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

Dated: 30.09.2016

Sub:-Report on strategies for increasing production of Kharif Pulses-2016 in Chhattisgarh State-District report

(Ref.: Ministry's Letter No. 3-9/2016-NFSM dated 29th, August, 2016)

District: Balod & Durg

1. **Rainfall: District-wise rainfall situation**

The total seasonal rainfall in the Balod and Durg district (June, 1st to September 20th, 2016) are 939.00 and 876.00 mm respectively. Which is -12.70 and -19.65 deficit than district normal of Balod and Durg district , respectively.

The details of rainfall is as under ***(Unit: mm)***

District	**Normal**	Actual Rainfall (20.09.2016)	Deviation from Normal		Category
			In MM	In %	
Balod	1075.54	939.00	136.54	-12.70	Deficit
Durg	1090.20	876.00	214.2	-19.65	Deficit

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

Crops	**(Area 000 ha)**				**Production (000 MT)**	
	Balod 2016		**Durg 2016**		**Target-2016**	
	Target	**Ach.***	**Target**	**Ach.***	**Balod**	**Durg**
Tur	4.000	3834	3.00	2.602	4.83	3.92
Urd	2.000	1774	0.300	0.175	1.30	0.19
Moong	0.300	559	0.200	0.102	0.20	0.12
Other Kh. pulses	0.050	10	0	0	0.018	0
Total Pulses	**6.350**	**6177**	**3.500**	**2.879**	**6.56**	**4.23**
% of total Kharif	**3.53**	**3.25**	**2.47**	**2.06**	**-**	**-**
Total Kharif Crops	**179.70**	**177.36**	**141.73**	**139.99**	**-**	**-**

3. **Crop-wise area sown**

3.1 **Crop-wise status on Kharif Pulses –** crop-wise area targets during 2016 of Balod and Durg and their achievements are summarized in the Tabl**e. Total pulses** coverage under Balod district is about 6.18 thousand ha which is 97.32% of the total area targets of District . Like wise in Durg district total pulses coverage is 2.71 thousand ha which is 77.49 % of target 2016 .

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

In Balod district total demonstrations under NFSM-pulses are 400 ha comprising of cluster demonstration of 100 ha, and cropping system based demon of 300 ha in the districts.Under BGREI 1000 ha CSBD for Paddy-Pulses. The crop-wise demonstrations are given under Table

Table: 4.1 Scheme-wise demonstration details Balod **(Unit: ha)**

Demonstration	Approved Rate of Assistance	NFSM Balod	RKVY	BGREI	State Plan	Total
Cluster Demonstration (100 ha each) ha						
Arhar	Rs. 7500/-	100	-		-	100
Urd	Rs. 7500/		-		-	
Moong	Rs. 7500/		-		-	
Total		**100**	**-**		**-**	**100**
Demonstration on intercropping (ha)	Rs. 7500/-		-		-	
Cropping System based Demonstration (ha)						
Paddy-Pulse	Rs. 12500/-	300	-	1000	-	1300
Pulse-Wheat	Rs. 12500/-	-	-		-	
Total		**300**	**-**	**1000**	**-**	**1300**
Grand Total		**400**		**1000**		**1400**

In Durg district total demonstrations under NFSM-pulses are 500 ha comprising

b. Status of PP chemicals in Balod district (Unit: Lit. & Qtl.)

Particulars	2015-16						Demand-2016-17		
	Kharif		Rabi		Total				
	Demand	Consumption	Demand	Consumption	Demand	Consumption	Kharif	Rabi	Total
Pesticide	-	45208	-	15069	-	60277	3010	-	3010
Fungicide	-	1074	-	158	-	1232	4350	-	4350
Weedidide	-	33536	-	-	-	33536	12518	-	12518
Rodenticides & Fumigents	-	-	-	-	-	-	-		
Plant Growth Regulator	-	1570	-	390	-	1960	537	-	537
Biopesticides	-	1385	-	-	-	1385	13015	-	13015
Biotechnical Pesticides	-	-	-	-	-	-	-		
Total	**-**	**82773**	**-**	**15617**	**-**	**98390**	**33430**	**-**	**33430**
% Consumption over Demand									

c. Status of Fertilizer in Durg

S. No.	Fertilizer	Target-2016	Availability	Distribution	Total Balance
1	Urea	14900	19694	14774	4920
2	DAP	7700	12189	8845	3344
3	Complex (12:32:16)	900	938	758	180
4	MOP	3600	4698	3059	1639
5	SSP	4800	5011	4229	782
6	other	1020	913	0	913
Total		**32920**	**43443**	**31665**	**11778**

d. Status of PP chemicals in Balod district (Unit: Lit. & Qtl.)

Particulars	2015-16						Demand-2016-17		
	Kharif		Rabi		Total				
	Demand	Consumption	Demand	Consumption	Demand	Consumption	Kharif	Rabi	Total
Pesticide	-	10987/105.77	-	7980/76.23	-	18967/182.89	7798/79.39	-	7798/79.39
Fungicide	-	1285/35.56	-	4773.54/12.25	-	1929/47.81	1069/16.03	-	1069/16.03
Weedicide	-	5687.46/11.11	-	787.22/7.89	-	10461/19.54	5790/13.67	-	5790/13.67
Rodenticides & Fumigents	-	0.13	-	0	-	0.13	-	-	-
Plant Growth Regulator	-	2912.78/81.13	-	644/13.87	-	3700/103	-	-	-
Bio pesticides	-		-		-	13200	8250	-	8250
Biotechnical Pesticides	-		-		-	-	-	-	-
Total	-	**21142.40/233.57**	-	**14184.80/110.24**	-	**35057/353.37**	**22907/109.09**	-	**22907/109.09**
% Consumption over Demand	-		-		-			-	

10. Arrangement of micronutrients including sulphur and their availability

(Quantity: Qtl.)

Micro-nutrients	Availability		Distribution		Balance	
	Balod	Durg	Balod	Durg	Balod	Durg
Zink Sulphate	266.00	273.80	266.00	273.80	-	
Phospho-zipsum	-	-	-	-	-	
Sulphur	60.00	-	60.00	-	-	
Total	**326.00**	273.80	**326.00**	273.80	**-**	

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

In Balod district total area of planting of arhar on rice bund and intercropping is 3883(606 ha as pure crop and 3168 ha on rice bund)

Arhar area in Durg district **(Unit: ha)**

S. No	Scheme	Component	Target	Achievement
A	NFSM	Arhar on rice bund	200	200
B	BGREI	Arhar on rice bund	2200	2200
C	NFSM	Intercropping Arhar and Soybean	100	100
D	NFSM	Intercropping Arhar and Maize	100	100

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

In Durg District

- HYV of Arhar minikit given to farmer for rice bund which Increase 2400 ha. Rice bund area and enhancement of pulses area and 150 Urd minikit which increase 30 ha. of pulses area.
- 100 ha. Arhar area enhancement proposed in Rabi season in district.

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

In Durg district 4 mini mills to farmer groups for processing of pulses and value addition is proposed in district.

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

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

DISTRICT	DISTRICT NODAL OFFICER INFORMATION		
	Name & Address	Telephone	Email
Balod	Yashwant Keram DDA Balod	07749223912	ddabalod.cg@gov.in
Durg	G.S.Dhurvey, DDA	0788-2323755	ddadurg.cg@nic.in

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

15.1 Unavailability of virus resistant variety of urd and moong

15.2 Unavailability of pulses varieties which is developed within 10 years.

15.3 Visited cluster demonstration on rice based cropping system village charbhata , block Gunderdehi District Balod – Rice variety karma masuri , transplanting time (7-18 July), crop at panicle stage and in good condition . At rice bund pigeon pea (var. Laxmi) crop sown in July month crop at vegetative stage and crop stand dense.

15.4 In village pataria visited seed production programme of pigeon pea (Rabi pigeonpea) sowing time of crop 5th September, Variety LRG 41, crop at 2-3 leaf stage, sowing is done by broadcasting method. Seed cost is Rs. 13500/ q and farmer get subsidy Rs. 2500/ q seed (seed supply agency. It is flood affected area. Total 400-500 ha area under this situation.

15.5 Visited general field at Rajpur village of Dhamdha block of Drug, farmer practice pigeonpea intercropping in soybean. In Dhamdha block also observed capsicum cultivation.

15.6 Visited cluster demonstration of pigeon pea on Ridge and furrow under NFSM pulses at village Heretara (Farmer – Yasvant kumar chandel) in 2 ha. Sowing date was 5th July, variety Rajeev Lochan with spacing of 90 X. 45 cm. Crop nipping perform on 7-10 September. Crop in vegetative stage and in good condition, expected yield 20 q/ha. Farmer inform that before this year he sow pigeon pea by broadcasting method. In this village total area under cluster demonstration of pigeon pea on Ridge and furrow under NFSM pulses is 50 ha comprising with 52 farmers. In this village also visited another beneficiary farmer plot of Shri Nikeshwar prassad chandel(2 ha) and Tramdwaj Jangel (2 ha) demonstration of pigeonpea on rige and furrow method. Crop in good condition , Farmer Shri Nikeshwar prassad chandel inform that he used weedicide Glyphosate 41 % SL for controlling weed between row as protected spray by using hood on spray nozzle 2 days before visit .

Field photographs

pigeon pea (var. Laxmi)on rice bund village charbhata , block Guderderdehi District Balod under cluster demonstration on rice based cropping system	Pigeonpea on rice bund
Cropping system based demonstration (Paddy-pulses (pea)) at village Khudni block – Gurur District Balod. Rice variety iChandrahasini	Cluster demonstration on hybrid rice(JKRH 401) under BGREI at village Bharda ,block Gurur Dist Balod
Check dam under extension activities of BGREI at village kharra block Guderderdehi Dist. Balod	Cluster demonstration on stress tolerant varieties under BGREI at village otebandh block- Gunderdehi District Balod

Seed production programme of pigeon pea (Rabi pigeonpea) sowing date of crop 5th September, Variety LRG 41at village pataria, Block Dhamdha, District Durg

View of Ridge furrow sowing of pigeonpea(Var. Asha) under seed minikit RKVY at village Rajpur , Block Dhamda, Dist- Durg

Cluster demonstration of pigeon pea (Rajeev Lochan)on Ridge and furrow under NFSM pulses at village Heretara Block Dhamda District Durg (Farmer – Yasvant kumar chandel)

cropping system based training under BGREI, village Dhaba , block Durg, District Durg