**Report of visit to Chhattisgarh State by Dr. M. Dutta, National Consultant (Oilseeds) from 5th to 7th March, 2018**

A visit was made to Chhattisgarh state w.e.f. 5th to 7th March, 2018 by Dr. M. Dutta, National Consultant (Oilseeds) to monitor the programme implementation of TRFA, NMOOP, NFSM and to assess the status of fund utilization. Districts Rajnandgaon and Raipur were visited and a meeting was held with the officials of State Department of Agriculture & Horticulture, State Seed Agencies and State Agricultural University.

**Fund utilization:**

**(Rs. in lakh)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Financial year** | **Sanctioned amount** | **UB of Previous FY (CS+SS)** | **Release** | **Total availability of funds** | **Expenditure** |
| **GOI** | **State** | **Total** |  | **Central Share** | **State Share** | **Total** |  | **Central Share** | **State Share** | **Total** |
| **TRFA** |
| 2017-18 |  |  |  |  |  |  | 2548.17 |  |  |  | 1153.44 |
| **NMOOP-Oilseeds** |
| 2017-18 | 464.65 | 309.76 | 774.41 | 6.33 | 193.54 | 129.03 | 322.57 | 328.90 | 126.92 | 84.61 | 211.53 |
| **NMOOP-Oil palm** |
| 2017-18 | - | - | - | - | - | - | - | - | - | - | - |
| **NFSM-Rice** |
| 2017-18 | 3225.46 | 2150.30 | 5375.77 | 2073.54 | 613.13 | 408.75 | 1021.88 | 3095.42 | 1365.09 | 910.05 | 2275.15 |
| **NFSM-Pulses** |
| 2017-18 | 3160.09 | 2106.73 | 5266.83 | 695.82 | 621.83 | 414.55 | 1036.38 | 1732.20 | 1018.00 | 678.66 | 1696.66 |
| **NFSM- Addl. Area Pulses** |
| 2017-18 | 1545.00 | 1030.00 | 2575.00 |  | 1545.00 | 1030.00 | 2575.00 | 2292.19 | 169.68 | 113.12 | 282.80 |
| **NFSM-Coarse Cereals** |
| 2017-18 | 172.65 | 115.10 | 287.75 | 159.78 | 86.32 | 57.55 | 143.87 | 303.65 | 94.39 | 62.93 | 157.33 |

The total fund utilization against released amount as on January, 2018 under various CSS reveals that it is 45.3% under TRFA, 64.3%% under NMOOP-Oilseeds, 75% under NFSM-Rice, 98% under NFSM-Pulses, 11% under NFSM-Addl. Pulses and 58% under NFSM-Coarse Cereals. As informed by the State, a pending liability of about Rs. 2.4 crores under ISOPOM implemented during 2013-14 needs revalidation by DAC&FW. The State has requested for revalidation of the amount under 75:25 ratio of ISOPOM.

**Status of APY of major crops:**

 The normal area and production of major kharif and rabi crops, area targeted and area sown upto 26.02.2018 are shows a marginal shortfall in kharif crops but significant shortfall in rabi crops as given in the following table:

 **(Area: 000 ha, Production: 000 MT)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Crop** | **Normal****(Avg. of last 03 years)** | **Year 2017-18** |
| **Area** | **Production** | **Area Targeted** | **Area Sown (26.02.2018)** |
| **Kharif Crops** |
| 1 | Paddy (Rice) | 3736.96 | 6813.54 | 3650.00 | 3711.48 |
| 2 | Maize | 209.51 | 393.55 | 225.00 | 226.79 |
| 3 | Millets | 81.58 | 24.63 | 85.00 | 79.29 |
|  | **Total Cereals** | **4028.05** | **7231.71** | **3960.00** | **4017.56** |
| 4 | Arhar  | 128.03 | 77.89 | 150.00 | 132.87 |
| 5 | Green gram | 25.29 | 10.93 | 30.00 | 24.27 |
| 6 | Black gram | 151.33 | 54.81 | 160.00 | 164.44 |
| 7 | Horse gram | 36.28 | 14.15 | 43.00 | 38.90 |
|  | **Total Pulses** | **340.93** | **157.78** | **383.00** | **360.48** |
| 8 | Groundnut | 52.89 | 63.52 | 62.00 | 55.00 |
| 9 | Sesame | 34.80 | 14.57 | 38.00 | 33.75 |
| 10 | Soybean | 130.33 | 77.60 | 140.00 | 124.21 |
| 11 | Niger | 64.28 | 11.54 | 70.00 | 65.70 |
| 12 | Sunflower | 0.36 | 0.14 | 2.00 | 0.16 |
|  | **Total Oilseeds** | **282.67** | **167.38** | **312.00** | **278.82** |
| 13 | Veg. & Other | 135.30 | 0.00 | 145.00 | 141.97 |
|  | **Grand Total**  | **4786.94** | **7556.87** | **4800.00** | **4798.83** |
| **Rabi Crops** |
| 1 | Wheat  | 162.70 | 244.81 | 196.98 | 180.38 |
| 2 | Maize | 77.42 | 141.47 | 95.00 | 80.00 |
| 3 | Summer Paddy (Rice) | 192.88 | 509.61 | 65.52 | 40.60 |
| 4 | Jowar | 6.10 | 1.99 | 7.55 | 6.16 |
|  | **Total Cereals** | **439.11** | **879.88** | **365.05** | **307.14** |
| 5 | Gram | 359.52 | 354.59 | 390.00 | 346.48 |
| 6 | Pea | 48.05 | 18.28 | 60.00 | 54.74 |
| 7 | Lentil | 26.48 | 8.91 | 30.00 | 28.51 |
| 8 | Green gram | 28.20 | 8.42 | 34.00 | 22.98 |
| 9 | Black gram | 14.82 | 3.95 | 20.00 | 16.29 |
| 10 | Horse gram | 27.03 | 8.74 | 26.00 | 25.93 |
| 11 | Lathyrus | 319.98 | 203.59 | 364.00 | 299.80 |
| 12 | Other Pulses | 3.49 | 0.00 | 2.25 | 1.58 |
|  | **Total Pulses** | **827.57** | **606.48** | **926.25** | **796.31** |
| 13 | Rapeseed/Mustard | 130.91 | 72.28 | 176.00 | 157.67 |
| 14 | Linseed | 54.59 | 22.32 | 75.53 | 51.52 |
| 15 | Safflower | 5.08 | 1.44 | 9.00 | 5.91 |
| 16 | Sunflower | 7.59 | 4.03 | 11.00 | 12.32 |
| 17 | Sesame | 2.13 | 0.65 | 3.60 | 1.46 |
| 18 | Groundnut | 27.91 | 36.93 | 33.00 | 26.83 |
| 19 | Other Oilseeds | 4.13 | 0.00 | 6.25 | 3.48 |
|  | **Total Oilseeds** | **232.23** | **137.66** | **314.38** | **259.19** |
| 20 | Sugarcane | 31.79 | 82.42 | 50.00 | 32.50 |
| 21 | Veg. & Other | 170.50 | 0.00 | 195.32 | 167.71 |
|  | **Grand Total** | **1701.30** | **1724.44** | **1851.00** | **1562.85** |

**Seed distribution – Rabi 2017-18:**

**(Qty. in q.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Crop** | **Demand** | **Availability** | **Distribution**  |
| 1 | Wheat | 70910.00 | 93387.90 | 78991.40 |
| 2 | Maize | 6482.00 | 8706.16 | 8706.16 |
| 3 | Summer Paddy | 0.00 | 228.00 | 228.00 |
|  | **Total Cereals** | **77392.00** | **102322.06** | **87925.56** |
| 4 | Gram | 50000.00 | 64922.80 | 48566.85 |
| 5 | Pea | 5000.00 | 6591.77 | 4919.55 |
| 6 | Lentil | 1000.00 | 2070.16 | 1344.11 |
| 7 | Green gram | 932.00 | 1582.31 | 1385.89 |
| 8 | Black gram | 1027.00 | 1624.20 | 1267.62 |
| 9 | Lathyrus | 3000.00 | 3078.00 | 500.85 |
| 10 | Horse gram | 100.00 | 100.00 | 0.00 |
|  | **Total Pulses** | **61059.00** | **79969.24** | **57984.87** |
| 11 | Mustard | 1385.00 | 3310.62 | 2460.06 |
| 12 | Toria | 600.00 | 621.15 | 442.84 |
| 13 | Groundnut | 2380.00 | 3857.20 | 1711.00 |
| 14 | Linseed | 400.00 | 1236.22 | 937.15 |
| 15 | Safflower | 280.00 | 633.48 | 441.22 |
| 16 | Sunflower | 89.00 | 264.92 | 194.92 |
| 17 | Seasame | 35.00 | 71.70 | 43.99 |
|  | **Total Oilseeds** | **5169.00** | **9995.29** | **6231** |
|  | **Grand Total** | **143620.00** | **192286.59** | **152141.61** |

District-wise seed demand, availability and distribution shows that Rajnandgaon district had the largest demand (13075 q) against which 11279 q has been distributed but district Raigarh had distributed the highest quantity of seed (16754 q) against the demand of 11588 q seed.

**Seed minikit rabi 2017-18:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.****No** | **Crop** | **Variety** | **Indent (No)** | **Allocation (No)** | **Received (No.)** | **Supply date** | **Supplying agency** |
| **Pulses-NFSM** |
| 1 | Gram | JAKI-9218 | 6250 | 6250 | 6250 | 20.08.2017 | NSC |
| JAKI-9218 | 18750 | 18750 | 18750 | 8.9.2017 | NAFED |
| JAKI-9218 | 3125 | 3125 | 3125 | 1.10.2017 | NSC |
|  | **28125** | **28125** | **28125** |  |  |
| 2 | Lentil | IPL-316 | 3750 | 3750 | 3750 | 29.9.17 to 6.10.2017 | NSC |
| 3 | Black gram | PU-31 | 2500 | 2500 | - | - | HIL |
|  | **Total - NFSM** |  | **34375** | **34375** | **31875** |  |  |
| **Oilseeds- NMOOP** |
| 1 | Mustard | NRCHB-101 | 12500 | 12500 | 12500 | 25.8.2017 | NSC |
| NRCHB-101 | 11500 | 11500 | 11500 | 7.10.2017 | HIL |
| Pusa Must30 | 25000 | 10200 | 10200 | 22.9.2017 | NAFED |
| CS-56 | 25000 | 25000 | 25000 | 3.10.2017 | NSC |
| RVM-2 | 14900 | 14800 | 14800 | 25.9.2017 | NAFED |
|  | **Total** |  | **88900** | **74000** | **74000** |  |  |
| 2 | Safflower | PBNS-40 | 1400 | 1400 | - |  | NSC |
| 3 | Groundnut | KADIRI-9 | 1000 | 4000 | 3000 | 14.11.2017 &22.1.2018 | NSC & NAFED |
| DHARINI | 1500 | 1500 | 1500 | 3.11.2017 | NSC |
|  | **Total** |  | **2500** | **5500** | **4500** |  |  |
| 4 | Linseed | AZAD ALSI-1 | 1000 | 1000 | 1000 | 16.9.2017 | NSC |
| JLS-67 | 1000 | 1000 | 1000 | 1.10.2017 | NSC |
| AZAD ALSI-1 | 15000 | 15000 | 15000 | 21.9.2017 | NAFED |
|  | **Total** |  | **17000** | **17000** | **17000** |  |  |
|  | **Total-NMOOP** |  | **109800** | **97900** | **95500** |  |  |
|  | **Grand Total (NFSM+NMOOP)** |  | **144175** | **132275** | **127375** |  |  |
| **TRFA** |
| 1 | Gram | JAKI-9218/ GVG-1581 | 50000 | 17500 | 17500 | 16.10.2017to 25.10.2017 | NSC |
| 2 | Lentil | PL-8/HUL-37 | 5000 | 2500 | 2283 | 23/24.10.2017 | NSC |
| 3 | Green gram | IPM-02-03 | 5000 | 0 | 0 |  |  |
| 4 | Mustard | RH-406 | 10000 | 5000 | 5000 | 10/12.10.2017 | NSC |
| 5 | Groundnut | K-6/K-9/ ICGV-91114 | 10000 | 2000 | 2000 | 14.10.2017to 3.11.2017 | NSC |
|  | ***Total TRFA*** |  | ***80000*** | ***27000*** | ***26783*** |  |  |
|  | ***Total Pulses*** |  |  | ***54375*** | ***51658*** |  |  |
|  | ***Total Oilseeds*** |  |  | ***104900*** | ***102500*** |  |  |
|  | **Grand Total**  |  |  | **159275** | **154158** |  |  |

**District Rajnandgaon (05.03.2018):**

The annual average rainfall is 1274 mm against which, the rainfall received during kharif 2017 was about 73% of the average. The area coverage under kharif crops was 98.6% and for rabi crops 74.1% against the normal area. The area under kharif crops in district Rajnandgaon was about 3,60,000 ha and 1,60,000 ha under rabi crops with a cropping intensity 141%. The final allocation approved by GoI for the district under **NFSM-Rice** was 553.59 lakh out of which the progressive achievement made is 270.17 lakh. Under **NFSM-Pulses** against the approved allocation of 333.26 lakh by GoI, the progressive achievement is 276.40 lakh, for **NFSM-Addl. Area on Pulses** against the approved target of 112.25 lakh, the progressive achievement is 87.54 lakh. Under **NMOOP-Oilseeds**, out of total allocation of Rs. 62.154 lakh an expenditure of Rs. 61.493 lakh has been made.

Under **TRFA programme**, physical targets for most of the components have been achieved except for the supply of certified seed for which only 32% target has been achieved. A marginal shortfall (25%) in supply of seed minikit of groundnut variety ICGV 91114 under TRFA has been reported. Seed input status for pulse crops for rabi 2017-18 reveals a shortfall of 592.3 q, but for oilseeds 78.0 q more seed has been distributed against the target. The status of fertilizer during rabi 2017-18 shows a huge gap of 34,888 tonnes against the target of 35,500 tonnes.

At v**illage Phoolghar, block Rajnandgaon** farmer Sri Rakesh Mandle has taken up 2.0 ha area under gram variety JAKI 9218. The crop was sown on 10.12.2017 and is at harvest stage with an estimated yield of 17.0 to 20.0 q/ha. In the same village **farmer Sri Kamta Sahoo** has grown gram variety in 2.0 ha area. The crop was still green and will be ready for harvest within 10-12 days. Farmer Sri Dharmendra Sahoo who has taken up gram crop has sprayed boron, applied zinc and pheromone traps resulting in excellent crop. At **village Vijaytala** in the same block **farmer Sri Govind** has taken up gram variety Digvijay in 2.0 ha area. The crop was sown on 15.11.2017 under the soybean-chickpea cropping system in which soybean was grown under ridge-furrow system. In **this village 61 farmers** have been adopted with a total of 100 ha area under chickpea. In the same village **farmer Sri Sanjay Vaishnav** has grown chickpea in 8.0 ha area. He has been supplied with a rotavator also along with other inputs. The farmer raised the issue of low price of gram, which was currently ruling at Rs. 3500/q.

At **village Pawasboard, block Khairagarh**, foundation to certified seed production of gram variety JG-130 was undertaken under Seed Hub programme by KVK, Durgi in about 18.0 ha area. Breeder to foundation seed programme of gram variety JAKI 9218 has been taken up in about 18.0 ha area with a target to produce 1200 q of seed. The KVK informed about the issue of non-availability of seed of green gram and black gram for seed production. The KVK is operating a revolving fund of about Rs. 18.00 to 20.00 lakh against the target amount of Rs. 40.00 to 45.00 lakh.

The KVK organized a **field day at village Pawasboard** in which about 100 farmers and State Officials participated. The farmers were enthusiastic about growing of pulses and oilseeds and expressed satisfaction about the role of KVK and the State Officials. The Incharge, KVK also visited different villages along with the State Officials accompanying the undersigned and offered the farmers that the seed produced by them can be processed at the seed processing unit installed at the KVK so that they can earn better returns.

**District Raipur (06.03.2018):**

 The annual average rainfall received was 558.20 mm which is about 60% of the 10 years average rainfall (930.70 mm) and 83.75% against the last year’s average (66.50%). The area covered under kharif crops was 1,55,311 ha against the target of 1,61,980 ha and last years’ average of 1,61,525 ha which is about 96% of the targeted area. Similarly, the area coverage under rabi season is 59,791 ha against the target of 70,100 ha and last years’ average of 69,396 ha which is about 85% of the targeted area.

 The financial allocation under **NFSM-Pulses** for the district during 2017-18 is Rs. 314.05 lakh and fund released is Rs. 340.29 lakh from SAMETI against which an expenditure of Rs. 256.185 lakh has been achieved and the available fund is Rs. 84.105 lakh upto 28.2.2018. However, further expenditure of Rs. 83.4887 lakh has again been shown with available balance of Rs. 1.162 lakh as on 1.3.2018. Under **NFSM-Additional Pulses** as against the total allocation of Rs.115.40 lakh and an expenditure of Rs.50.043 lakh has been achieved.

Under **NMOOP** as against the target of Rs. 22.700 lakh, an expenditure of Rs. 7.778 lakh has been achieved as per 6.6.2016, however, as per progress reported on 23.5.2017 against the target of Rs. 4.660 lakh, an expenditure Rs. 1.591 lakh has been achieved.

Under **TRFA**, as per details submitted on 5.3.2017 against an allocation of Rs. 276.80 lakh an achievement of Rs. 263.16 lakh has been achieved.

 At **village Gujra, block Aarong,** farmer Sri Ramesh Sharma has taken up mustard variety CS 56 in 6.0 ha area under the **Regha** system of share cropping. The crop was provided with 3 irrigations, soil application of DAP and urea application in addition to application of clorpyriphos. About 8-10 q /ha yield is expected from the crop. The gram variety JAKI 9218 grown in nearby field by the farmer was affected by wilt due to recent receipt of rainfall.

 At **village Akulikala, block Aarong,** farmer Sri Purshottam Chandrakar has taken up Lathyrus variety Partik in 1.00 acre area which was at harvest stage. In the same village, gram variety JG 63 has been grown in about 50.0 ha area, while in case of lentil local variety was grown by the farmers. It was informed that small seeded gram variety with rough seed coat is preferred by the farmers in place of bold and smooth seeded varieties. The crop was provided with 2 irrigations with sprinkler system operated through pumps run by solar system.

 At **village Chhatera, block Aarong** gram variety JG 63 has been grown in about 100 ha area, farmer Sri Dinesh Chandrakar has taken up chickpea cultivation with pigeon pea on the farm bunds, which was already harvested. The crop was affected by sporadic wilt incidence and about 10.0 q/ha yield was estimated. The farmers informed that attack by wild animals like monkey and wild boars is a serious problem as they damage the crop at harvest stage.

 At the same **village** farmer Sri Surya Prakash Chandrakar has established fruit orchard in collaboration with VNR Company who have supplied the improved seedlings and technical know-how. Guava, Ber, Papaya, Mango, Sapota, Litchi, Mausombi and seedless Lemon were grown with drip irrigation system and organic manure including poultry waste. Inter-cropping with vegetables and fruits like brinjal, capsicum and water melon was also taken up to enhance farm income. It was informed that Rs. 1.5 to 2.0 lakh/ha income is earned by the farmer from the fruit cultivation and assured markets is available for fruits.

**Meeting with officers of State Department and SAU (6.3.2018):**

 A meeting with the State Department Officials and SAU was held on 6.3.2018 in the chamber of Director, SAMETI, Raipur. It was informed that due to implementation of procurement of farm machineries through CHAMPS, the utilization of funds is slower. It was requested by the State that DBT for interventions involving smaller amounts may be waived, if feasible, so as to benefit the small and marginal farmers. It was assured that low utilization of funds under Additional Area on Pulses would be expedited. Similarly, the low utilization of funds under NMOOP-Oil palm is also being expedited and it was informed that the State has planned to organize a workshop on oil palm on 22nd March, 2018 at Raipur.

 The progress under Seed Hubs on Pulses was found satisfactory and infrastructure development has either been completed or nearing completion **(Annexure)**. However, delay in release of funds by ATARI was faced by the centres.

**Actionable points:**

* Pending liability of about Rs. 2.4 crores under ISOPOM implemented during 2013-14 needs revalidation by DAC&FW. The State has requested for revalidation of the amount under 75:25 ratio as per the norms of ISOPOM.

**Action: Oilseeds Div., DAC&FW**

* The shortfall in area coverage by food grain and oilseed crops during kharif, 2017 as well as rabi 2017-18 is a cause of concern, hence needs focused strategy.

**Action: State Department of Agriculture**

* Interventions involving smaller amounts may be waived from DBT implementation so as to benefit the small and marginal farmers.

**Action: State Department of Agriculture**

* The State should expedite fund utilization under NMOOP-Oil palm and Additional Area on Pulses.

**Action: State Department of Agriculture/ Horticulture**

* Significant reduction in rainfall in the current year has affected crop production, hence large number of water bodies existing in the State may be rejuvenated for providing life saving irrigation.

**Action: State Department of Agriculture**

* The State has requested to provide sufficient funds to implement TRFA in most of the districts and also support for protection of crop against wild animals may be provided.

**Action: TRFA, DAC&FW**

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**Annexure**

**Physical and Financial Progress of Seed Hub on Pulses**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of centre** | **Crop** | **Production target** **(Qtl)**  | **Production undertaken** |
| **Variety** | **Area sown****(ha)**  | **Expected yield (qtl.)**  |
| KVK, Bhatapara | Pigeon Pea  | 200 | Rajeev Lochan | 35.98 | 84.6+awaited |
| Field Pea  | 100 | Paras | 14.8 | 102.70 |
| Chickpea | 400 | JG-14 | 36.8 | 441.60 |
| Lentil  | 50 | HUL-57 | 3.05 | 30.00 |
| Lathyrus  | 50 | Prateek  | 11.9 | 80.00 |
| Moong  | 25 | PDM-02-03 | 15.00 | 50.00 |
| Urdbean  | 25 | Pratap Urd-1 | 15.00 | 50.00 |
| KVK, Kanker | Chickpea  | 300 | JAKI 9218 | 54.2 | 425.00 |
| Chickpea  | JG 14 | 4.00 |
| Black gram  | 100 | PU-31 | 7.00 | 26.00 |
| Horse gram  | Indira Kulthi, 2009 | 3.00 | 14.00 |
| Field pea  | 100 | Paras | 4.00 | 25.00 |
| Lathyrus  | 25 | Prateek | 2.00 | 10.00 |
| KVK, Kawardha | Chickpea | 600.00 | JAKI -9218 | 44.00 | 699.52 |
| Pigeonpea | 150.00 | Rajiv Lochan | 13.80 | 200.00 |
| Chickpea | 1400.00 | JG-14 | 50.00 | 1000.00 |
| KVK, Rajnandgaon | Chickpea | 1175 | JAKI-9218 | 47.80 | 525.00 |
| Chickpea | JG-130 | 43.60 | 479.00 |
| Mung bean  | Hum-16 | 30.0 | 171.00 |
| KVK, Janjgir-Champa | Pigeon Pea | 25 | RajeevLochan | 3.00 | 23.00 |
| Chickpea | 250 | JG-226 | 26.00 | 150.00 |
| Black gram | 250 | Pratap Urd-1 | 20.00 | 150.00 |
| KVK, Sarguja | Pigeonpea | 200 | TJT-501 | 26.60 | 100.00 |
| Rajiv Lochan | 3.00 |
| Black gram | 25 | Indira urd pratham | 3.00 | - |
| Azad-3 | 2.00 | 3.50 |
| Field pea | 300 | Aman | 21.40 | 200.00 |
| Adarsh | 9.20 |
| Lentil | 50 | RVL-31 | 10.80 | 50.00 |
| College of Agriculture DKSCARS, Bhatapara | Pegionpea | 300 | Rajeev Lochan | 30.00 | 300.00 |
| Field pea | 300 | Paras | 25.00 | 300.00 |
| Chick pea | 300 | JG-14 | 25.00 | 200.00 |