	Shri. Rajeev Joshi Joint Director (Agriculture)	0755-255208 9893287715	dagnfsm@mp.gov.in

15. Other issues if any of state govt. relating to pulses

15.1 Wild animal minas in the districts dominating forest.

15.2 Inadequate availability of quality/certified seeds of pulses in the various districts are likely to affect both, the NFSM and non-NFSM (conduct of cluster demonstration) beneficiaries.

15.3 Non supply of pulse seed minikits under NFSM-Pulses, especially urd crop.

15.4 Delayed and short supply of moong minikits.

(A. K. Tiwari)
Director

