

## Annual Progress Report: 2017-18

### 5. Frontline demonstrations

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## 5. Frontline demonstrations

### Executive summary

During *Kharif 2017-18*, 331 frontline demonstrations (FLDs) on small millets were organized across country viz., Andhra Pradesh, Chattisgarh, Gujarat, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Tamil Nadu and Uttarakhand on farmer's fields. Latest varieties of small millets were demonstrated along with locally cultivar as a check in farmers' fields at different locations. The demonstrated varieties of finger millet, foxtail millet, kodo millet, little millet, barnyard millet and proso millet gave 54.83%, 60.43%, 47.29%, 57.07%, 67.08%, 71.59%, 74.28%, 44.96%, 106.76%, 80.61%, 154.32% and 107.33% higher grain and fodder yields respectively than the local checks.

### Detailed report

#### Introduction

The experience gained in many other commercial crops have shown that the Front Line Demonstrations (FLD's) have often been very effective by convincingly showing farmers the importance and the potential of improved technology in enhancing yields. The conduct of well laid out FLD's with the ultimate aim of demonstrating the visual impact of yield enhancement, calls for meticulous planning and continuous contact with farmers. As farmers are not aware of the improved technologies and their potentials; there is need to educate them to upgrade their skills. The purpose of Front Line Demonstrations was to demonstrate the full potential available in the recommended package. So, it was necessary to provide all key inputs (Seed of HYV's, suitable to the region and recommended dose of manures free of cost to the cultivator).

Prior to the commencement of crop season, a meeting was held at the respective villages to enlighten farmers about the objectives and the purpose behind these demonstrations. This helped in establishing good rapport between farmers and scientist and also in assessing the socio - economic conditions, besides existing level of adoption of technologies and receptivity of farmers to modern technologies etc. These demonstrations are organized under the direct guidance of a team of scientists who have generated the technology. There is an opportunity to show the full potential of the technology package and FLD's serves as a very effective medium for educating farmers as well as for training of field extension functionaries. Realizing this, the Department of Agriculture and Cooperation, Ministry of Agriculture, Government of India and the Indian Council of Agricultural Research, jointly initiated the conduct of Front Line Demonstrations (FLD's) under the aegis of All India Coordinated Research project on Small Millets (AICRP on Small Millets). Keeping these in view, FLDs on Small millets were organized during *Khari 2017-18* at different locations of the country.

#### Implementation of frontline demonstrations during 2017-18

Front Line Demonstrations were conducted during 2017 in the states of Andhra Pradesh, Karnataka, Tamil Nadu, Chattisgarh, Jharkhand, Maharashtra, Madhya Pradesh, Uttarakhand and Gujarat on farmer's fields. The total area under Front Line Demonstrations was 330.6 ha of which 139.1 ha was in finger millet, 46 ha in kodo millet, 39.8 ha in foxtail millet, 83.2 ha in little millet, 17.5 ha in barnyard millet and 5 ha in proso millet. Both centre and crop wise breakup of Front Line Demonstrations conducted during the period is provided in Table1 and state and crop wise breakup of FLD farmers were presented in Table 2. The cooperative and well responsive farmers from different categories were selected from the villages of each site. The detailed technical programme organized during 2017-18 is given here under.

Table 1: Centre and crop wise breakup of area covered (hectares) under FLDs during 2017-18

| S. NO. | Center       | FM           | FTM         | LM          | KM        | PM       | BM          | Total Area. ha |
|--------|--------------|--------------|-------------|-------------|-----------|----------|-------------|----------------|
| 1      | P.C. unit    | 19.6         | 4.8         | 4.8         | -         | -        | -           | 29.2           |
| 2      | VPKAS Almora | 8.8          | -           | -           | -         | -        | 2.5         | 11.3           |
| 3      | Mandya       | 12.9         | -           | -           | -         | -        | -           | 12.9           |
| 4      | Hagari       | -            | 10          | -           | -         | -        | -           | 10             |
| 5      | Nandyal      | -            | 20          | -           | -         | -        | -           | 20             |
| 6      | Vizianagaram | 10           | -           | 10          | -         | -        | -           | 20             |
| 7      | Jagdalpur    | 15           | -           | 13          | 10        | -        | -           | 38             |
| 8      | Athiyandal   | 5            | 5           | 5           | 5         | 5        | 5           | 30             |
| 9      | Ranichauri   | 10           | -           | -           | -         | -        | 10          | 20             |
| 10     | Dindori      | -            | -           | 15          | 16        | -        | -           | 31             |
| 11     | Rewa         | -            | -           | 5.4         | 15        | -        | -           | 20.4           |
| 12     | Kolhapur     | 15           | -           | 5           | -         | -        | -           | 20             |
| 13     | Ranchi       | 17.80        | -           | -           | -         | -        | -           | 17.8           |
| 14     | Waghai       | 25           | -           | 25          | -         | -        | -           | 50             |
|        | <b>Total</b> | <b>139.1</b> | <b>39.8</b> | <b>83.2</b> | <b>46</b> | <b>5</b> | <b>17.5</b> | <b>330.6</b>   |

Table 2: Centre and crop wise breakup of farmers covered (hectares) under FLDs during 2017-18

| S. NO. | Center       | Finger millet | Foxtail millet | Little millet | Kodo millet | Proso millet | Barnyard millet | Total No of farmers |
|--------|--------------|---------------|----------------|---------------|-------------|--------------|-----------------|---------------------|
| 1      | P.C. unit    | 49            | 12             | 12            | -           | -            | -               | 73                  |
| 2      | VPKAS Almora | 202           | -              | -             | -           | -            | 35              | 237                 |
| 3      | Mandya       | 18            | -              | -             | -           | -            | -               | 18                  |
| 4      | Hagari       | -             | 25             | -             | -           | -            | -               | 25                  |
| 5      | Nandyal      | -             | 30             | -             | -           | -            | -               | 30                  |
| 6      | Vizianagaram | 15            | -              | 10            | -           | -            | -               | 25                  |
| 7      | Jagdalpur    | 23            | -              | 10            | 12          | -            | -               | 45                  |
| 8      | Athiyandal   | 9             | 16             | 10            | 8           | 10           | 12              | 65                  |
| 9      | Ranichauri   | 130           | -              | -             | -           | -            | 151             | 281                 |

|    |              |            |           |            |            |           |            |             |
|----|--------------|------------|-----------|------------|------------|-----------|------------|-------------|
| 10 | Dindori      | -          | -         | 25         | 31         | -         | -          | 56          |
| 11 | Rewa         | -          | -         | 25         | 76         | -         | -          | 101         |
| 12 | Kolhapur     | 75         | -         | 25         | -          | -         | -          | 100         |
| 13 | Ranchi       | 41         | -         | -          | -          | -         | -          | 41          |
| 14 | Waghai       | 100        | -         | 100        | -          | -         | -          | 200         |
|    | <b>Total</b> | <b>662</b> | <b>83</b> | <b>217</b> | <b>127</b> | <b>10</b> | <b>198</b> | <b>1297</b> |

The total number of farmers involved was 1297 (Table 2). Number of front line demonstrations conducted in small millets in different states (Table 3) indicated that there were 662 farmers involved in finger millet demonstrations during 2017 across the country followed by proso millet (10), Kodo millet (127), foxtail millet (83), little millet (217), and barnyard millet (198). The main purpose of this activity was to demonstrate the yield potential that could be attained by adopting the improved cultivation practices.

**Table 3: State and crop wise breakup of area covered (hectares) under FLDs during 2017-18**

| State                  | Finger millet | Foxtail millet | Little millet | Kodo millet | Proso millet | Barnyard millet | Total area (ha) |
|------------------------|---------------|----------------|---------------|-------------|--------------|-----------------|-----------------|
| Karnataka              | 32.5          | 14.8           | 4.8           | -           | -            | -               | 52.1            |
| Uttarakhand            | 18.8          | -              | -             | -           | -            | 12.5            | 31.3            |
| Andhra Pradesh         | 10            | 20             | 10            | -           | -            | -               | 40              |
| Madhya Pradesh         | -             | -              | 20.4          | 31          | -            | -               | 51.4            |
| Tamil Nadu             | 5             | 5              | 5             | 5           | 5            | 5               | 30              |
| Maharashtra            | 15            | -              | 5             | -           | -            | -               | 20              |
| Chattisgarh            | 15            | -              | 13            | 10          | -            | -               | 38              |
| Jharkhand              | 17.8          | -              | -             | -           | -            | -               | 17.8            |
| Gujarat                | 25            | -              | 25            | -           | -            | -               | 50              |
| <b>Total area (ha)</b> | <b>139.1</b>  | <b>39.8</b>    | <b>83.2</b>   | <b>46</b>   | <b>5</b>     | <b>17.5</b>     | <b>330.6</b>    |

**Table 4: State and crop wise breakup of farmers covered (hectares) under FLDs during 2017-18**

| State          | Finger millet | Foxtail millet | Little millet | Kodo millet | Proso millet | Barnyard millet | Total no. farmers |
|----------------|---------------|----------------|---------------|-------------|--------------|-----------------|-------------------|
| Karnataka      | 67            | 37             | 12            | -           | -            | -               | 116               |
| Uttarakhand    | 332           | -              | -             | -           | -            | 186             | 518               |
| Andhra Pradesh | 15            | 30             | 10            | -           | -            | -               | 55                |
| Madhya Pradesh | -             | -              | 50            | 107         | -            | -               | 157               |
| Tamil Nadu     | 9             | 16             | 10            | 8           | 10           | 12              | 65                |
| Maharashtra    | 75            | -              | 25            | -           | -            | -               | 100               |
| Chattisgarh    | 23            | -              | 10            | 12          | -            | -               | 45                |
| Jharkhand      | 41            | -              | -             | -           | -            | -               | 41                |
| Gujarat        | 100           | -              | 100           | -           | -            | -               | 200               |

|       |     |    |     |     |    |     |      |
|-------|-----|----|-----|-----|----|-----|------|
| Total | 662 | 83 | 217 | 127 | 10 | 198 | 1297 |
|-------|-----|----|-----|-----|----|-----|------|

### Demonstrated small millet cultivars and improved package of practices

Most of the demonstrations were conducted by adopting the whole package for latest national and state released small millet were demonstrated and compared with locally popular varieties as a check (LC). The state wise technologies demonstrated under the FLDs during *kharif* 2017-18 are given in Table 5.

Table 5: Improved varieties demonstrated under FLDs

| State          | Finger millet                       | Foxtail millet                 | Little millet             | Kodo millet                      | Proso millet | Barnyard millet      |
|----------------|-------------------------------------|--------------------------------|---------------------------|----------------------------------|--------------|----------------------|
| Karnataka      | GPU-67, KMR 301, KMR 340, KMR 204   | SiA 2644, Suryanandi           | OLM-203                   | -                                | -            | -                    |
| Uttarakhand    | VL Mandua 352, VL Mandua 324, PRM-2 | -                              | -                         | -                                | -            | VL Madira 172, PRJ-1 |
| Andhra Pradesh | VR-847                              | SiA 3156, SiA 3085, Suryanandi | OLM-203                   | -                                | -            | -                    |
| Madhya Pradesh | -                                   | -                              | JK 8, JK 4, JK 36         | JK439, JK 155, JK 137, RK 390-25 | -            | -                    |
| Tamil Nadu     | CO(Ra) 15                           | CO(Te)7                        | CO (Sa) 4                 | CO 3                             | CO(PV)5      | CO (KV)2             |
| Maharashtra    | Phule Nachani (KOPN 235)            | -                              | Phule Ekadashi (KOPLM 83) | -                                | -            | -                    |
| Chattisgarh    | CG Ragi-2                           | -                              | CG Kutki-1                | CG Kodo-1                        | -            | -                    |
| Jharkhand      | A404, BBM 10                        | -                              | -                         | -                                | -            | -                    |
| Gujarat        | GN-4, GN-5, GNN-6, GNN-7            | -                              | GV-2 and GNV-3            | -                                | -            | -                    |

## Results

### Grain, Fodder yields and economics of small millet cultivation

The results indicated (Table 6, 7, 8,9,10 and 11) that (on mean location basis)

1. The demonstrated varieties of finger millet under FLDs yielded (54.83 per cent increase) grains and 60.42 per cent more fodder than the local check. In results, an incremental benefit-cost (B: C) ratio of 2.02 was obtained from them compared to the local check.

2. The data on grain and fodder yields obtained from demonstrated varieties of Foxtail millet under FLDs which were organized by Athiyandal, Hagari, Bengaluru and Nandyal indicated that yielded 47.28 per cent more grains and 57.07 per cent more fodder with B: C ratio of 2.37 compared to the local varieties.
3. Demonstrated varieties of Kodo millet performed better in terms of grain (67.07 %) and fodder yield (71.59 %) under FLD which were more B: C ratio (2.15) compared to farmers practice.
4. The data on grain and fodder yields of little millet obtained from demonstrated varieties under FLDs yielded 74.28 per cent more grains and 44.95% more fodder yield than the checks. It shows that the demonstrated varieties were also good as per the fodder yield is concerned compared to the local varieties.
5. Performance of demonstrated varieties of Barnyard millet in the Athiyandal, Almora and Ranichauri was found better and gave 106.76 per cent higher grain and 80.61 per cent fodder yield than the local check.
6. In Athiyandal area of Tamilnadu, CO 5 variety of Proso millet performed better and gave 154.32 per cent higher grain and 107.33 per cent fodder yield than the local check.

### Impact of the frontline demonstrations

The results revealed (Table 6, 7, 8,9,10 and 11) that the grain yield of finger millet (1461 kg/ha), foxtail millet (1161 kg/ha), kodo millet (814 kg/ha), little millet (693), barnyard millet (784) and proso millet (753) was lower under local practice as compared to FLDs (2262, 1710, 1360, 1213 and 1915 kg/ha, respectively) indicating wide gap of 54.83, 47.29, 67.08, 74.28, 106.76 and 154.32 per cent respectively, across the states. Moreover, in case of fodder was also found wide yield gap. The net returns obtained under FLDs was Rs. 32763, 21798, 18977, 19846, 20334 and 35197 per ha, of finger millet, foxtail millet, kodo millet, little millet, barnyard millet and proso millet respectively.

| Per cent yield gap in small millets across the centres |              |               |                |               |             |              |                 |
|--|--------------|---------------|----------------|---------------|-------------|--------------|-----------------|
| S. NO.   | Center       | Finger millet | Foxtail millet | Little millet | Kodo millet | Proso millet | Barnyard millet |
| 1  | P.C. unit    | 24.90         | 106.26         | 102.71        | -           | -            | -               |
| 2  | VPKAS Almora | 18.61         | -              | -             | -           | -            | 12.80           |
| 3  | Mandya       | 21.69         | -              | -             | -           | -            | -               |
| 4  | Hagari       | -             | 69.73          | -             | -           | -            | -               |
| 5  | Nandyal      | -             | 13.41          | -             | -           | -            | -               |
| 6  | Vizianagaram | 43.11         | -              | 62.68         | -           | -            | -               |
| 7  | Jagdapur     | 110.13        | -              | 113.58        | 96.53       | -            | -               |
| 8  | Athiyandal   | 58.31         | 42.74          | 45.80         | 43.88       | 154.31       | 71.71           |
| 9  | Ranichauri   | -             | -              | -             | -           | -            | -               |
| 10   | Dindori      | -             | -              | 82.56         | 84.80       | -            | -               |
| 11   | Rewa         | -             | -              | 47.03         | 45.63       | -            | -               |
| 12   | Kolhapur     | 29.02         | -              | 29.87         | -           | -            | -               |
| 13   | Ranchi       | -             | -              | -             | -           | -            | -               |
| 14   | Waghai       | 72.25         | -              | 100.67        | -           | -            | -               |

|  |       |       |       |       |       |        |       |
|--|-------|-------|-------|-------|-------|--------|-------|
|  | Total | 45.70 | 58.03 | 73.11 | 67.71 | 154.31 | 42.25 |
|--|-------|-------|-------|-------|-------|--------|-------|

Table -6 : Grain yield (kg/ha), fodder yield (kg/ha) and economics of finger millet : 2017-18

| Centre name  | Grain Yield (kg /ha) |      | Fodder yield (kg/ha) |      | Gross return (Rs./ha) |       | Net return (Rs./ha) |       | B:C ratio |      |
|--------------|----------------------|------|----------------------|------|-----------------------|-------|---------------------|-------|-----------|------|
|              | FLD                  | FP   | FLD                  | FP   | FLD                   | FP    | FLD                 | FP    | FLD       | FP   |
| PC unit      | 2498                 | 2000 | 4256                 | 3500 | 55022                 | 45000 | 32418               | 22900 | 2.45      | 2.00 |
| Almora       | 1854                 | 1563 | 4350                 | 4055 | 63694                 | 53340 | 27989               | 17854 | 0.80      | 0.50 |
| Mandya       | 2967                 | 2438 | 4836                 | 3681 | 81430                 | 66471 | 55695               | 41371 | 3.17      | 2.91 |
| Vizianagaram | 2576                 | 1800 | 7236                 | 5147 | 51517                 | 36004 | 30983               | 19809 | 1.51      | 1.22 |
| Jagdapur     | 1742                 | 829  | 5573                 | 2480 | 37621                 | 17826 | 25701               | 11577 | 2.16      | 1.85 |
| Athiyandal   | 2381                 | 1504 | 2796                 | 2073 | 60923                 | 38639 | 37423               | 18989 | 2.59      | 1.97 |
| Ranichauri   | 1754                 | -    | 4636                 | -    | 46665                 | -     | 16874               | -     | 1.57      | -    |
| Kolhapur     | 1809                 | 1402 | 2334                 | 1805 | 38517                 | 29842 | 15075               | 10892 | 1.64      | 1.57 |
| wagai        | 2775                 | 1611 | 6634                 | 3847 | 75400                 | 43768 | 52705               | 23794 | 2.32      | 1.19 |
| Mean         | 2262                 | 1461 | 4739                 | 2954 | 56754                 | 36766 | 32763               | 18576 | 2.02      | 1.47 |

Table -7 : Grain yield (kg/ha), fodder yield (kg/ha) and economics of foxtail millet: 2017-18

| Centre name | Grain Yield (kg /ha) |      | Fodder yield (kg/ha) |      | Gross return (Rs./ha) |       | Net return (Rs./ha) |       | B:C ratio |      |
|-------------|----------------------|------|----------------------|------|-----------------------|-------|---------------------|-------|-----------|------|
|             | FLD                  | FP   | FLD                  | FP   | FLD                   | FP    | FLD                 | FP    | FLD       | FP   |
| PC unit     | 1745                 | 846  | 2971                 | 1346 | 39881                 | 18266 | 20512               | 6766  | 2.07      | 1.59 |
| Hagari      | 1015                 | 598  | 1900                 | 1113 | 20133                 | 14988 | 10983               | 5838  | 2.20      | 1.67 |
| Athiyandal  | 2184                 | 1530 | 2616                 | 1640 | 55926                 | 39093 | 32426               | 19443 | 2.38      | 1.99 |
| Nandyal     | 1894                 | 1670 | 2465                 | 2238 | 35886                 | 31732 | 23259               | 17894 | 2.82      | 2.26 |
| Mean        | 1710                 | 1161 | 2488                 | 1584 | 37957                 | 26020 | 21795               | 12485 | 2.37      | 1.88 |

Table -8 : Grain yield (kg/ha), fodder yield (kg/ha) and economics of kodo millet : 2017-18

| Centre name | Grain Yield (kg /ha) |      | Fodder yield (kg/ha) |      | Gross return (Rs./ha) |       | Net return (Rs./ha) |       | B:C ratio |      |
|-------------|----------------------|------|----------------------|------|-----------------------|-------|---------------------|-------|-----------|------|
|             | FLD                  | FP   | FLD                  | FP   | FLD                   | FP    | FLD                 | FP    | FLD       | FP   |
| Jagdapur    | 1590                 | 809  | 3970                 | 2022 | 33749                 | 17188 | 22638               | 10350 | 2.04      | 1.51 |
| Athiyandal  | 1600                 | 1112 | 2287                 | 1537 | 49144                 | 34144 | 25644               | 14494 | 2.09      | 1.74 |
| Dindori     | 1447                 | 783  | 1763                 | 1054 | 37053                 | 20095 | 17053               | 4095  | 1.85      | 1.26 |
| Rewa        | 801                  | 550  | 1643                 | 1018 | 17219                 | 11426 | 10574               | 5320  | 2.62      | 1.94 |
| Mean        | 1360                 | 814  | 2416                 | 1408 | 34291                 | 20713 | 18977               | 8565  | 2.15      | 1.61 |

Table -9 : Grain yield (kg/ha), fodder yield (kg/ha) and economics of little millet: 2017-18

| Centre name  | Grain Yield (kg/ha) |      | Fodder yield (kg/ha) |      | Gross return (Rs./ha) |       | Net return (Rs./ha) |       | B:C ratio |      |
|--------------|---------------------|------|----------------------|------|-----------------------|-------|---------------------|-------|-----------|------|
|              | FLD                 | FP   | FLD                  | FP   | FLD                   | FP    | FLD                 | FP    | FLD       | FP   |
| PC unit      | 1794                | 885  | 2888                 | 1563 | 41242                 | 19263 | 22613               | 7763  | 2.21      | 1.68 |
| Vizianagaram | 1430                | 879  | 5224                 | 4562 | 29130                 | 18034 | 16144               | 8459  | 1.24      | 0.88 |
| Jagdapur     | 833                 | 390  | 2708                 | 1305 | 22187                 | 10390 | 12839               | 4790  | 1.37      | 0.86 |
| Athiyandal   | 939                 | 644  | 1473                 | 1037 | 33583                 | 19857 | 10083               | 207   | 1.43      | 1.01 |
| Dindori      | 1068                | 585  | 1469                 | 1046 | 32782                 | 18085 | 12782               | 2085  | 1.64      | 1.13 |
| Rewa         | 619                 | 421  | 1365                 | 905  | 16728                 | 11444 | 10634               | 5518  | 2.76      | 1.93 |
| Kolhapur     | 952                 | 733  | 1330                 | 1097 | 39061                 | 30135 | 15619               | 11185 | 1.67      | 1.59 |
| Wagai        | 2069                | 1031 | 6192                 | 4111 | 80657                 | 43263 | 58057               | 23384 | 2.57      | 1.18 |
| Mean         | 1213                | 696  | 2831                 | 1953 | 36921                 | 21309 | 19846               | 7924  | 1.86      | 1.28 |

Table -10 : Grain yield (kg/ha), fodder yield (kg/ha) and economics of barnyard millet : 2017-18

| Centre name | Grain Yield (kg/ha) |      | Fodder yield (kg/ha) |      | Gross return (Rs./ha) |       | Net return (Rs./ha) |       | B:C ratio |      |
|-------------|---------------------|------|----------------------|------|-----------------------|-------|---------------------|-------|-----------|------|
|             | FLD                 | FP   | FLD                  | FP   | FLD                   | FP    | FLD                 | FP    | FLD       | FP   |
| Almora      | 1639                | 1453 | 3223                 | 3787 | 54717                 | 47377 | 21761               | 13475 | 0.66      | 0.40 |
| Athiyandal  | 1542                | 898  | 1729                 | 1566 | 47129                 | 27743 | 23629               | 8093  | 2.01      | 1.41 |
| Ranichuri   | 1681                | -    | 4714                 | -    | 45404                 | -     | 15612               | -     | 1.52      | -    |
| Mean        | 1621                | 784  | 3222                 | 1784 | 49083                 | 25040 | 20334               | 7189  | 1.40      | 0.60 |

Table -11 : Grain yield (kg/ha), fodder yield (kg/ha) and economics of proso millet: 2017-18

| Centre name | Grain Yield (kg/ha) |     | Fodder yield (kg/ha) |      | Gross return (Rs./ha) |       | Net return (Rs./ha) |      | B:C ratio |      |
|-------------|---------------------|-----|----------------------|------|-----------------------|-------|---------------------|------|-----------|------|
|             | FLD                 | FP  | FLD                  | FP   | FLD                   | FP    | FLD                 | FP   | FLD       | FP   |
| Athiyandal  | 1915                | 753 | 2488                 | 1200 | 58697                 | 23193 | 35197               | 3542 | 2.50      | 1.18 |

## Conclusion

Demonstrated small millet varieties yielded higher grain and fodder than the local varieties which were economically superior to local varieties.

## Proposal of FLD's on Small Millets for the year 2018-19

### Proposal of FLD's on Small Millets for the year 2018-19

| SL. NO. | Center    | FM | FTM | LM | KM | PM | BM | Total Area. ha |
|---------|-----------|----|-----|----|----|----|----|----------------|
| 1       | P.C. unit | 20 | 5   | -  | 5  | -  | -  | 30             |



|    |               |     |    |    |    |   |    |     |
|----|---------------|-----|----|----|----|---|----|-----|
| 2  | VPKAS Almora  | 10  | -  | -  | -  | - | 5  | 15  |
| 3  | Mandya        | 20  | -  | -  | -  | - | -  | 20  |
| 4  | Hagari        | -   | 10 | -  | -  | - | -  | 10  |
| 5  | Nandyal       | -   | 20 | -  | -  | - | -  | 20  |
| 6  | Vizianagaram  | 15  | -  | 10 | -  | - | -  | 25  |
| 7  | Jagdapur      | 15  | -  | 5  | 10 | - | -  | 30  |
| 8  | Athiyandal    | 5   | 5  | 5  | 5  | 5 | 5  | 30  |
| 9  | Ranichauri    | 10  | -  | -  | -  | - | 10 | 20  |
| 10 | Dindori       | -   | -  | 15 | 15 | - | -  | 30  |
| 11 | Hanamanamatti | -   | 5  | 5  | -  | - | 5  | 15  |
| 12 | Kolhapur      | 15  | -  | 5  | -  | - | -  | 20  |
| 13 | Kanke         | 15  | -  | -  | -  | - | -  | 15  |
| 14 | Waghai        | 10  | -  | 10 | -  | - | -  | 20  |
|    | Total         | 135 | 45 | 55 | 35 | 5 | 25 | 300 |

## Improved varieties to be demonstrated under FLDs through AICRP (SM) 2018-19

| State          | Finger millet                          | Foxtail millet       | Kodo millet                    | Little millet              | Barnyard millet  | Proso millet     |
|----------------|--|----------------------|--------------------------------|----------------------------|------------------|------------------|
| Karnataka      | GPU-67<br>GPU-66<br>KMR 204<br>KMR 301 | SiA 3088<br>SiA 3156 | RK 390-25                      | -                          | -                | -                |
| Uttarakhand    | VL-352<br>VL-376<br>VL-379<br>VL-348   | -                    | -                              | -                          | VL 207<br>PRJ -1 | -                |
| Andhra Pradesh | VR 847                                 | SiA 3088<br>SiA 3156 | -                              | JK - 8<br>OLM 203          | -                | -                |
| Madhya Pradesh | -                                      | -                    | RK-390 -25<br>JK -98<br>JK-439 | JK - 8<br>JK-36            | -                | -                |
| Tamil Nadu     | CO-15<br>GPU-28<br>CO-4                | CO-7<br>SiA 3156     | TNAU 86<br>CO-3                | CO-4<br>OLM 203<br>TNAU 91 | CO-2<br>VL 207   | TNAU 202<br>CO-5 |
| Maharashtra    | KOPN-235                               | -                    | -                              | KOPLM-83                   | -                | -                |
| Chattisgarh    | GPU 28<br>CG-2<br>Indira ragi          | -                    | Indira kodo 1<br>RK 390-25     | BL-4<br>BL-6               | -                | -                |
| Jharkhand      | GPU 67<br>BBM-10<br>A 404              | -                    | -                              | -                          | -                | -                |
| Gujarat        | GNN-6<br>GN- 7                         | -                    | -                              | GV-2<br>GNV-3              | -                | -                |