

**FORMAT  
FOR  
ANNUAL PROGRESS REPORT OF  
THE KVKs  
IN  
ZONE VII**

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## **Instructions for Filling the Format**

- 1. Do not change/modify/ delete any column of any of the table. However, additional rows can be created, if required**
- 2. Do not merge columns, rows.**
- 3. Please repeat the name of KVK in each table in the column “Name of KVK”**
- 4. Do not fill the non-numerical values in numeric field**
- 5. Do not repeat the unit while reporting data as it is already mentioned in the heading row**
- 6. Strictly fill the data in desired unit only. If it is reported in other unit, convert it in the desired unit**
- 7. Please mention only standard English names of crops (Do not mention Urd, Arhar, Til, Kulthi, Moong, Bajra, etc.)**
- 8. Additional relevant information may be provided at the end of Format by creating heading “Additional Information”**
- 9. Also read the instructions mentioned just below the table**
- 10. Your suggestions for improvement in the format for your simplicity as well as data compilation may be given at the end of the format**
- 11. Do not press any Enter Key in any of the columns while making entry in the columns of the table. Use only arrow key /Tab key/ mouse pointer while movement from one column/row to another.**
- 12. Gray colour cells in summary table need not to be filled.**

## REPORTING PERIOD – April 2011 to March, 2012

### Summary of achievements during the reporting period

| KVK Name | Activity  | Target             |                               | Achievement        |                               | Total value of resource generated/Fund received from diff. sources (Rs.) |
|----------|---|--------------------|-------------------------------|--------------------|-------------------------------|--|
|          |   | Number of activity | No. of farmers/ beneficiaries | Number of activity | No. of farmers/ beneficiaries |  |
| Kawardha | OFTs  | 06                 | 24                            | 06                 | 28                            |  |
| Kawardha | FLDs – Oilseeds (activity in ha)  | 05                 | 12                            | 05                 | 12                            |  |
| Kawardha | FLDs – Pulses (activity in ha)  | 10                 | 22                            | 10                 | 20                            |  |
| Kawardha | FLDs – Cotton (activity in ha)  |                    |                               |                    |                               |  |
| Kawardha | FLDs – Other than Oilseed and pulse crops(activity in ha)                           | 10                 | 12                            | 14                 | 32                            |  |
| Kawardha | FLDs – Other than Crops (activity in no. of Unit/Enter prise)                       |                    |                               |                    |                               |  |
| Kawardha | Training-Farmers and farm women   | 50                 | 1250                          | 41                 | 1348                          |  |
| Kawardha | Training-Rural youths   | 03                 | 60                            | 02                 | 43                            |  |
| Kawardha | Training- Extension functionaries   | 02                 | 50                            | 01                 | 37                            |  |
| Kawardha | Extension Activities  |                    |                               |                    |                               |  |
| Kawardha | Seed Production (Number of activity as seeds in quintal)                            | 150                |                               | 166                |                               | 425000   |
| Kawardha | Planting material ((Number of activity as quantity of planting material in quintal) |                    |                               |                    |                               |  |
| Kawardha | Seedling Production (Number of activity as number of seedlings in numbers)          |                    |                               |                    |                               |  |
| Kawardha | Sapling Production (Number of activity as number of sapling in numbers)             |                    |                               |                    |                               |  |
| Kawardha | Other Bio- products   |                    |                               |                    |                               |  |
| Kawardha | Live stock products   |                    |                               |                    |                               |  |
| Kawardha | SAC Meeting (Date & no. of core/official members                                    | 01                 | 25                            | 24, May, 2011      | 30                            |  |
| Kawardha | Newsletters (no.)   | 04                 | 4000                          | 03                 | 3000                          |  |
| Kawardha | Publication (Research papers, popular article)                                      | 00                 |                               | 03                 |                               |  |
| Kawardha | Convergence programmes / Sponsored programmes                                       |                    |                               | 02                 | 363                           |  |
| Kawardha | KVK-ATMA Linkage programme (Number of activities)                                   |                    |                               |                    |                               |  |
| Kawardha | Outreach of KVK in the District (No. of blocks, no. of villages)                    | 04                 | 1013                          | 04                 | 82                            |  |
| Kawardha | Soil sample tested  |                    |                               |                    |                               |  |
| Kawardha | Water sample tested   |                    |                               |                    |                               |  |
| Kawardha | KMA (No. of messages & beneficiaries)   |                    |                               | 34589              | 1189                          |  |

# 1. GENERAL INFORMATION

## 1.1. Staff Position (as on date)

| Name of KVK. | Sanctioned post              | Name of the incumbent | Discipline   | Highest degree | Subject of Specialization | Pay Scale (Rs.)         | Present basic (Rs.) | Date of joining | Permanent /Temporary     | Category (SC/ST/OBC/ Others) |
|--------------|------------------------------|-----------------------|--------------|----------------|---------------------------|-------------------------|---------------------|-----------------|--------------------------|------------------------------|
| Kawardha     | Programme Coordinator        | Dr. S. P. Singh       | Soil Science | Ph. D.         | Soil Chemistry            | 15600-39100 + 8000 AGP  | 31890               | 01.04.09        | Temporary (On Probation) | Others                       |
| Kawardha     | Subject Matter Specialist1   | Shri T. D. Sahu       | Soil Science | Ph. D.         | Soil Fertility            | 15600-39100 + 6000 AGP  | 24320               | 25.10.07        | Permanent                | OBC                          |
| Kawardha     | Subject Matter Specialist2   | Dr. S. P. Sharma      | Horticulture | Ph. D.         | Pomology                  | 15600-39100 + 6000 AGP  | 26360               | 25.03.09        | Permanent                | Others                       |
| Kawardha     | Subject Matter Specialist3   | Vacant                |              |                |                           |                         |                     |                 |                          |                              |
| Kawardha     | Subject Matter Specialist4   | Vacant                |              |                |                           |                         |                     |                 |                          |                              |
| Kawardha     | Subject Matter Specialist5   | Vacant                |              |                |                           |                         |                     |                 |                          |                              |
| Kawardha     | Subject Matter Specialist6   | Vacant                |              |                |                           |                         |                     |                 |                          |                              |
| Kawardha     | Programme Assistant          | Vacant                |              |                |                           |                         |                     |                 |                          |                              |
| Kawardha     | Farm Manager                 | Vacant                |              |                |                           |                         |                     |                 |                          |                              |
| Kawardha     | Computer Programmer          | Vacant                |              |                |                           |                         |                     |                 |                          |                              |
| Kawardha     | Accountant/ superintendent   | Shri A. K. Tiwari     |              | M. A.          |                           | 5200 – 20200 + 2800 AGP | 13700               | 28.07.10        | Permanent                | Others                       |
| Kawardha     | Stenographer                 | Vacant                |              |                |                           |                         |                     |                 |                          |                              |
| Kawardha     | Driver                       | Vacant                |              |                |                           |                         |                     |                 |                          |                              |
| Kawardha     | Driver                       | Vacant                |              |                |                           |                         |                     |                 |                          |                              |
| Kawardha     | Supporting staff (Messenger) | Smt. Jamuna Bai       |              | Primary        |                           | 4750 – 7400 + 1300 AGP  | 6630                | 16.09.08        | Temporary                | OBC                          |
| Kawardha     | Supporting staff (Watchman)  | Shri Shiv Kumar Lodhi |              | Primary        |                           | 4750 – 7400 + 1300 AGP  | 6630                | 16.09.08        | Temporary                | OBC                          |

## 1.2. DISTRICT PROFILE (detail of geographical area, cultivation, Land, resources, opportunities, irrigation, populations etc.)–

| Sr. No. | Particulars            | Quantity/Area |
|---------|------------------------|---------------|
| 1.      | Geographic Area        | 4.44 lac ha   |
| 2.      | Rainfall               | 850.70 mm     |
| 3.      | Forest Area            | 1.63 lac ha   |
| 4.      | Double Cropped Area    | 0.75 lac ha   |
| 5.      | <i>Kharif</i> Area     | 1.64 lac ha   |
| 6.      | <i>Rabi</i> Area       | 0.95 lac ha   |
| 7.      | Total Cultivated Area  | 2.59 lac ha   |
| 8.      | Net Cultivated Area    | 1.85 lac ha   |
| 9.      | Cropping Intensity     | 147 %         |
| 10.     | Barren Land            | 1.84 lac ha   |
| 11.     | Cultivable fallow land | 0.027 lac ha  |
| 12.     | Pasture lands          | 0.28 lac ha   |
| 13.     | Kharif Irrigated Area  | 0.39 lac ha   |
| 14.     | Rabi Irrigated Area    | 0.30 lac ha   |
| 15.     | Net Irrigated Area     | 0.69 lac ha   |

### 1.3. DETAILS OF ADOPTED VILLAGE during the reporting period (Approved by competent Authority in meetings/workshops)

| KVK Name | Village Name | Year of adoption | Block Name | Distance from KVK | Population | Number of farmers (having land in the village) |
|----------|--------------|------------------|------------|-------------------|------------|--|
| Kawardha | Dharampura   | 2010-11          | Kawardha   | 12 km             | 2399       | 680  |

### 1.4. THRUST AREAS identified by KVK (Approved by competent Authority in meetings/workshop)

| KVK Name | THRUST AREA  |
|----------|--|
| Kawardha | Varietal replacement in various crops  |
| Kawardha | Insect-pest, disease and weed management in critical crops and at critical growth stages |
| Kawardha | Balanced use of fertilizers, Integrated plant nutrient management system                 |
| Kawardha | Crop diversification in upland soils   |
| Kawardha | Value addition   |
| Kawardha | Adoption of soil and water conservation measures   |

### 1.4. PROBLEM IDENTIFIED by KVK (Approved by competent Authority in meetings/workshop)

| KVK Name | Problem identified  | Methods of problem identification    |
|----------|---|--------------------------------------|
| Kawardha | Lack of awareness of improved agricultural technologies   | Discussion with farmers, field visit |
| Kawardha | Non-availability of quality seeds of suitable HYVs  | Discussion with farmers              |
| Kawardha | Lack of suitable agricultural implements for seeding of crops   | Discussion with farmers, field visit |
| Kawardha | Lack of proper agricultural infrastructures including irrigation                                      | Discussion with farmers              |
| Kawardha | Non-awareness regarding effective control of various pests and diseases (insects, diseases and weeds) | Discussion with farmers              |
| Kawardha | Improper use of fertilizer and chemicals<br>High incidence of pests and diseases                      | Discussion with farmers, field visit |
| Kawardha | Non availability of inputs in time  | Discussion with farmers              |
| Kawardha | Less knowledge about post harvest handling of agriculture produce                                     | Discussion with farmers, field visit |

## 2. On Farm Testing

### 2.1 Information about OFT

| KVK name | Year/season  | Problem diagnose   | Category of technology (Assessment/Refinement) | Thematic Area                 | Crop/enterprise | Farming Situations | Title of OFT   | No. of trials | Results (with parameter) Grain/Seed//Fruit yield (q/ha) |              | Net Returns (Rs./ha) |        | Recommendations  |
|----------|--------------|--|--|-------------------------------|-----------------|--------------------|--|---------------|---|--------------|----------------------|--------|--|
|          |              |  |  |                               |                 |                    |  |               | Farmer practice T1                                      | Rec. Tech T2 | T1                   | T2     |  |
| Kawardha | Kharif, 2011 | Yield loss due to infestation of early and late blight of tomato | Assessment                                     | Integrated Disease Management | Tomato          | Irrigated midland  | Assessment of chemicals for control of Early and Late Blight of Tomato | 08            | 356.00  | 528.00       | 108000               | 188000 | two Spray of Mancozeb + Metalaxyl @ 2g/L of water at interval of 7 days<br><br>one spray of COC+Streptocycline @ 2g/L and 0.5g/L of water respectively |
| Kaward   |              |  |  | Integra                       |                 |                    |  | 02            | 300.00  | 800.00       |                      |        |  |



|          |              |  |            |                                |            |                   |   |    |       |       |       |        |   |
|----------|--------------|--|------------|--------------------------------|------------|-------------------|---|----|-------|-------|-------|--------|---|
| ha       | Kharif, 2011 | Yield loss due to infestation of Sigatoka disease of Banana                        | Assessment | Integrated Disease Management  | Banana     | Irrigated midland | Assessment of fungicide for control of Sigatoka disease of Banana |    |       |       | 88000 | 332000 | Three Spray of Mancozeb + Metalaxyl @ 2g/L of water at interval of 7 days             |
| Kawardha | Kharif, 2011 | low yield due to imbalanced fertilizer application and lack of knowledge about BGA | Assessment | Integrated Nutrient Management | Rice       | Rain fed, lowland | Assessment of BGA culture in rice productivity                    | 04 | 44.85 | 45.50 | 30284 | 33505  | BGA application @ 10kg/ha   |
| Kawardha | Kharif 2011  | More water requirement in transplanting, labour problem                            | Assessment | Integrated Crop Management     | Rice       | Rain fed, lowland | Assessment of SRI method of Rice cultivation                      | 04 | 49.88 | 55.65 | 35472 | 43817  | Transplanting of 14-15 days old seedlings in four corners of square having side 25 cm |
| Kawardha | Rabi 2011-12 | low yield due to use of local pea varieties  | Assessment | Varietal Evaluation            | Pea        | Irrigated midland | Assessment of HYV of Pea (Ambika)                                 | 04 | 7.50  | 10.25 |       |        | Use of High Yielding Variety of Pea (Ambika)  |
| Kawardha | Rabi 2011-12 | low yield due to use of local varieties  | Assessment | Varietal Evaluation            | Long Melon | Irrigated midland | Assessment of HYV of Long Melon (Nagini)                          | 06 |       |       |       |        | Use of High Yielding Variety of Long Melon (Nagini)                                   |

## 2.2 Economic Performance

| KVK name | OFT Title  | Parameters                 |        |        | Average Cost of cultivation (Rs/ha) |                      |  | Average Gross Return (Rs/ha) |                      |  | Average Net Return (Rs/ha) |                     |  | Benefit-Cost Ratio (Gross Return / Gross Cost) |                      |  |
|----------|--|----------------------------|--------|--------|-------------------------------------|----------------------|--|------------------------------|----------------------|--|----------------------------|---------------------|--|--|----------------------|--|
|          |  | Name and unit of Parameter | Demo   | Check  | FP (T <sub>1</sub> )                | RP (T <sub>2</sub> ) | Refined Practice, if any (T <sub>3</sub> ) | FP (T <sub>1</sub> )         | RP (T <sub>2</sub> ) | Refined Practice, if any (T <sub>3</sub> ) | FP (T <sub>1</sub> )       | RP(T <sub>2</sub> ) | Refined Practice, if any (T <sub>3</sub> ) | FP (T <sub>1</sub> )                           | RP (T <sub>2</sub> ) | Refined Practice, if any (T <sub>3</sub> ) |
| Kawardha | Assessment of chemicals for control of Early and Late Blight of Tomato | Fruit Yield (q/ha)         | 528.00 | 356.00 | 70000                               | 76000                |  | 178000                       | 264000               |  | 108000                     | 188000              |  | 2.54   | 3.47                 |  |
| Kawardha | Assessment of fungicide for control of Sigatoka disease of Banana      | Fruit Yield (q/ha)         | 800.00 | 300.00 | 62000                               | 68000                |  | 150000                       | 400000               |  | 88000                      | 332000              |  | 2.41   | 5.88                 |  |
| Kawardha | Assessment of BGA culture in rice productivity                         | Grain Yield (q/ha)         | 45.50  | 44.85  | 19500                               | 17000                |  | 497844                       | 50505                |  | 30284                      | 33505               |  | 2.55   | 2.97                 |  |
| Kawardha | Assessment of SRI method of rice cultivation                           | Grain Yield (q/ha)         | 55.65  | 49.88  | 19895                               | 17955                |  | 55367                        | 61772                |  | 35472                      | 43817               |  | 2.78   | 3.44                 |  |
| Kawardha | Assessment of HYV of Pea (Ambika)                                      | Seed Yield (q/ha)          | 10.25  | 7.50   | 7800                                | 9800                 |  | 18000                        | 24000                |  | 14300                      | 17800               |  | 2.31   | 2.51                 |  |
| Kawardha | Assessment of HYV of Long Melon (Nagini)                               | Fruit Yield (q/ha)         |        |        |                                     |                      |  |                              |                      |  |                            |                     |  |  |                      |  |

### 2.3 Feedback from KVK to Research System

| Name of KVK | Feedback   |
|-------------|--|
| Kawardha    | <p>Infestation of early and late blight of tomato is common in this area so research on suitable fungicides for control of these diseases be carried out subjected.</p> <p>Area of banana under drip system is increasing in this area. However, the plant is infested by diseases such as Sigatoka, so comparative evaluation of different fungicides for control of these diseases should be worked out.</p> <p>Improved varieties of cucurbits be tested in this area under different soil conditions.</p> <p>Rice is commonly cultivated under broadcasting systems. Comparative performance of SRI and Transplanting method be worked out.</p> <p>Use of organic sources of nutrient is limited in this area. So, research on effect of different organic sources such as green manures, poultry manures, BGA etc. should be carried out for this region</p> <p>Improved variety of Field Pea is performing well in the area, However, availability of seeds be insured through seed multiplication programme</p> |

### 3. Achievements of Frontline Demonstrations

#### 3.1. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated and popularized during previous years and recommended for large scale adoption in the district

| KVK Name | Crop/<br>Enterprise            | Thematic Area                  | Technology demonstrated  | Details of popularization<br>methods suggested to the<br>Extension system                                      | Horizontal spread of technology |                   |               |
|----------|--------------------------------|--------------------------------|--|--|---------------------------------|-------------------|---------------|
|          |                                |                                |  |  | No. of<br>villages              | No. of<br>farmers | Area in<br>ha |
| Kawardha | Niger (JNC-6)                  | Varietal Evaluation            | High Yielding Variety  | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of literatures. | 4                               | 68                | 136           |
| Kawardha | Chick pea (Vaibhav)            | Varietal Evaluation            | High Yielding Variety, seed treatment  | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of literatures. | 17                              | 159               | 465           |
| Kawardha | Linseed (Kartik)               | Varietal Evaluation            | High Yielding Variety  | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of literatures. | 7                               | 78                | 223           |
| Kawardha | Soybean (JS 93-05)             | Varietal Evaluation            | High Yielding Variety, seed treatment  | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of literatures. | 223                             | 323               | 1289          |
| Kawardha | Pigeon pea (Rajiv Lochan)      | Varietal Evaluation            | High Yielding Variety, seed treatment  | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of literatures. | 14                              | 141               | 412           |
| Kawardha | Chick pea (JG-74)              | Varietal Evaluation            | High Yielding Variety, seed treatment  | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of literatures. | 18                              | 179               | 562           |
| Kawardha | Linseed (Kartik)               | Varietal Evaluation            | High Yielding Variety  | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of literatures. | 9                               | 101               | 135           |
| Kawardha | Soybean (N:P:K 20:60:20 Kg/ha) | Integrated Nutrient Management | Balanced use of fertilizers, Treatment with fungicide & Rhizobium culture in soybean | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of              | 3                               | 24                | 108           |

|          |                    |                     |                  |  |   |    |     |
|----------|--------------------|---------------------|------------------|--|---|----|-----|
|          |                    |                     |                  | literatures.   |   |    |     |
| Kawardha | Pigeon pea (Asha)  | Varietal Evaluation | Improved variety | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of literatures. | 5 | 35 | 152 |
| Kawardha | Chick pea (Vishal) | Varietal Evaluation | Improved variety | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of literatures. | 6 | 39 | 165 |
| Kawardha | Wheat (GW-273)     | Varietal Evaluation | Improved variety | Visit of other farmers in the Demonstration plots, Discussion with other farmers, Distribution of literatures. | 3 | 21 | 102 |

### 3.2 Details of FLDs implemented

| KVK Name | Thematic area                  | Name of Crop/ Enterprise | Season and year | Technology demonstrated                           | Crop-Area (ha) / Entrep - No. | Name of Variety/Tech nology/Entrep rizes | Results (q/ha) |       | % change | No. of farmers |    |     |        |       |
|----------|--------------------------------|--------------------------|-----------------|---|-------------------------------|--|----------------|-------|----------|----------------|----|-----|--------|-------|
|          |                                |                          |                 |   |                               |  | Demons         | Check |          | SC             | ST | OBC | Others | Total |
| Kawardha | Integrated Nutrient Management | Soybean                  | Kharif , 2011   | Balanced use of fertilizers in soybean (JS 93-05) | 5                             | N:P:K 20:60:20 Kg/ha, (JS-93-05)         | 18.35          | 12.25 | 49.79    | 00             | 00 | 12  | 00     | 12    |
| Kawardha | Varietal Evaluation            | Pigeon pea               | Kharif , 2011   | Improved variety                                  | 5                             | Asha                                     | 18.68          | 13.32 | 40.24    | 00             | 00 | 11  | 00     | 11    |
| Kawardha | Varietal Evaluation            | Rice                     | Kharif , 2011   | Improved variety                                  | 5                             | Karma Mahsuri                            | 52.18          | 43.36 | 20.34    | 00             | 00 | 08  | 02     | 10    |
| Kawardha | Farm machineries               | Rice                     | Kharif , 2011   | Direct Seeding method                             | 4                             | Direct Seeding by Seed Drill             | 45.62          | 38.56 | 18.31    | 00             | 06 | 04  | 00     | 10    |
| Kawardha | Varietal Evaluation            | Chick pea                | Rabi 2011-12    | Improved variety                                  | 5                             | JG -74                                   | 15.86          | 11.56 | 37.19    | 00             | 00 | 09  | 00     | 09    |
| Kawardha | Varietal Evaluation            | Wheat                    | Rabi 2011-12    | Improved variety                                  | 5                             | GW- 273                                  | 42.52          | 33.85 | 25.61    | 00             | 00 | 11  | 01     | 12    |

### 3.3 Economic Impact of FLD

| KVK Name | Name of Crop/ Enterprise | Technology demonstrated                           | Parameters                 |       |       | Cost of cultivation (Rs/ha) |       | Gross Return (Rs/ha) |       | Average Net Return (Rs/ha) |       | Benefit-Cost Ratio (Gross Return/ Gross Cost) |             |
|----------|--------------------------|---|----------------------------|-------|-------|-----------------------------|-------|----------------------|-------|----------------------------|-------|---|-------------|
|          |                          |   | Name and unit of Parameter | Demo  | Check | Demo                        | Check | Demo                 | Check | Demo                       | Check | Demo  | Local Check |
| Kawardha | Soybean                  | Balanced use of fertilizers, N:P:K 20:60:20 Kg/ha | Seed Yield (q/ha)          | 18.35 | 12.25 | 16160                       | 12350 | 47710                | 34450 | 31550                      | 22100 | 2.95  | 2.79        |
| Kawardha | Pigeon pea               | Improved variety                                  | Seed Yield (q/ha)          | 18.68 | 13.32 | 19220                       | 14530 | 59778                | 42624 | 40558                      | 28094 | 3.11  | 2.93        |
| Kawardha | Rice                     | Improved variety                                  | Grain Yield (q/ha)         | 52.18 | 43.36 | 19630                       | 18890 | 57920                | 48130 | 38290                      | 29240 | 2.95  | 2.55        |
| Kawardha | Rice                     | Direct Seeding method                             | Grain Yield (q/ha)         | 45.62 | 38.56 | 18435                       | 17050 | 50638                | 42802 | 32203                      | 25752 | 2.74  | 2.51        |
| Kawardha | Chick pea                | Improved variety                                  | Seed Yield (q/ha)          | 15.86 | 11.56 | 14580                       | 12630 | 49166                | 35836 | 34586                      | 23206 | 3.37  | 2.84        |
| Kawardha | Wheat                    | Improved variety                                  | Grain Yield (q/ha)         | 42.52 | 33.85 | 15850                       | 13260 | 46772                | 37235 | 30922                      | 23975 | 2.95  | 2.80        |

### 3.4 Feedback of the Farmers

| Name of KVK | Feedback   |
|-------------|--|
| Kawardha    | <p>Varieties under FLD gave good yields and they may be spread to other villages.</p> <p>Seeds of these varieties should be made available through C.G.Rajya Beej Evam Krishi Vikas Nigam Lt.d, Kawardha</p> <p>Balanced use of fertilizers increases the yield as well as net returns.</p> <p>Proper time and method of fertilizer application has helped them save the fertilizer and from attack of insects pest</p> <p>Direct seeding of rice reduced the cost of cultivation compared to transplanting and resulted in more net returns.</p> <p>Field visit of scientist of KVK, help them in identification of the insect or disease infestation and also give knowledge about their control measures.</p> |

### 3.5 Training and Extension activities under FLD

| KVK Name | Crop       | Activity                             | No. of activities organized | Number of participants | Remarks |
|----------|------------|--------------------------------------|-----------------------------|------------------------|---------|
| Kawardha | Soybean    | Field days                           | 1                           | 41                     |         |
|          |            | Farmers Training                     | 5                           | 95                     |         |
|          |            | Media coverage                       | 1                           | 57                     |         |
|          |            | Training for extension functionaries |                             |                        |         |
| Kawardha | Pigeon pea | Field days                           | 1                           | 32                     |         |
|          |            | Farmers Training                     | 2                           | 23                     |         |
|          |            | Media coverage                       | 1                           | 62                     |         |
|          |            | Training for extension functionaries |                             |                        |         |
| Kawardha | Rice       | Field days                           | 1                           | 35                     |         |
|          |            | Farmers Training                     | 6                           | 123                    |         |
|          |            | Media coverage                       | 1                           | 46                     |         |
|          |            | Training for extension functionaries |                             |                        |         |
| Kawardha | Chick pea  | Field days                           | 1                           | 37                     |         |
|          |            | Farmers Training                     | 5                           | 104                    |         |
|          |            | Media coverage                       | 1                           | 59                     |         |
|          |            | Training for extension functionaries |                             |                        |         |
| Kawardha | Wheat      | Field days                           | 1                           | 31                     |         |
|          |            | Farmers Training                     | 2                           | 39                     |         |
|          |            | Media coverage                       | 1                           | 44                     |         |
|          |            | Training for extension functionaries |                             |                        |         |

### 4. Documentation of the need assessment conducted by the KVK for the training programme

| Name of KVK | Category of the training | Methods of need assessment                          | Date and place  | No. Of participants involved       |
|-------------|--------------------------|---|---|------------------------------------|
| Kawardha    | Farmers & Farm women     | Field visits, Group discussion with the farmers     | 16.05.2011- Newurgaon Khurd,<br>28.05.2011- Bhedali, 09.06.2011- Amlidih,<br>22.08.2011- Lalpur, 16.09.11- Kothar | 46, 24, 33, 21, 33<br>respectively |
| Kawardha    | Rural Youth              | Discussion with youths in village                   | 06.06.2011, Kawardha  | 11                                 |
| Kawardha    | In-service Personnel     | Discussion with extension personnel in the meetings | 13.07.2011, Kawardha  | 09                                 |
|             |                          |   |   |                                    |

## Abbreviation Used

|                                    |   |
|------------------------------------|---|
| FW                                 | (A) Farmers & Farm Women                    |
| RY                                 | (B) Rural Youths                            |
| IS                                 | (C) Extension Personnel                     |
| ONC                                | On Campus Training Programme                |
| OFC                                | Off Campus Training Programme               |
| M                                  | Male  |
| F                                  | Female                                      |
| T                                  | Total                                       |
| <b>Thematic Areas for Training</b> |   |
| CRP                                | Crop Production                             |
| HOV                                | Horticulture – Vegetable Crops              |
| HOF                                | Horticulture-Fruits                         |
| HOO                                | Horticulture- Ornamental Plants             |
| HOP                                | Horticulture- Plantation crops              |
| HOT                                | Horticulture- Tuber crops                   |
| HOS                                | Horticulture- Spices                        |
| HOM                                | Horticulture- Medicinal and Aromatic Plants |
| SFM                                | Soil Health and Fertility Management        |
| LPM                                | Livestock Production and Management         |
| WOE                                | Home Science/Women empowerment              |
| AEG                                | Agril. Engineering                          |
| PLP                                | Plant Protection                            |
| FIS                                | Fisheries                                   |
| PIS                                | Production of Inputs at site                |
| CBD                                | Capacity Building and Group Dynamics        |
| AGF                                | Agro-forestry                               |
| OTH                                | Others                                      |
| RYH                                | Rural Youth                                 |
| EXP                                | Extension Personnel                         |



## 5. TRAINING PROGRAMMES

1. Training programmes should be strictly covered under above mentioned thematic areas only,
2. For category, training type and thematic area, mention code/abbreviations only

**Table 5.1.** Details of Training programmes conducted by the KVKs

| Name of KVK | Category | Training Type | Thematic area | Training Title                                   | No. of Courses | Duration (Days) | Participants |    |    |    |    |    |        |    |
|-------------|----------|---------------|---------------|--|----------------|-----------------|--------------|----|----|----|----|----|--------|----|
|             |          |               |               |  |                |                 | General      |    | SC |    | ST |    | Others |    |
|             |          |               |               |  |                |                 | M            | F  | M  | F  | M  | F  | M      | F  |
| 1           | 2        | 3             | 4             | 5  | 7              | 8               | 9            | 10 | 11 | 12 | 13 | 14 |        |    |
| Kawardha    | FW       | OFC           | CRP           | Improved production technology of Pigeon Pea     | 1              | 1               | 01           | 00 | 00 | 00 | 00 | 00 | 23     | 00 |
| Kawardha    | FW       | OFC           | CRP           | SRI method of Rice cultivation                   | 1              | 1               | 00           | 00 | 00 | 00 | 01 | 00 | 19     | 00 |
| Kawardha    | FW       | OFC           | CRP           | Improved cultivation technology of Rice          | 1              | 1               | 00           | 00 | 72 | 00 | 00 | 00 | 00     | 00 |
| Kawardha    | FW       | OFC           | CRP           | Seed production technology of gram               | 1              | 1               | 01           | 00 | 00 | 00 | 02 | 00 | 23     | 00 |
| Kawardha    | FW       | OFC           | CRP           | Use of growth hormones in Gram                   | 1              | 1               | 01           | 00 | 02 | 00 | 00 | 00 | 22     | 00 |
| Kawardha    | FW       | OFC           | CRP           | Nutrient management in wheat crop                | 1              | 1               | 00           | 00 | 00 | 00 | 00 | 00 | 34     | 00 |
| Kawardha    | FW       | OFC           | CRP           | Improved production technology of Sugarcane      | 1              | 1               | 00           | 00 | 00 | 00 | 02 | 00 | 27     | 00 |
| Kawardha    | FW       | OFC           | HOV           | Production technique of tomato                   | 1              | 1               | 00           | 00 | 00 | 00 | 01 | 00 | 23     | 00 |
| Kawardha    | FW       | OFC           | HOV           | Nursery management of vegetable crops            | 1              | 1               | 00           | 00 | 05 | 00 | 04 | 00 | 20     | 00 |
| Kawardha    | FW       | OFC           | HOF           | Management of fruit crops                        | 1              | 1               | 01           | 00 | 01 | 00 | 09 | 00 | 17     | 00 |
| Kawardha    | FW       | OFC           | SFM           | Balanced fertilizer use in Soybean               | 1              | 1               | 00           | 00 | 06 | 00 | 00 | 00 | 13     | 06 |
| Kawardha    | FW       | OFC           | SFM           | Balanced manure and fertilizer application       | 1              | 1               | 00           | 00 | 03 | 00 | 02 | 00 | 28     | 00 |
| Kawardha    | FW       | OFC           | SFM           | Importance and use of organic manures            | 1              | 1               | 01           | 00 | 00 | 00 | 00 | 00 | 31     | 00 |
| Kawardha    | FW       | OFC           | SFM           | Methodology for collection of soil sample        | 1              | 1               | 00           | 00 | 20 | 00 | 40 | 00 | 24     | 00 |
| Kawardha    | FW       | OFC           | FIS           | Fishing – a source of employment to rural youths | 1              | 1               | 03           | 00 | 08 | 00 | 03 | 00 | 10     | 00 |
| Kawardha    | FW       | OFC           | PLP           | Management of wilt disease in pulse crops        | 1              | 1               | 01           | 00 | 05 | 00 | 05 | 00 | 37     | 00 |
| Kawardha    | FW       | OFC           | PLP           | Management of insects of Soybean                 | 1              | 1               | 00           | 00 | 01 | 00 | 02 | 00 | 26     | 00 |
| Kawardha    | FW       | OFC           | PLP           | Management of diseases of Soybean and Rice       | 1              | 1               | 00           | 00 | 00 | 00 | 00 | 00 | 33     | 00 |
| Kawardha    | FW       | OFC           | PLP           | Management of insects and diseases of tomato     | 1              | 1               | 00           | 00 | 00 | 00 | 15 | 00 | 11     | 00 |
| Kawardha    | FW       | OFC           | PLP           | Management of diseases of                        | 1              | 1               | 00           | 00 | 00 | 00 | 02 | 00 | 19     | 00 |

| Name of KVK | Category | Training Type | Thematic area | Training Title                                    | No. of Courses | Duration (Days) | Participants |    |    |    |    |    |        |    |
|-------------|----------|---------------|---------------|---|----------------|-----------------|--------------|----|----|----|----|----|--------|----|
|             |          |               |               |   |                |                 | General      |    | SC |    | ST |    | Others |    |
|             |          |               |               |   |                |                 | M            | F  | M  | F  | M  | F  | M      | F  |
| 1           | 2        | 3             | 4             | 5   | 7              | 8               | 9            | 10 | 11 | 12 | 13 | 14 |        |    |
|             |          |               |               | vegetable crops                                   |                |                 |              |    |    |    |    |    |        |    |
| Kawardha    | FW       | OFC           | PLP           | Management of fungal diseases of kharif crops     | 1              | 1               | 02           | 00 | 00 | 00 | 00 | 00 | 33     | 00 |
| Kawardha    | FW       | OFC           | PLP           | Management of insects of vegetable crops          | 1              | 1               | 00           | 00 | 00 | 00 | 01 | 00 | 16     | 00 |
| Kawardha    | FW       | OFC           | PLP           | Management of wilt disease in gram crop           | 1              | 1               | 00           | 00 | 00 | 00 | 18 | 00 | 04     | 00 |
| Kawardha    | FW       | OFC           | PLP           | Management of diseases of gram                    | 1              | 1               | 00           | 00 | 00 | 00 | 03 | 00 | 16     | 00 |
| Kawardha    | FW       | OFC           | PLP           | Management of insects – pests of gram             | 1              | 1               | 00           | 00 | 08 | 00 | 01 | 00 | 18     | 00 |
| Kawardha    | FW       | OFC           | PLP           | Management of insects and diseases of gram        | 1              | 1               | 00           | 00 | 00 | 00 | 00 | 00 | 28     | 00 |
| Kawardha    | RY       | ONC           | HOF           | Preparation of Jam and Jelly                      | 1              | 1               | 01           | 00 | 04 | 02 | 00 | 01 | 05     | 04 |
| Kawardha    | RY       | ONC           | PIS           | Mushroom production technology                    | 1              | 1               | 03           | 00 | 04 | 00 | 03 | 02 | 10     | 00 |
| Kawardha    | IS       | ONC           | PLP           | Insects and disease management in different crops | 1              | 1               | 04           | 00 | 06 | 00 | 09 | 00 | 16     | 00 |

**Table 5.2.** Details of Vocational training programmes for Rural Youth conducted by the KVKs

| Name of KVK | Training title                         | Crop/Enterprise   | Identified Thrust Area   | Duration of training (days) | Number of Beneficiaries |    |    |    |        |    |
|-------------|--|-------------------|--|-----------------------------|-------------------------|----|----|----|--------|----|
|             |  |                   |  |                             | SC                      |    | ST |    | Others |    |
|             |  |                   |  |                             | M                       | F  | M  | F  | M      | F  |
| Kawardha    | Preparation of tomato ketchup          | Tomato processing | Income Generation, prevent loss of tomato  | 01                          | 04                      | 02 | 06 | 01 | 05     | 02 |
| Kawardha    | Testing of soil using Soil Testing Kit | Soil Testing      | Income Generation, Application of manures and fertilizers on the basis of soil testing | 01                          | 06                      | 00 | 08 | 00 | 10     | 00 |

**Table 5.3.** Details of training programme conducted for livelihood security in rural areas by the KVKs

| Name of KVK | Training title | Self employed after training |                 |                            | Number of persons employed elsewhere |
|-------------|----------------|------------------------------|-----------------|----------------------------|--------------------------------------|
|             |                | Type of units                | Number of units | Number of persons employed |                                      |
| Kawardha    |                |                              |                 |                            |                                      |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

**Table 5.4. Sponsored Training Programmes**

| Name of KVK | Title   | Thematic area (as given in abbreviation table) | Sub-theme (as per column no 5 of Table TI) | Client (FW/RV/IS) | Duration (days) | No. of courses | No. of Participants |    |    |    |    |    | Sponsoring Agency                    | Fund received for training (Rs.) |
|-------------|---|--|--|-------------------|-----------------|----------------|---------------------|----|----|----|----|----|--------------------------------------|----------------------------------|
|             |   |  |  |                   |                 |                | Others              |    | SC |    | ST |    |                                      |                                  |
|             |   |  |  |                   |                 |                | M                   | F  | M  | F  | M  | F  |                                      |                                  |
| Kawardha    | Improved production technology of Soybean                                 | Crop Production                                | Integrated Crop Management                 | FW                | 01              | 01             | 30                  | 00 | 02 | 00 | 01 | 00 | Dept. of Ag. (ATMA)                  |                                  |
| Kawardha    | Importance and use of organic manures                                     | Soil Health & Fertility Management             | Soil Fertility Management                  | FW                | 01              | 01             | 15                  | 00 | 03 | 00 | 03 | 00 | Dept. of Ag.                         |                                  |
| Kawardha    | Management of insects in Paddy crop                                       | Plant Protection                               | Integrated Pest management                 | FW                | 01              | 01             | 14                  | 00 | 00 | 00 | 02 | 00 | Dept. of Ag.                         |                                  |
| Kawardha    | Management of insects in soybean crop                                     | Plant Protection                               | Integrated Pest management                 | FW                | 01              | 01             | 14                  | 00 | 00 | 00 | 01 | 00 | Dept. of Ag.                         |                                  |
| Kawardha    | Improved production technology of Paddy                                   | Crop Production                                | Integrated Crop Management                 | FW                | 01              | 01             | 14                  | 00 | 01 | 00 | 12 | 00 | Dept. of Ag.                         |                                  |
| Kawardha    | Management of insects in soybean crop                                     | Plant Protection                               | Integrated Pest management                 | FW                | 01              | 01             | 09                  | 00 | 05 | 00 | 00 | 00 | Dept. of Ag.                         |                                  |
| Kawardha    | Post harvest management of crops in storage cell/ godowns                 | Plant Protection                               | Integrated Pest management                 | FW                | 02              | 06             | 26                  | 00 | 04 | 00 | 02 | 00 | Central Ware House, Raipur           |                                  |
| Kawardha    | Improved production technology of chick pea                               | Crop Production                                | Integrated Crop Management                 | FW                | 01              | 01             | 16                  | 00 | 03 | 00 | 00 | 00 | Dept. of Ag.                         |                                  |
| Kawardha    | Importance and use of organic manures/bio fertilizers                     | Soil Health & Fertility Management             | Soil Fertility Management                  | FW                | 01              | 01             | 26                  | 00 | 01 | 00 | 00 | 00 | Dept. of Ag.                         |                                  |
| Kawardha    | Methodology of using bio fertilizers                                      | Soil Health & Fertility Management             | Soil Fertility Management                  | FW                | 01              | 01             | 26                  | 00 | 01 | 00 | 00 | 00 | Dept. of Ag.                         |                                  |
| Kawardha    | Seed treatment of pulse crops   | Plant Protection                               | Integrated Disease Management              | FW                | 01              | 01             | 21                  | 00 | 05 | 00 | 11 | 00 | Dept. of Ag.                         |                                  |
| Kawardha    | Water management in wheat crop  | Crop Production                                | Integrated Crop Management                 | FW                | 01              | 01             | 18                  | 00 | 00 | 00 | 02 | 00 | Dept. of Ag.                         |                                  |
| Kawardha    | Farmers awareness programme for planning of crops as per changing climate | Crop Production                                | Integrated Crop Management                 | FW                | 01              | 01             | 12                  | 00 | 28 | 02 | 12 | 00 | Dept. of Agrometeorology under NICRA |                                  |

|          |   |                              |                          |    |    |    |    |    |    |    |    |    |                                      |
|----------|---|------------------------------|--------------------------|----|----|----|----|----|----|----|----|----|--------------------------------------|
| Kawardha | Methodology of preparation of Vermi compost | Production of inputs at site | Vermi compost production | FW | 01 | 01 | 16 | 00 | 16 | 00 | 00 | 00 | Dept. of Agrometeorology under NICRA |
|----------|---|------------------------------|--------------------------|----|----|----|----|----|----|----|----|----|--------------------------------------|

**Table 5.5 Training Programmes for Panchayatiraj Institutions Office-bearers & members**

| Name of KVK | Title | Thematic area (as given in abbreviation table) | Sub-theme (as per column no 5 of Table T1) | Client (FW/RY/IS) | Duration (days) | No. of courses | No. of Participants |   |    |   |    |   | Sponsoring Agency | Fund received for training (Rs.) |
|-------------|-------|--|--|-------------------|-----------------|----------------|---------------------|---|----|---|----|---|-------------------|----------------------------------|
|             |       |  |  |                   |                 |                | Others              |   | SC |   | ST |   |                   |                                  |
|             |       |  |  |                   |                 |                | M                   | F | M  | F | M  | F |                   |                                  |
| Kawardha    |       |  |  |                   |                 |                |                     |   |    |   |    |   |                   |                                  |
|             |       |  |  |                   |                 |                |                     |   |    |   |    |   |                   |                                  |

**Table 5.6 Evaluation/Follow up & Impact of the training programmes conducted by the KVK (all types of trainings)**

| Name of KVK | Title of the training                     | No. of trainees | Change in knowledge (Score) |       | Change in Production (q/ha) |       | Change in Income (Rs) |       | Impact on<br>1. Area expanded (ha)<br>2. No. of farmers adopted (no.)<br>3. % change in knowledge, production & Income |
|-------------|---|-----------------|-----------------------------|-------|-----------------------------|-------|-----------------------|-------|--|
|             |   |                 | Before                      | After | Before                      | After | Before                | After |  |
| Kawardha    | Method of preparation of jam & Jelly      | 15              | 25                          | 70    |                             |       |                       |       | 3 person adopted, 70% knowledge increased, Rs. 2500 extra income   |
| Kawardha    | Mushroom Production                       | 39              | 14                          | 82    |                             |       |                       |       | 15 person adopted, 82 % knowledge increased, Rs. 1800 extra income   |
| Kawardha    | Seed production of Soybean                | 32              | 35                          | 86    | 10                          | 21    | 22000                 | 42450 | 215 ha, 25 person adopted, 89% knowledge increased.  |
| Kawardha    | Vermiculture                              | 26              | 10                          | 75    |                             |       |                       |       | 5 person adopted, 79 % knowledge increased, Rs one lac extra income  |
| Kawardha    | Nursery Management of Horticultural crops | 27              | 35                          | 85    |                             |       |                       |       | 13 person adopted, 88 % knowledge increased, Rs 25000 extra income   |

## 6. EXTENSION ACTIVITIES

| Name of the KVK | Activity                               | No. of activities (Targeted) | No. of activities (Achieved) | Detail of Participants |    |                 |    |                     |    | Remarks   |  |   |
|-----------------|--|------------------------------|------------------------------|------------------------|----|-----------------|----|---------------------|----|---|--|---|
|                 |  |                              |                              | Farmers (Others)       |    | SC/ST (Farmers) |    | Extension Officials |    | Purpose   | Topic s  | Crop Stages                                   |
|                 |  |                              |                              | M                      | F  | M               | F  | M                   | F  |   |  |   |
| Kawardha        | Field Day                              | 06                           | 06                           | 67                     | 00 | 56              | 00 | 08                  | 00 | To tell the farmers & RAEOs about cultivation of crops and management of insects and diseases   | Improved technique of cultivating soybean, rice, pigeon pea , chick pea, Wheat, long melon and management of insects and pests in respective crops | Early and mid growth stages of the said crops |
| Kawardha        | Kisan Mela                             | 01                           | 01                           | 49                     | 00 | 01              | 00 | 00                  | 00 | To let the farmers of the district know about New Ag. Technology, to visit the research farm  | -  | -   |
| Kawardha        | Kisan Ghosthi                          | 00                           | 00                           | 00                     | 00 | 00              | 00 | 00                  | 00 | -   | -  | -   |
| Kawardha        | Exhibition                             | 01                           | 01                           | 27                     | 02 | 94              | 69 | 01                  | 00 | To demonstrate cultivation technology of chick pea, To tell the farmers about the performance of FLD under TSP, to distribute farmers storage bins and sprayers | Improved cultivation technology of chick pea, management of wilt disease in pulse crops, safe storage of chick pea                                 | Harvestin g of gram                           |
| Kawardha        | Film Show                              | 00                           | 00                           | 00                     | 00 | 00              | 00 | 00                  | 00 | -   | -  | -   |
| Kawardha        | Method Demonstrations                  | 03                           | 03                           | 45                     | 05 | 17              | 08 | 03                  | 00 | Seed sowing by Seed Drill, Planting System of fruit crops, Soil sampling  | -  | -   |
| Kawardha        | Farmers Seminar                        | 00                           | 00                           | 00                     | 00 | 00              | 00 | 00                  | 00 | -   | -  | -   |
| Kawardha        | Workshop                               | 00                           | 00                           | 00                     | 00 | 00              | 00 | 00                  | 00 | -   | -  | -   |
| Kawardha        | Group meetings                         | 00                           | 05                           | 85                     | 07 | 54              | 11 | 05                  | 00 | To know about the need assessment for trainings   | -  |   |
| Kawardha        | Lectures delivered as resource persons | 00                           | 21                           | 202                    | 34 | 96              | 13 | 17                  | 00 | To tell about cultivation practices of crops, to solvet seasonal problems related to insect/pests & diseases of crops   | Many   | Different crop stages                         |
| Kawardha        | Newspaper coverage                     | 00                           | 19                           | -                      | -  | -               | -  | -                   | -  | Seasonal probles, their remedy and KVK activities   |  | All crop stages                               |
| Kawardha        | Radio talks                            | 00                           | 02                           |                        |    |                 |    |                     |    | Organic Farming, Biofertilizer, Soil Testing  |  |   |
| Kawardha        | TV talks                               |                              |                              |                        |    |                 |    |                     |    |   |  |   |
| Kawardha        | Popular articles                       |                              |                              |                        |    |                 |    |                     |    |   |  |   |
| Kawardha        | Extension Literature                   | 00                           | 06                           |                        |    |                 |    |                     |    | To help farmers about cultivation of soybean,   |  |   |

| Name of the KVK | Activity                           | No. of activities (Targeted) | No. of activities (Achieved) | Detail of Participants |    |                 |    |                     |    | Remarks   |         |             |
|-----------------|------------------------------------|------------------------------|------------------------------|------------------------|----|-----------------|----|---------------------|----|---|---------|-------------|
|                 |                                    |                              |                              | Farmers (Others)       |    | SC/ST (Farmers) |    | Extension Officials |    | Purpose   | Topic s | Crop Stages |
|                 |                                    |                              |                              | M                      | F  | M               | F  | M                   | F  |   |         |             |
|                 |                                    |                              |                              |                        |    |                 |    |                     |    | chickpea, onion, garlic, bitter gourd, and soil sampling  |         |             |
| Kawardha        | Farm advisory Services             |                              |                              |                        |    |                 |    |                     |    |   |         |             |
| Kawardha        | Scientific visit to farmers field  | 00                           | 17                           | 102                    | 05 | 73              | 03 | 04                  | 00 | seasonal problems related to insect/pests & diseases of crops   |         |             |
| Kawardha        | Farmers visit to KVK               | 00                           | 97                           | 147                    | 09 | 51              | 06 | 00                  | 00 | to enquire about cultivation practices of crops, source & availability of seeds, problems related to insect/pests & diseases of crops |         |             |
| Kawardha        | Diagnostic visits                  | 00                           | 02                           | 59                     | 05 | 39              | 03 | 03                  | 00 | Attack of tobacco caterpillar in soybean, Sigatoka disease in banana  |         |             |
| Kawardha        | Exposure visits                    |                              |                              |                        |    |                 |    |                     |    |   |         |             |
| Kawardha        | Ex-trainees Sammelan               |                              |                              |                        |    |                 |    |                     |    |   |         |             |
| Kawardha        | Soil health Camp                   |                              |                              |                        |    |                 |    |                     |    |   |         |             |
| Kawardha        | Animal Health Camp                 |                              |                              |                        |    |                 |    |                     |    |   |         |             |
| Kawardha        | Agri mobile clinic                 |                              |                              |                        |    |                 |    |                     |    |   |         |             |
| Kawardha        | Soil test campaigns                |                              |                              |                        |    |                 |    |                     |    |   |         |             |
| Kawardha        | Farm Science Club conveners meet   |                              |                              |                        |    |                 |    |                     |    |   |         |             |
| Kawardha        | Self Help Group conveners meetings |                              |                              |                        |    |                 |    |                     |    |   |         |             |
| Kawardha        | Mahila Mandals conveners meetings  |                              |                              |                        |    |                 |    |                     |    |   |         |             |
| Kawardha        | Celebration of important days      |                              |                              |                        |    |                 |    |                     |    |   |         |             |

## 7. Literature Developed/Published (with full title, author & reference)

### 7.1 KVK Newsletters

| KVK Name | Date of start               | Periodicity | Number of copies printed | Number of copies distributed |
|----------|-----------------------------|-------------|--------------------------|------------------------------|
| Kawardha | 1 <sup>st</sup> April, 2011 | Quarterly   | 3000                     | 2568                         |
|          |                             |             |                          |                              |

### 7.2 Literature developed/published

| KVK Name | Date of start | Periodicity                       | Number of copies printed                                     | Number of copies distributed |
|----------|---------------|-----------------------------------|--|------------------------------|
| KVK Name | Type          | Title                             | Author's name  | Number of copies             |
| Kawardha | Bulletin      | 'Chana Utpadan Ki Unnat Taknik'   | 1000, Dr. S. P. Singh , Dr. T.D. Sahu ,<br>Dr. S. P. Sharma, | 869                          |
| Kawardha | Bulletin      | 'Soybean Utpadan Ki Unnat Taknik' | 1000, Dr. S. P. Singh , Dr. T.D. Sahu ,<br>Dr. S. P. Sharma, | 875                          |
| Kawardha | Bulletin      | 'Pyaj ki Unaat Kheti'             | 1000, Dr. S. P. Sharma, Dr. S. P. Singh ,<br>Dr. T.D. Sahu , | 789                          |
| Kawardha | Bulletin      | 'Lahsoon ki Unaat Kheti'          | 1000, Dr. S. P. Sharma, Dr. S. P. Singh ,<br>Dr. T.D. Sahu , | 803                          |
| Kawardha | Bulletin      | 'Karele ki Kheti'                 | 1000, Dr. S. P. Sharma, Dr. S. P. Singh ,<br>Dr. T.D. Sahu , | 845                          |
| Kawardha | Bulletin      | 'Kenchua Khad Utpadan Taknik'     | 1000, Dr. T.D. Sahu, Dr. S. P. Singh ,<br>Dr. S. P. Sharma,  | 901                          |

### 7.3 Details of Electronic Media Produced

| KVK Name | Type of media (CD / VCD / DVD / Audio-Cassette) | Title of the programme | Number |
|----------|---|------------------------|--------|
| Kawardha |   |                        |        |
|          |   |                        |        |
|          |   |                        |        |

## 8. Production and supply of Technological products

### 8.1 SEED production

| KVK Name | Major group/class | Crop       | Variety | Type of produce (for Seed produced type hear SD; For Planting Material type here PM) | Quantity | Unit for quantity of produces (qtl for SD and Nos for PM) | Value (Rs.) | Provided to No. of Farmers   |
|----------|-------------------|------------|---------|--|----------|---|-------------|--|
| Kawardha | Oilseed           | Soybean    | JS- 335 | SD   | 82.00    | Qtl.  | 205000      | Raw seed transferred to C.G. Rajya Beej Evam Krishi Vikas Nigam Ltd. Kawardha & Incharge, National Seed Project, IGKV, Raipur (C.G.) |
| Kawardha | Pulses            | Black gram | TU 94-2 | SD   | 10.20    | Qtl.  | 45900       | Raw seed transferred to Incharge, National Seed Project, IGKV, Raipur (C.G.)   |
| Kawardha | Pulses            | Chick pea  | Vaibhav | SD   | 74.00    | Qtl.  | 229400      | Raw seed transferred to C.G. Rajya Beej Evam Krishi Vikas Nigam Ltd. Kawardha  |
|          |                   |            |         |  |          |   |             |  |

### 8.2 Planting Material production

| KVK Name | Major group/class | Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production |                 |      | Amount (Rs.)   |              | Remarks |
|----------|-------------------|------------------|----------------|-----------------|-----------|-----------------------|-----------------|------|----------------|--------------|---------|
|          |                   |                  |                |                 |           | Variety               | Type of Produce | Qty. | Cost of inputs | Gross income |         |
| Kawardha |                   |                  |                |                 |           |                       |                 |      |                |              |         |
|          |                   |                  |                |                 |           |                       |                 |      |                |              |         |

### 8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.)

| KVK Name | Name of the Product | Qty | Amount (Rs.)   |              | Remarks |
|----------|---------------------|-----|----------------|--------------|---------|
|          |                     |     | Cost of inputs | Gross income |         |
| Kawardha | BIO AGENTS          |     |                |              |         |
|          | BIO FERTILIZERS     |     |                |              |         |
|          | BIO PESTICIDES      |     |                |              |         |



#### 8.4 Livestock and fisheries production

| KVK Name | Name of the animal / bird / aquatics | Details of production |                 |      | Amount (Rs.)   |              | Remarks |
|----------|--------------------------------------|-----------------------|-----------------|------|----------------|--------------|---------|
|          |                                      | Breed                 | Type of Produce | Qty. | Cost of inputs | Gross income |         |
| Kawardha | <b>Cattle</b>                        |                       |                 |      |                |              |         |
|          | <b>Buffalo</b>                       |                       |                 |      |                |              |         |
|          | <b>Sheep and Goat</b>                |                       |                 |      |                |              |         |
|          | <b>Poultry</b>                       |                       |                 |      |                |              |         |
|          | <b>Fisheries</b>                     |                       |                 |      |                |              |         |
|          | <b>Others (Specify)</b>              |                       |                 |      |                |              |         |

#### 9. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : NO

Year of establishment : -

##### 9.1 Details of soil & water samples analyzed so far :

| KVK Name | Details | No. of Samples | No. of Farmers | No. of Villages | Amount realized |
|----------|---------|----------------|----------------|-----------------|-----------------|
| Kawardha |         |                |                |                 |                 |
|          |         |                |                |                 |                 |

#### 10. Rainwater Harvesting

##### Training programmes conducted by using Rainwater Harvesting Demonstration Unit

| Name of KVK | Date | Title of the training course | Client (PF/RV/EF) | No. of Courses | No. of Participants including SC/ST |        |       | No. of SC/ST Participants |        |       |
|-------------|------|------------------------------|-------------------|----------------|-------------------------------------|--------|-------|---------------------------|--------|-------|
|             |      |                              |                   |                | Male                                | Female | Total | Male                      | Female | Total |
| Kawardha    |      |                              |                   |                |                                     |        |       |                           |        |       |
|             |      |                              |                   |                |                                     |        |       |                           |        |       |
|             |      |                              |                   |                |                                     |        |       |                           |        |       |

### 11. Utilization of Farmers Hostel facilities

Accommodation available (No. of beds) : No

| KVK Name | Months | Year | Title of the training course | Duration of training | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|----------|--------|------|------------------------------|----------------------|------------------------|----------------------------|--------------------------------|
| Kawardha |        |      |                              |                      |                        |                            |                                |
|          |        |      |                              |                      |                        |                            |                                |
|          |        |      |                              |                      |                        |                            |                                |

### 12. Utilization of Staff Quarters facilities : No

| KVK Name | Year of construction | Year of allotment | No. of quarters occupied | No. of quarters vacant | Reasons for vacant quarters, if any |
|----------|----------------------|-------------------|--------------------------|------------------------|-------------------------------------|
| Kawardha |                      |                   |                          |                        |                                     |
|          |                      |                   |                          |                        |                                     |
|          |                      |                   |                          |                        |                                     |

### 13. Details of SAC Meeting

| KVK Name | Date of SAC meeting | No. of SAC members attended | Major recommendations  |
|----------|---------------------|-----------------------------|--|
| Kawardha | 24 May, 2011        | 30                          | Training on improved cultivation practices of oilseeds, pulses, cereals, & vegetables. Promotion of use of organic source of nutrients. Promotion of seed treatment before sowing. |
|          |                     |                             |  |

### 14. Status of Kisan Mobile Advisory (KVK-KMA)

| KVK Name | No. of messages sent | No. of beneficiary |            | Major recommendations  |
|----------|----------------------|--------------------|------------|--|
|          |                      | Farmers            | Ext. Pers. |  |
| Kawardha |                      |                    |            |  |
| Kawardha | 34589                | 1120               | 69         | Related to cultivation practices of crops, prevention & control of seasonal insect/pests & diseases, awareness |
|          |                      |                    |            |  |

15. Status of Convergence with various agricultural schemes (Central & State sponsored)

| KVK Name | Name of scheme              | Name of Agency (Central/state) | Funds received (Rs.) | Activities organized           | Operational Area   | Remarks |
|----------|-----------------------------|--------------------------------|----------------------|--------------------------------|--------------------|---------|
| Kawardha | ATMA                        |                                |                      |                                |                    |         |
| Kawardha | MNREGA                      |                                |                      |                                |                    |         |
| Kawardha | NHM                         |                                |                      |                                |                    |         |
| Kawardha | RKVY                        |                                |                      |                                |                    |         |
| Kawardha | DRDA                        |                                |                      |                                |                    |         |
| Kawardha | Zila Panchyat               |                                |                      |                                |                    |         |
| Kawardha | Seed village                |                                |                      |                                |                    |         |
| Kawardha | NAIP                        |                                |                      |                                |                    |         |
| Kawardha | Climate Change              | NICRA, IGKV                    | 20,000.00            | Farmer Awareness Programme     | Kabirdham District |         |
| Kawardha | Others (Plz. Specify) - TSP | IIPR, Kanpur                   | 1,67,600.00          | FLD, Field Day, Ag. Exhibition | Bodla Block        |         |

16. Status of Revolving Funds (Rs.)

| KVK Name | Account No. | Opening balance (Rs.) | Closing balance (Rs.) | Current status (Rs.) |
|----------|-------------|-----------------------|-----------------------|----------------------|
| Kawardha | 30415695476 | 148255                | 411021                | 411021               |
|          |             |                       |                       |                      |
|          |             |                       |                       |                      |

17. Awards & Recognitions

| KVK Name | Name of award /awardee           | Type of award (Ind./Group/Inst./Farmer) | Awarding Organizations | Amount received |
|----------|----------------------------------|---|------------------------|-----------------|
| Kawardha | Shri Santosh Kumar Chandrawanshi | Farmer                                  | IGKV                   |                 |
|          |                                  |   |                        |                 |
|          |                                  |   |                        |                 |

18. Case study and Success Story – Two best only in the following format – In separate Sheet

Name of the KVK, TITLE, Introduction, KVK intervention, Output, Outcome, Impact

## 19. Details of KVK Agro-technological Park

| Name of KVK | Name of Component of Park | Detail Information (If established) |
|-------------|---------------------------|-------------------------------------|
| Kawardha    | Crop Cafeteria            |                                     |
|             | Technology Desk           |                                     |
|             | Visitors Gallery          |                                     |
|             | Technology Exhibition     |                                     |
|             | Technology Gate-Valve     |                                     |

## 20. Important visitors to KVK

| Name of KVK | Name of Visitor   | Date of Visit                     | Remarks |
|-------------|---|-----------------------------------|---------|
| Kawardha    | Dr. U. S. Gautam, ZPD, Zone -VII  | 16, May, 2011, 1 Sepetember, 2011 |         |
| Kawardha    | Shri Mukesh Bansal, Collector – Kabirdham, Shri Sunil Jain, CEO, Jila Panchayat - Kabirdham | 31, May, 2011                     |         |
| Kawardha    | Shri K. C. Paikra, MD C.G. State Seed Certification Agency, Raipur                          | 20, Sepetember, 2011              |         |
| Kawardha    | Mrs. Tripti Sharma, Comptroller, IGKV, Raipur (C.G.)  | 14, Decenber,2011                 |         |
| Kawardha    | Shri R. K. Singh, Regional Manager, Central Warehouse Corporation, Raipur                   | 14-15, Decenber,2011              |         |
| Kawardha    | Dr. Siya Ram Sahu, Hon,ble MLA  | 15, Decenber,2011                 |         |
| Kawardha    | Dr. J. S. Urkurkar, DES, IGKV, Raipur (C.G.)  | 15 Decenber, 2011, 15 March, 2012 |         |
| Kawardha    | Dr. S. K. Patil, Hon'ble V.C., IGKV, Raipur (C.G.)  | 15, March, 2012                   |         |

## 21. Status of KVK Website: Under Construction

## 22. E-CONNECTIVITY

| Name of KVK | Number and Date of Lecture delivered from KVK Hub |                      |                              |                               | No of lectors organized by KVK | Brief achievements | Remarks |
|-------------|---|----------------------|------------------------------|-------------------------------|--------------------------------|--------------------|---------|
|             | Date  | No of Staff attended | No of call received from Hub | No of Call mate to Hub by KVK |                                |                    |         |
| Kawardha    |   |                      |                              |                               |                                |                    |         |
|             |   |                      |                              |                               |                                |                    |         |

## 23. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

| Name of KVK | Types of Activities                                 | No. of Activities | Number of Participants | Related crop/livestock technology |
|-------------|---|-------------------|------------------------|-----------------------------------|
| Kawardha    | Gosthies  |                   |                        |                                   |
| Kawardha    | Lectures organized                                  |                   |                        |                                   |
| Kawardha    | Exhibition  |                   |                        |                                   |
| Kawardha    | Film show   |                   |                        |                                   |
| Kawardha    | Fair  |                   |                        |                                   |
| Kawardha    | Farm Visit  |                   |                        |                                   |
| Kawardha    | Diagnostic Practical's                              |                   |                        |                                   |
| Kawardha    | Distribution of Literature (No.)                    |                   |                        |                                   |
| Kawardha    | Distribution of Seed (q)                            |                   |                        |                                   |
| Kawardha    | Distribution of Planting materials (No.)            |                   |                        |                                   |
| Kawardha    | Bio Product distribution (Kg)                       |                   |                        |                                   |
| Kawardha    | Bio Fertilizers (q)                                 |                   |                        |                                   |
| Kawardha    | Distribution of fingerlings (No)                    |                   |                        |                                   |
| Kawardha    | Distribution of Livestock specimen (No.)            |                   |                        |                                   |
| Kawardha    | Total number of farmers visited the technology week |                   |                        |                                   |

## 24. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

| Name of KVK | Crops/cultivars | Area (ha) | Number of beneficiaries |
|-------------|-----------------|-----------|-------------------------|
| Kawardha    |                 |           |                         |
|             |                 |           |                         |
|             |                 |           |                         |

Major area coverage under alternate crops/varieties

| Mane of KVK | Crops           | Area (ha) | Number of beneficiaries |
|-------------|-----------------|-----------|-------------------------|
| Kawardha    | Oilseeds        |           |                         |
| Kawardha    | Pulses          |           |                         |
| Kawardha    | Cereals         |           |                         |
| Kawardha    | Vegetable crops |           |                         |
| Kawardha    | Tuber crops     |           |                         |
| Kawardha    | Fruits          |           |                         |
| Kawardha    | Spices          |           |                         |
| Kawardha    | Cotton          |           |                         |
|             |                 |           |                         |
|             |                 |           |                         |
|             | <b>Total</b>    |           |                         |

Farmers-scientists interaction on livestock management

| Name of KVK | Livestock components | Number of interactions | No.of participants |
|-------------|----------------------|------------------------|--------------------|
| Kawardha    |                      |                        |                    |
| Kawardha    |                      |                        |                    |
| Kawardha    |                      |                        |                    |
| Kawardha    |                      |                        |                    |
|             |                      |                        |                    |
|             |                      |                        |                    |

Animal health camps organised

| Name of KVK | Number of camps | No.of animals | No.of farmers |
|-------------|-----------------|---------------|---------------|
| Kawardha    |                 |               |               |
|             |                 |               |               |
|             |                 |               |               |

Seed distribution in drought hit states

| Name of KVK | Crops | Quantity (qtl) | Coverage of area (ha) | Number of farmers |
|-------------|-------|----------------|-----------------------|-------------------|
| Kawardha    |       |                |                       |                   |
|             |       |                |                       |                   |
|             |       |                |                       |                   |

Seedlings and Saplings distributed

| Name of KVK      | Crops | Quantity (No.s) | Coverage of area (ha) | Number of farmers |
|------------------|-------|-----------------|-----------------------|-------------------|
| <b>Seedlings</b> |       |                 |                       |                   |
| Kawardha         |       |                 |                       |                   |
|                  |       |                 |                       |                   |
|                  |       |                 |                       |                   |
|                  |       |                 |                       |                   |

**Bio-control Agents**

| Name of KVK | Bio-control Agents | Quantity (q) | Coverage of Area (ha) | No. of farmers |
|-------------|--------------------|--------------|-----------------------|----------------|
| Kawardha    |                    |              |                       |                |

**(e) Bio-Fertilizer**

| Name of KVK | Bio-Fertilizer | Quantity (kg) | Coverage of Area (ha) | No. of farmers |
|-------------|----------------|---------------|-----------------------|----------------|
| Kawardha    |                |               |                       |                |
|             |                |               |                       |                |
|             |                |               |                       |                |
|             |                |               |                       |                |

**(f) Verms Produced**

| Name of KVK | Verms Produced | Quantity (q) | Coverage of Area (ha) | No. of Farmers |
|-------------|----------------|--------------|-----------------------|----------------|
| Kawardha    |                |              |                       |                |
|             |                |              |                       |                |

**(g) Large scale adoption of resource conservation technologies**

| Name of KVK | Crops/cultivars and gist of resource conservation technologies introduced | Area (ha) | Number of farmers |
|-------------|---|-----------|-------------------|
| Kawardha    |   |           |                   |
|             |   |           |                   |

**(h) Awareness campaign**

| Name of KVK | Meetings |                | Gosthies |                | Field days |                | Farmers fair |                | Exhibition |                | Film show |                |
|-------------|----------|----------------|----------|----------------|------------|----------------|--------------|----------------|------------|----------------|-----------|----------------|
|             | No.      | No. of farmers | No.      | No. of farmers | No.        | No. of farmers | No.          | No. of farmers | No.        | No. of farmers | No.       | No. of farmers |
| Kawardha    |          |                | 01       | 162            | 01         | 201            |              |                | 01         | 50             |           |                |
|             |          |                |          |                |            |                |              |                |            |                |           |                |

25. **Status of KVK Website:** under construction

26. **Well labeled Photographs for each activity of the KVK (Soft copies as well as hard copy- specially for all OFT along with the problem) –**