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## **ABBREVIATIONS**

|               |   |   |
|---------------|---|---|
| ATMA          | : | Agriculture Technology Management Agency          |
| ADA           | : | Assistant Director of Agriculture                 |
| ATM           | : | Assistant Technology Manager                      |
| AAP           | : | Annual Action Plan                                |
| BLAIC / TLAIC | : | Block / Taluk Level ATMA Implementation Committee |
| BFAC / TFAC   | : | Block / Taluk Farmer Advisory Committee           |
| BTM           | : | Block Technology Manager                          |
| BTT           | : | Block Technology Team                             |
| CIGs          | : | Commodity Interest Groups                         |
| C, M & E      | : | Concurrent, Monitoring & Evaluation               |
| CEO           | : | Chief Executive Officer                           |
| CSS           | : | Centrally Sponsored Scheme                        |
| DAP           | : | District Action Plan                              |
| DAAP          | : | District Agricultural Action Plan                 |
| DLAIC         | : | District Level ATMA Implementation Committee      |
| DFAC          | : | District Farmers Advisory Committee               |
| DDA           | : | Deputy Director of Agriculture                    |
| DB            | : | Display Board                                     |
| DPD           | : | Deputy Project Director                           |
| EV            | : | Exposure Visit                                    |
| FIG           | : | Farmers Interest Group                            |
| FGDs          | : | Focused Group Discussions                         |
| FF            | : | Farmer Friend                                     |
| FID           | : | Farm Information Dissemination                    |
| FOs           | : | Farmer Organizations                              |
| IDWG          | : | Inter Departmental Working Group                  |
| ITD           | : | Innovative Technology Dissemination               |
| JDA           | : | Joint Director of Agriculture                     |

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|               |   |  |
|---------------|---|--|
| KEA           | : | Karnataka Evaluation Authority                               |
| KG            | : | Kissan Goshti  |
| KVK           | : | Krishi Vignana Kendra  |
| OIA           | : | Other Innovative Activity                                    |
| PD            | : | Project Director   |
| RA / FO       | : | Research Agency / Farmer Organization                        |
| RSK           | : | Raita Samparka Kendra  |
| SAMETI        | : | State Agricultural Extension Management & Training Institute |
| SAP           | : | State Agriculture Plan                                       |
| SLSC          | : | State Level Steering Committee                               |
| SNO / SNC     | : | State Nodal Officer / State Nodal Cell                       |
| SEWP          | : | State Extension Work Plan                                    |
| SAUs          | : | State Agricultural Universities                              |
| SC / ST / OBC | : | Scheduled Cast / Scheduled Tribe / Other Backward Classes    |
| SREP          | : | Strategic Research & Extension Plan                          |
| SMSP          | : | Sub-Mission on Seed and Plant Material                       |
| SMAE          | : | Sub-Mission on Agricultural Extension                        |
| SMAM          | : | Sub-Mission on Agricultural Mechanization                    |
| SNPP          | : | Sub-Mission on Plant Protection & Plant Quarantine           |
| ToR           | : | Terms of Reference   |
| UAS           | : | University of Agricultural Sciences                          |
| ZRS           | : | Zonal Research Station                                       |

## Executive Summary

- The study indicates an overall expenditure of Rs 1491.381 lakhs against financial target of Rs. 1925.43 lakhs under District level activities which works out to 77.46%
- An Amount of Rs 429.55 lakhs earmarked to all ATMA districts in Bengaluru and Kalaburgi Revenue Division for utilizing the same for implementation of Farmer oriented activities including Farm Field Schools of which Rs 297.83 lakhs utilized which works out to 69.34%.
- The SREP's have been prepared originally during 2005-06 to 2007-08 in all 14 districts. These SREP's should have been revisited after every five years considering research activities of different departments at field level. But this has been attended.
- The social mobilization of farmers by way of formation / skill development of FIGs, CIGs and FSGs have been implemented in all the districts. Further the progress under food security groups is average (39% and 16% ) in case of Bengaluru & Kalaburgi RD respectively
- The overall expenditure under Farm information Dissemination is Rs 94.70 lakhs against target of Rs 136.20 lakhs which works out to 69.53%.
- Under Agriculture Technology, Refinement, validation & Adoption, as against a target of Rs. 40.22 lakhs, an amount of Rs 24.568 lakhs has been spent which amounts to 61.08% and this needs to be strengthened in future days in order to achieve 100%
- Out of Rs.128.90 lakhs allocated for other innovative activities, an amount of Rs 47.784 lakhs only have been spent which works out 37.07%.
- Out of the total expenditure of Rs 1491.381 lakhs incurred during the year 2017-18, an amount of Rs 912.465 lakhs was towards administrative expenditure which works out to 61.18% as against 28% specified in the guidelines.
- Meetings of ATMA GB in the district under the chairmanship of CEO, against four meetings to be conducted in a year, one meeting each conducted in majority of the districts. However in Chickabalur, Tumkur conducted three meetings each.
- Similarly against 4 meetings of DFAC, only one or two meetings during 2017-18 have been conducted except 2 districts, Representation to women farmers to the extent of 10% provided in the districts of Bengaluru RD, where as in Kalaburgi RD it is 19%.

- As many as 89 success stories have been prepared in majority of districts in Bengaluru & Kalaburgi RD. But few of them were published at local level, and few districts have failed to brought out.
- Comparatively good progress achieved in respect of farmers field schools in both the RD. But Kalaburgi RD achieved 68% progress compared to Bengaluru RD (40%). However the progress in both RDs is more compared to previous years.
- Rewards / incentives to farmer groups and farmer awards: Of the two components, the progress achieved under farmers award could be considered as satisfactory, but below average progress seen under incentive/rewards registering achievement of 50% and 26% in case of Bengaluru and Kalaburgi RD respectively
- Convergence and participation of Agriculture / allied sectors in majority of the districts during 2017-18 observed compared to previous years but fund allocation & utilisation is poor.
- Almost all training programmes have been designed based on cafeteria of activity and based on regional / local requirement.
- The concept of farm school/demonstration programme on specific activity of the technology has been well understood and adopted by the community.
- Women farmers benefitted to the extent of 31% and 24% in respect of Bengaluru and Kalaburgi Revenue Divisions respectively. Similarly SC/ST together benefitted to the extent of 26% in Bengaluru & Kalaburgi RD respectively.
- In total 69,006 farmers have been benefitted under the scheme of which women beneficiaries registered 29% (19,939 No.)
- In both Revenue Divisions the project staff have taken adequate care / measures to carryout/ adopt new crops/new farm activities, new and sustainable technologies which have been documented district wise and presented in **tables - 25**
- SEWP prepared based on bottom-up planning, needs to be reviewed at all levels of implementation.
- Inadequate participation of scientist of SAU observed. Inter Departmental Working Group (IDWG) meetings are inadequate and need more attention.

**Chapter -1****INTRODUCTION****1.1 Background**

ATMA is a system of Agricultural Technology Management to improve the functioning of extension programmes in Agriculture and allied fields to bring out efficiency and effectiveness in extension and development. Support to State Extension Programmes for Extension Reforms (ATMA Scheme)

Extension Reforms in India were pilot tested in 28 districts in 7 States from 1998 to 2005. This successful experiment served as a basis to launch the scheme “Support to State Extension Programmes for Extension Reforms” in the year 2005-06. It was revamped, expanded and strengthened comprehensively in the year 2010.

The Centrally sponsored ATMA model of Agricultural Extension system was introduced in Karnataka State in nine districts (viz. Bidar, Gulbarga, Shimoga, Chamarajanagar, Kolar, Koppal, Haveri, Bijapur and Hassan) during the year 2005-06 and further extended to all the districts of the State since 2007-08. The Agriculture Department of Government of Karnataka is the nodal Department and the scheme is being implemented with 60:40 grant sharing pattern between GOI & GOK now revised to 90:10 grant sharing pattern between Govt. of India and Govt. of Karnataka. For this purpose, a State level Inter Departmental Working Group (IDWG), 29 District Level ATMA Steering Committees (DLASC) and 174 Taluk Level ATMA Implementation Committees (TLAIC) has been constituted. The District Level Steering Committees are headed by Chief Executive Officers of the Zilla Panchayats with the District Joint Director of Agriculture being the Member Secretary. The Taluk Level Committees have Taluk Assistant Directors of Agriculture as their Chairperson, with the Block Technology Manager of the Taluk being the Member Secretary. Apart from this, for human resources development and capacity building of extension Staff and two State Agricultural Extension Management Training Institutes (SAMETI) have been setup. The guidelines for the extension reforms were modified during the year 2014 by strengthening the extension machinery and utilizing it for synergizing the interventions under the scheme as follows:

- Provision of specialist and functionary support at different levels viz. State Coordinator and faculty and supporting staff for SAMETI at State level, Project Director, Deputy Project Directors and supporting staff at District level and Block Technology Manager and Asst. Technology Manager at the Block Level.
- Revision in ATMA Cafeteria to include some additional activities and to provide for enhanced unit costs for some of the activities.
- Delegation of powers to State Level Sanctioning Committee (SLSCs) set up under Rashtriya Krishi Vikas Yojana, to approve the State Extension Work Plan (SEWP) prepared under the Extension Reforms Scheme. The State Nodal cell (SNC) will ensure timely receipt of District Agriculture Action Plans (DAAP) to formulate the State Extension Work Plan (SEWP).

## 1.2 The Contract

The Department of Agriculture, Government of Karnataka vide Notification No. DOA / ATMA / M & E / 2017-18 dated 11.10.2017 had called for bids from eligible Consultant Evaluation Organizations to undertake Concurrent Monitoring and Evaluation of ATMA scheme in Karnataka State during the year 2017-18 in two parts viz., (i) Belgaum and Mysore revenue divisions, and (ii) Bengaluru and Gulbarga revenue divisions. After the tender process, Indian Resources Information and Management Technologies Ltd., (IN-RIMT) was selected for carrying out the evaluation and monitoring study in Belgavi & Mysore and Bengaluru & Gulbarga Revenue divisions and accordingly, the Contract Agreement was signed between the Department of Agriculture and IN-RIMT on 17.11.2017.

IN-RIMT submitted an Inception Report containing detailed road map for the study, sampling design, methodology, work plan and questionnaire formats etc., within the stipulated time (20.12.2017). The Inception Report was also submitted to the CEO, KEA on the same day i.e 20.12.2017, and as per the suggestion from Department of Agriculture, the inception report was corrected and submitted to the DOA / KEA on 27.01.2018 (Copies enclosed in Annexure- 2). Monthly review reports for the months of Oct 2017 to Feb 2018 followed by first and second quarterly reports covering the findings during first spell of visits to all the districts have been prepared and submitted during the month of May 2018. The second spell of visits was carried out during the months of April to June 2018, the pre draft report (soft copy) submitted to Department of Agriculture, during August 2018 and final draft submitted on 16-10-2018.

**Chapter - 2****ATMA MODEL OF EXTENSION REFORMS SCHEME  
– IMPLEMENTATION STRATEGY**

The scheme was introduced in the State during 2005-06. It was further extended to all districts of the State since 2007- 08 vide Government order No. AHD 275 AMS 2004 dated 12.12.2005 and subsequent orders. District Level ATMA Steering Committees for 29 districts and 174 Taluk Level ATMA Implementing Committees have been constituted. The DLASCs are headed by the CEO of the Zilla Panchayat with District JDA as Member Secretary. The Taluk level ATMA Implementation Committees have Taluk ADA's as their Chairman with BTM of the taluk as Member Secretary. The committees have been formed with an objective of giving approvals to the District plans and Block plans and their overall monitoring. At State level, Inter Departmental Working Group (IDWG) headed by the Additional. Chief Secretary / Development Commissioner / Principal Secretary, Agriculture Commissioner / Director of Agriculture as the Nodal Officer and the Department of Agriculture is being the Nodal Department.

The HRD activities i.e., providing regular training and skill upgradation to District and Taluk level extension functionaries and farmers through workshops are looked after by SAMETI Regional Centres (South and North) located in the University of Agricultural Sciences at Bengaluru and Dharwad respectively.

The scheme is being implemented as per the administrative approval accorded by the Government of India. It was envisaged that the component wise allocation shall strictly be adhered to. However, if new components are added by Government of India (GoI), expenditure for such components shall be incurred from the allocation for the other components as suggested by GoI. GoI has modified the guidelines of this support to state extension programmes for extension reforms during 2014. The scheme has been strengthened with strong manpower, infrastructure and activities.

In order to streamline the implementation, the State Nodal Officer (SNO) has issued the following general instructions:



1. The Chief Executive Officer of Zilla Panchayats who are the Executive Directors of District level ATMA Steering Committees shall guide/ facilitate the line Departments to execute the approved activities strictly as per GoI norms.
2. The district JDA's and taluk ADA's who are Member Secretaries and Chairmen respectively of district / taluk level committees are directed to ensure proper and successful implementation of the scheme through effective co-ordination among the line departments and all other concerned organizations/ institutions.
3. Meetings of the District level ATMA Steering Committees and Taluk level ATMA Implementation Committees shall be regularly convened and decisions shall be taken thereon for timely implementation.
4. Farmer oriented activities shall be carried out in accordance with GOI approved guidelines strictly as per ceiling limits for the present ongoing activities.
5. The concerned Officers shall ensure audit of their ATMA accounts for the year by a Chartered Accountant and furnish the same to the Department for further submission to GoI. There shall not be any variations in the figures in the audited utilisation certificate. The Accountant cum Clerk should be made accountable for this.
6. Perfect co-ordination among all the line departments, duly ensuring proper allocation of funds for carrying out extension activities as per identified needs as documented in SREP's.
7. Focus on timely implementation of activities for higher rate of success.
8. A minimum of 10% of allocation shall have to be utilised through involvement of NGO's, Agri-business, Agri-clinics, Agri-entrepreneurs, input dealers and others.
9. While selecting farmers, preference to be given to SC, ST, OBC, minorities, women farmers as per the norms of the State and Central Government.
10. Monthly progress reports shall be sent in prescribed formats only, within 5<sup>th</sup> of the succeeding month.

**Chapter - 3****AGRICULTURE TECHNOLOGY MANAGEMENT AGENCY (ATMA)****- PROGRESS REVIEW**

Agriculture Technology Management Agency (ATMA) has the main responsibility of all the technology dissemination activities at the district level and it has linkages with all the line departments, research organisations, non-governmental and agencies associated with agriculture development, with substantial representation of farmer organisations and women farmers, research and extension units within the districts.

ATMA model of agricultural extension reforms scheme was implemented during 2005-06 in nine districts of the State namely Bidar, Kalaburgi, Shimoga, Chamarajanagar, Kolar, Koppal, Haveri, Bijapur (Vijayapura) and Hassan. The scheme is being implemented in all the districts of the State since 2007-08 onwards.

The Department of Agriculture, Government of Karnataka have accorded approval to the annual action plans for the year 2017-18 for the sum of Rs. 4634.15 lakhs as per the approved State Extension Work Plan of CSS “Support to State Extension Programme for Extension Reforms” – ATMA. The break-up is as follows:

|   |                            |
|---|----------------------------|
| 1. State level activities                       | : Rs. 513.56 lakhs.        |
| 2. District level activities (all 29 districts) | : Rs. 3876.54 lakhs        |
| 3. SAMETI (S) & (N)                             | : Rs. 244.05 lakhs         |
| <b>Total</b>                                    | <b>: Rs. 4634.15 lakhs</b> |

Division-wise allocation

|   |                            |
|---|----------------------------|
| 1. Bengaluru Revenue Division (8 districts) | : Rs. 1151.01 lakhs        |
| 2. Kalaburgi Revenue Division (6 districts) | : Rs. 774.42lakhs          |
| <b>Total</b>                                | <b>: Rs. 1925.43 lakhs</b> |

### 3.1 Physical & Financial targets and achievements

The physical and financial targets of the cafeteria of activities approved at State level and discussed and approved at District level ATMA Steering Committee forms the basis for implementation of ATMA activities at Districts, Taluk level and in turn at village level. List of ATMA activities approved and implemented are given in Tables 1 - 6.

**Table-1: State Level Activities:**

#### Action Plan for 2017-18 Under ATMA Scheme/ Achievements

No. of District : 29

No. of Block : 174(Rs. in Lakhs)

| Sl. No.     | Activities   | Unit | Physical |             | Financial |             |
|-------------|--|------|----------|-------------|-----------|-------------|
|             |  |      | Target   | Achievement | Target    | Achievement |
| <b>A.</b>   | <b>State Level Activities</b>  |      |          |             |           |             |
| <b>A. 1</b> | <b>Monitoring &amp; Evaluation</b>   |      |          |             |           |             |
|             | a) Quarterly review workshops and R-E Interfaces (pre-seasonal)  | Nos. | 4        | 1           | 3.00      | 0.70        |
|             | b) Concurrent Monitoring & Evaluation  | No.  |          |             | 10.00     | 9.01        |
| A. 2        | c) Expenses for Inter Departmental Working Group on extension reforms and other contingencies including Operational support. TA / DA, hiring of vehicle / POL, and contingencies for SNO and State Coordinator   | -    | LS       | LS          | 7.00      | 7.00        |
|             | a) Training courses - (SAMETI) level-Both Govt. & Non-Govt. extension functionaries (including NGOs, Para Extension workers, Input suppliers, Farmer Friends, ATM, BTM, PD, DPD) Technology related only including skill development for rural youths. (174X10X3 days) | mds. | 5220     | 2734        | 52.20     | 25.93       |
|             | b) Induction training of ATMA functionaries - Two batch (0.010 / day / participant for 60 members for 7 days)  | mds. | 420      | 252         | 4.20      | 1.83        |
|             | c) Refresher Training of all ATMA functionaries (0.010 / day / Participant) (174X5 staff 3 days)   | mds. | 2610     | 630         | 26.10     | 4.68        |
|             | d) Development of Quality Resource Material for Training & HRD Interventions (0.015 / day / participant) - 30 members  | mds. | 30       | -           | 0.45      | 0.22        |
| A. 3        | Exposure visit of extension functionaries and PRI members to progressive states. (A group of minimum 5 members per Block for 8 days) (5X174X8)   | mds. | 6960     | 1446        | 69.60     | 12.69       |

| Sl. No. | Activities  | Unit | Physical |             | Financial |             |
|---------|---|------|----------|-------------|-----------|-------------|
|         |   |      | Target   | Achievement | Target    | Achievement |
| A.4     | Organization of State level exhibition / Kisan Melas / Fruit / Vegetable shows, et., (6 UAS @ Rs. 1.00 Lakhs) | Nos. | 6        | -           | 6.00      | nil         |

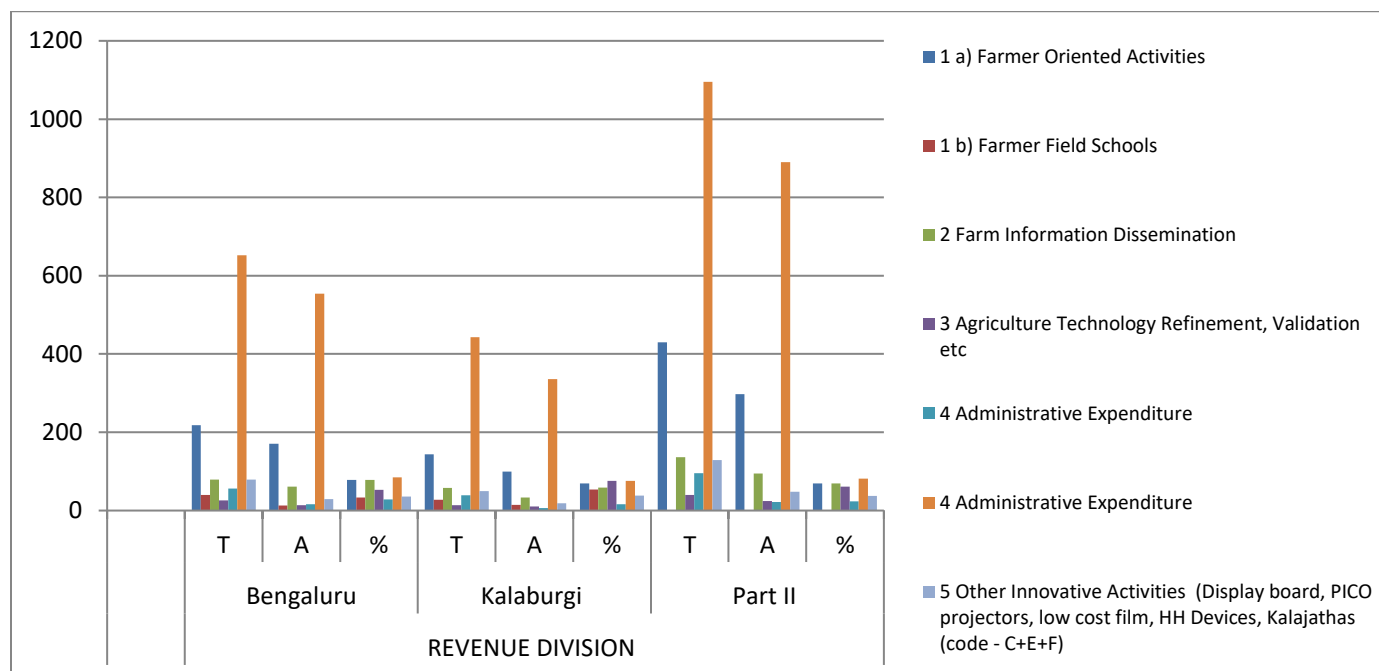
|      |   |      |              |             |               |              |
|------|---|------|--------------|-------------|---------------|--------------|
| A. 5 | Krishi Expo & Regional Fair - Participation in Krishi Expo organized by DAC   | -    | LS           | -           | 2.00          | nil          |
| A. 6 | Award for best performing ATMA (per year)   | -    | -            | -           | 0.00          | nil          |
| A. 7 | a) Farmer Awards - Best farmers representing different areas of agriculture   |      |              |             |               |              |
|      | State Level (0.50 / year / farmer)  | Nos. | 10           | -           | 5.00          | nil          |
|      | District Level (0.25 / year / farmer) (10 farmers / District)   | Nos. | 290          | 25          | 72.50         | 6.25         |
|      | b) Incentive for Exemplary Extension Work to District / Block level Extension functionaries (0.25 / season for kharif, rabi & summer) | -    | -            | -           | 0.00          | -            |
|      | c) Incentivizing Scientists and ext. personnel (Lumpsum)  | -    | -            | -           | 0.00          | -            |
|      | d) Lumpsum grant for PPP model (up to 500 lakhs)  | -    | -            | -           | 0.00          | -            |
| A. 8 | a) Operational Expenses (0.50 / Dist.)  | Nos. | 29           | 29          | 14.50         | 4.57         |
|      | b) Documentation of success stories etc., (preparation and dissemination) / year  | Nos. | 2            | 1           | 5.00          | 0.57         |
|      | c) Vehicle hiring and POL / year (per 2 SAMETIS)  | Nos. | 2            | 2           | 4.00          | 3.35         |
|      | Non – Recurring   |      |              |             |               |              |
|      | d) Equipment / year   | -    | -            | -           | 0.00          | -            |
|      | e) One time grant for building maintenance / furnishing of training halls   | -    | -            | -           | 0.00          | -            |
|      | <b>Total of A</b>   |      | <b>15583</b> | <b>5120</b> | <b>281.55</b> | <b>76.80</b> |

**Table-2: Broad Component wise Activity wise Financial Targets and Achievements (Bengaluru & Kalaburgi RD)**

**ATMA Broad Component wise/ Revenue Division wise Financial Targets & Achievements  
Part - II**

| Sl No | Broad Activity                                    | REVENUE DIVISION       |         |         |           |        |        |         |         |         |       |
|-------|---|------------------------|---------|---------|-----------|--------|--------|---------|---------|---------|-------|
|       |   | Bengaluru              |         |         | Kalaburgi |        |        | Part II |         |         |       |
|       |   | T                      | A       | %       | T         | A      | %      | T       | A       | %       |       |
| 1     | a) Farmer Oriented Activities                     | 218.36                 | 170.786 | 78      | 143.73    | 99.28  | 69     | 429.50  | 297.83  | 69.34   |       |
|       | b) Farmer Field Schools                           | 40.05                  | 13.085  | 33      | 27.36     | 14.68  | 54     |         |         |         |       |
| 2     | Farm Information Dissemination                    | 78.70                  | 61.103  | 78      | 57.50     | 33.67  | 59     | 136.20  | 94.773  | 69.58   |       |
| 3     | Agriculture Technology Refinement, Validation etc | 26.24                  | 14.005  | 53      | 13.98     | 10.563 | 76     | 40.22   | 24.568  | 61.08   |       |
| 4     | Administrative Expenditure                        | ATMA like institutions | 56.00   | 15.836  | 28        | 39.40  | 6.285  | 16      | 95.40   | 22.119  | 23.19 |
|       |   | Man power component    | 652.25  | 554.446 | 85        | 443.10 | 335.90 | 76      | 1095.45 | 890.146 | 81.26 |

|              |  |                |                |           |               |                |           |                |                 |               |
|--------------|--|----------------|----------------|-----------|---------------|----------------|-----------|----------------|-----------------|---------------|
| 5            | Other Innovative Activities (Display board, PICO projectors, low cost film, HH Devices, Kalajathas (code - C+E+F)) | 79.50          | 28.974         | 36        | 49.40         | 18.81          | 38        | 128.90         | 47.784          | 37.07         |
| <b>Total</b> |  | <b>1151.01</b> | <b>858.235</b> | <b>75</b> | <b>774.47</b> | <b>519.186</b> | <b>67</b> | <b>1925.43</b> | <b>1376.518</b> | <b>71.491</b> |

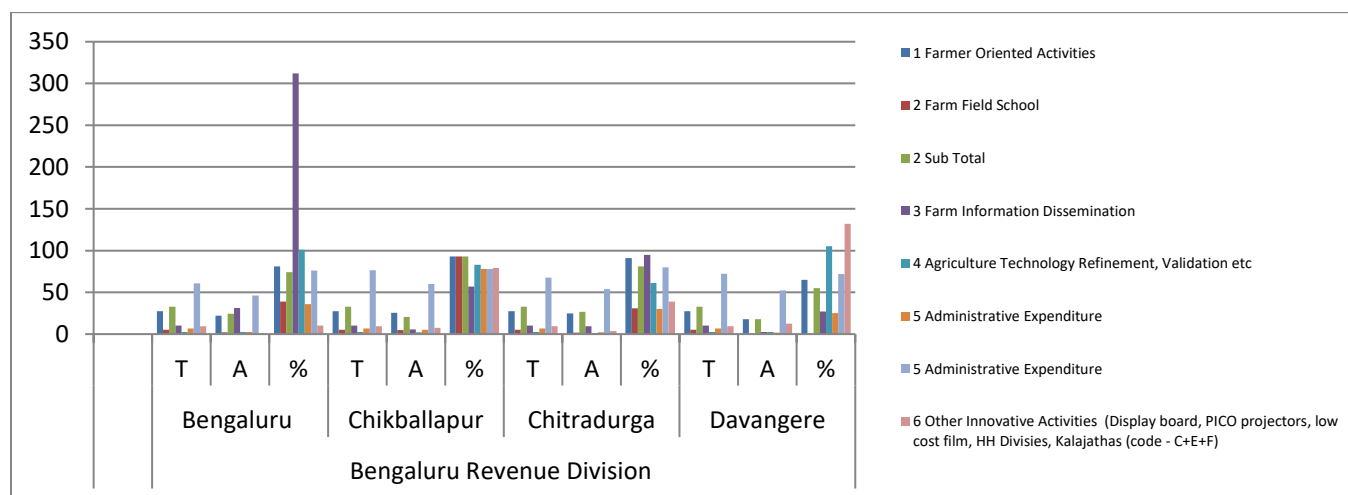


**Table: 3 ATMA Broad Activity wise/ District wise Financial Targets & Achievements 2017 -18**

| Sl No | Broad Activity                                    | Bengaluru Revenue Division |        |       |              |       |      |             |       |     |            |       |       |    |
|-------|---|----------------------------|--------|-------|--------------|-------|------|-------------|-------|-----|------------|-------|-------|----|
|       |   | Bengaluru                  |        |       | Chikballapur |       |      | Chitradurga |       |     | Davanagere |       |       |    |
|       |   | T                          | A      | %     | T            | A     | %    | T           | A     | %   | T          | A     | %     |    |
| 1     | Farmer Oriented Activities                        | 27.42                      | 22.096 | 81    | 27.42        | 25.58 | 93   | 27.42       | 24.9  | 91  | 27.42      | 17.9  | 65    |    |
| 2     | Farm Field School                                 | 5.29                       | 2.108  | 39    | 5.29         | 4.91  | 93   | 5.29        | 1.63  | 31  | 5.29       | 0     | 0     |    |
|       | Sub Total   | 32.71                      | 24.204 | 74    | 32.71        | 30.49 | 93   | 32.71       | 26.53 | 81  | 32.71      | 17.9  | 55    |    |
| 3     | Farm Information Dissemination                    | 10                         | 31.24  | 312   | 10           | 5.68  | 57   | 10          | 9.51  | 95  | 10         | 2.7   | 27    |    |
| 4     | Agriculture Technology Refinement, Validation etc | 2.58                       | 2.6    | 101   | 2.58         | 2.14  | 83   | 2.58        | 1.57  | 61  | 2.58       | 2.715 | 105   |    |
| 5     | Administrative                                    | ATMA                       | 6.9    | 2.507 | 36           | 6.9   | 5.39 | 78          | 6.9   | 2.1 | 30         | 6.9   | 1.724 | 25 |

|   |  |        |         |    |       |        |    |        |       |    |        |        |     |
|---|--|--------|---------|----|-------|--------|----|--------|-------|----|--------|--------|-----|
|   | Expenditure like institutions  |        |         |    |       |        |    |        |       |    |        |        |     |
|   | Man power component  | 60.77  | 46.174  | 76 | 76.61 | 60.11  | 78 | 67.56  | 53.95 | 80 | 72.08  | 52.24  | 72  |
| 6 | Other Innovative Activities (Display board, PICO projectors, low cost film, HH Divisies, Kalajathas (code - C+E+F) | 9.4    | 0.913   | 10 | 9.4   | 7.45   | 79 | 9.4    | 3.65  | 39 | 9.4    | 12.391 | 132 |
|   | Total  | 122.36 | 106.726 | 87 | 138.2 | 111.26 | 81 | 129.15 | 97.31 | 75 | 133.67 | 89.67  | 67  |

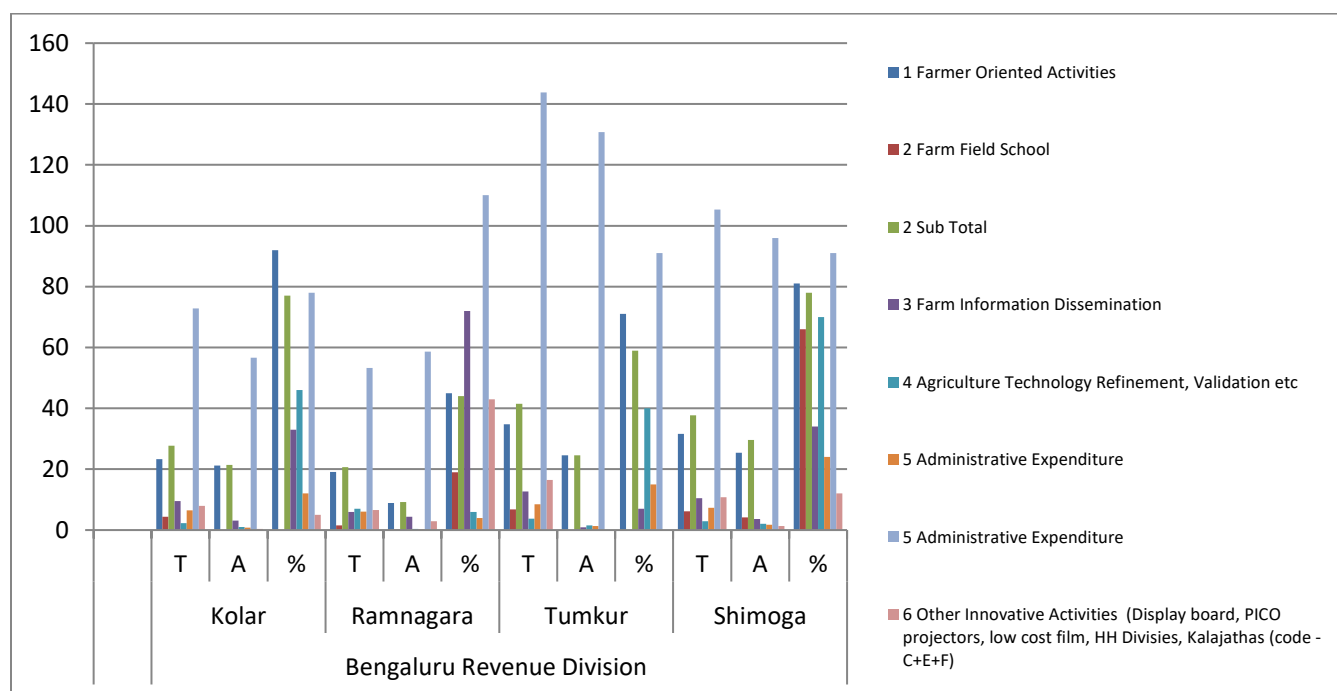
It was observed that farmer oriented activities including farm field schools took a lead with regard to financial target and covered to the tune of 69% and a gap of 31% indicating the need of greater involvement in implementing the ATMA project. Though the expenditure was almost 100% with regard to administrative expenses component. There is need of more involvement of line department officers in reaching the unreached through various means while transmitting the knowledge, which was only 69%.



**Table: 4**

| Sl No | Broad Activity             | Bengaluru Revenue Division |       |    |           |      |    |        |       |    |         |        |    |
|-------|----------------------------|----------------------------|-------|----|-----------|------|----|--------|-------|----|---------|--------|----|
|       |                            | Kolar                      |       |    | Ramnagara |      |    | Tumkur |       |    | Shimoga |        |    |
|       |                            | T                          | A     | %  | T         | A    | %  | T      | A     | %  | T       | A      | %  |
| 1     | Farmer Oriented Activities | 23.26                      | 21.24 | 92 | 19.11     | 8.88 | 45 | 34.74  | 24.57 | 71 | 31.57   | 25.44  | 81 |
| 2     | Farm Field School          | 4.41                       | 0     | 0  | 1.53      | 0.29 | 19 | 6.77   | 0     | 0  | 6.18    | 4.147  | 66 |
|       | Sub Total                  | 27.67                      | 21.42 | 77 | 20.64     | 9.17 | 44 | 41.51  | 24.57 | 59 | 37.75   | 29.587 | 78 |

|       |   |        |       |    |       |        |     |       |        |    |        |        |    |
|-------|---|--------|-------|----|-------|--------|-----|-------|--------|----|--------|--------|----|
| 3     | Farm Information Dissemination  | 9.5    | 3.1   | 33 | 6     | 4.343  | 72  | 12.7  | 0.92   | 7  | 10.5   | 3.61   | 34 |
| 4     | Agriculture Technology Refinement, Validation etc   | 2.28   | 1.05  | 46 | 6.98  | 0.4    | 6   | 3.78  | 1.5    | 40 | 2.88   | 2.03   | 70 |
| 5     | Administrative Expenditure  | 6.5    | 0.78  | 12 | 6.1   | 0.265  | 4   | 8.5   | 1.29   | 15 | 7.3    | 1.78   | 24 |
|       | ATMA like institutions<br>Man power component   | 72.84  | 56.64 | 78 | 53.23 | 58.612 | 110 | 143.8 | 130.75 | 91 | 105.36 | 95.97  | 91 |
| 6     | Other Innovative Activities (Display board, PICO projectors, low cost film, HH Divisies, Kalajathas (code - C+E+F)) | 8      | 0.4   | 5  | 6.6   | 2.87   | 43  | 16.5  | 0      | 0  | 10.8   | 1.3    | 12 |
| Total |   | 126.79 | 83.39 | 66 | 99.55 | 75.666 | 76  | 226.8 | 159.03 | 70 | 174.49 | 134.28 | 77 |



**Table: 5 ATMA Broad Activity wise/ District wise Financial Targets & Achivements 2017 -18**

| Sl No | Broad Activity                 | Kalaburgi Revenue Division |       |    |       |       |    |           |       |     |
|-------|--------------------------------|----------------------------|-------|----|-------|-------|----|-----------|-------|-----|
|       |                                | Bellary                    |       |    | Bidar |       |    | Kalaburgi |       |     |
|       |                                | T                          | A     | %  | T     | A     | %  | T         | A     | %   |
| 1     | Farmer Oriented Activities     | 31.57                      | 28.63 | 91 | 23.26 | 12.18 | 52 | 31.57     | 22.58 | 72  |
| 2     | Farm Field School              | 6.18                       | 4.98  | 81 | 4.41  | 0     | 0  | 6.18      | 6.18  | 100 |
|       | Sub Total                      | 37.75                      | 33.61 | 89 | 27.67 | 12.18 | 44 | 37.75     | 28.76 | 76  |
| 3     | Farm Information Dissemination | 10.5                       | 8.73  | 83 | 9.5   | 2.05  | 22 | 10.5      | 5.71  | 54  |

|              |   |                        |               |                |           |               |              |           |               |              |           |
|--------------|---|------------------------|---------------|----------------|-----------|---------------|--------------|-----------|---------------|--------------|-----------|
| 4            | Agriculture Technology Refinement, Validation etc   |                        | 2.88          | 2.873          | 100       | 2.28          | 0.9          | 39        | 2.88          | 2.5          | 87        |
| 5            | Administrative Expenditure  | ATMA like institutions | 7.3           | 2.423          | 33        | 6.5           | 0.41         | 6         | 7.3           | 1.07         | 15        |
|              |   | Man power component    | 71.33         | 52.01          | 73        | 79.63         | 55.58        | 70        | 89.43         | 45.88        | 51        |
| 6            | Other Innovative Activities (Display board, PICO projectors, low cost film, HH Divisies, Kalajathas (code - C+E+F)) |                        | 10.8          | 10.44          | 97        | 8             | 0            | 0         | 10.8          | 2            | 19        |
| <b>Total</b> |   |                        | <b>140.55</b> | <b>110.146</b> | <b>78</b> | <b>133.58</b> | <b>71.12</b> | <b>53</b> | <b>158.66</b> | <b>85.92</b> | <b>54</b> |

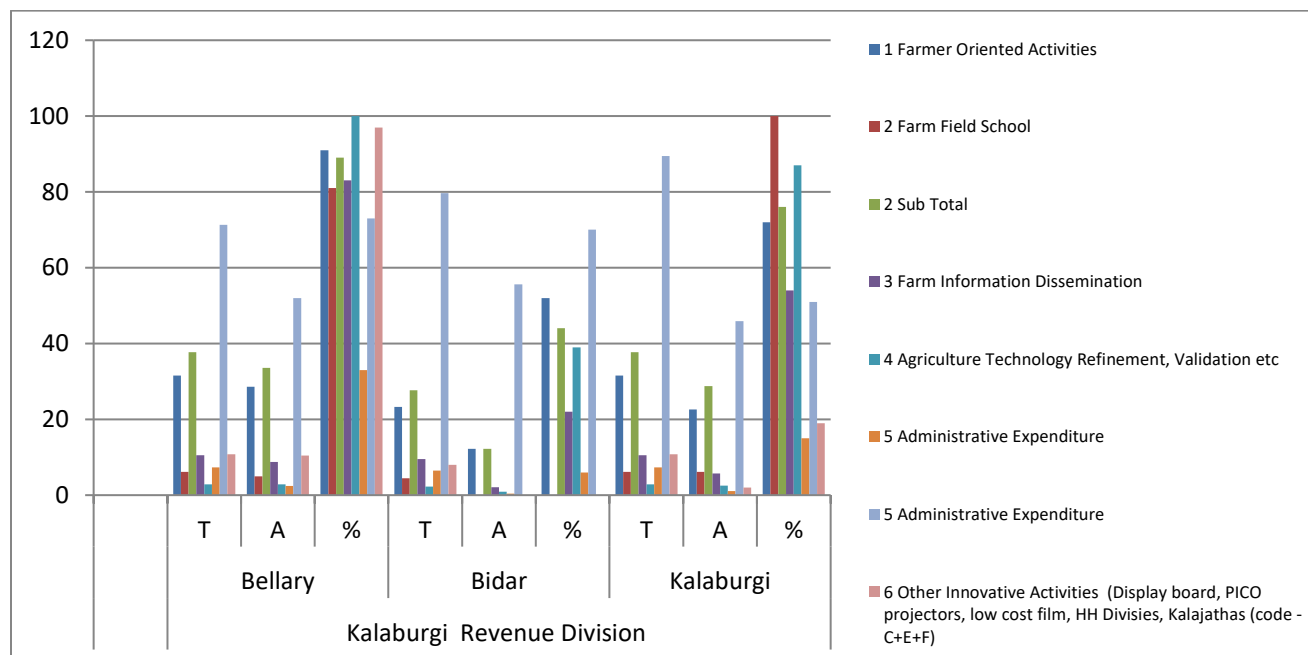
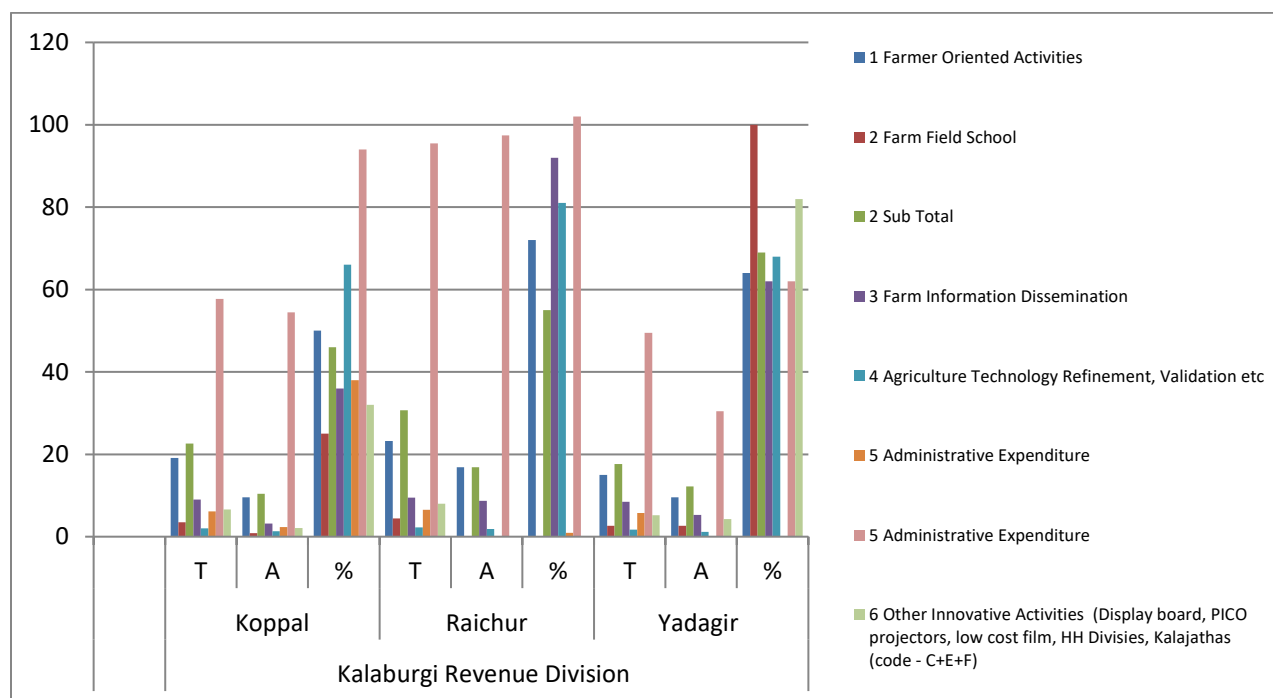


Table: 6

| Sl No | Broad Activity                 | Kalaburgi Revenue Division |       |    |         |       |    |         |       |     |
|-------|--------------------------------|----------------------------|-------|----|---------|-------|----|---------|-------|-----|
|       |                                | Koppal                     |       |    | Raichur |       |    | Yadagir |       |     |
|       |                                | T                          | A     | %  | T       | A     | %  | T       | A     | %   |
| 1     | Farmer Oriented Activities     | 19.11                      | 9.53  | 50 | 23.26   | 16.82 | 72 | 14.96   | 9.54  | 64  |
| 2     | Farm Field School              | 3.53                       | 0.88  | 25 | 4.41    | 0     | 0  | 2.65    | 2.64  | 100 |
|       | Sub Total                      | 22.64                      | 10.41 | 46 | 27.67   | 16.82 | 61 | 17.61   | 12.18 | 69  |
| 3     | Farm Information Dissemination | 9.00                       | 3.2   | 36 | 9.50    | 8.71  | 92 | 8.5     | 5.27  | 62  |



|              |  |                        |               |              |           |               |               |           |              |              |           |
|--------------|--|------------------------|---------------|--------------|-----------|---------------|---------------|-----------|--------------|--------------|-----------|
| 4            | Agriculture Technology Refinement, Validation, adoption etc  |                        | 1.98          | 1.3          | 66        | 2.28          | 1.85          | 81        | 1.68         | 1.14         | 68        |
| 5            | Administrative Expenditure   | ATMA like institutions | 6.1           | 2.32         | 38        | 6.5           | 0.06          | 0.92      | 5.78         | 0            | 0         |
|              |  | Man power component    | 57.76         | 54.46        | 94        | 95.46         | 97.45         | 102       | 49.49        | 30.46        | 62        |
| 6            | Other Innovative Activities (Display board, PICO projectors, low cost film, HH devices, Kalajathas (code - C+E+F)) |                        | 6.6           | 2.09         | 32        | 8.00          | 0             | 0         | 5.2          | 4.28         | 82        |
| <b>Total</b> |  |                        | <b>104.08</b> | <b>73.78</b> | <b>71</b> | <b>149.41</b> | <b>124.89</b> | <b>84</b> | <b>88.15</b> | <b>53.33</b> | <b>66</b> |



**District Level Activities:**

The Physical & Financial Targets and Achievements of ATMA Activities are broadly grouped into (i) Farmer oriented activities, (ii) Farm information dissemination, (iii) Agricultural Technology refinement, validation, adoption etc.,(iv) Establishment of ATMA like institutions, man power component (Administrative expenses) and (v) Others like, innovative activities,

display boards, low cost films, GPRS service charges, kala jathas. The review of performance is narrated below.

- 1) a) Farmer Oriented Activities including FFS (Bengaluru RD) :-** The financial progress is good in case of Chikkaballapura-93%, Kolar-77% Bengaluru-74%, and Chitradurga-81%, followed by Shimoga-78% is satisfactory. The remaining four districts the progress is average (Tumkur-59%, Davangere-55%, Ramanagara -44%. The highest expenditure of Rs. 30.49 lakhs against a target of Rs. 32.17 lakhs is seen in Chikkaballapura, which amounts 93.21%

**b) Farmer Oriented Activities including FFS (Kalaburgi RD) :-** Bellary – (89%) and Kalaburgi falls under good category, followed by Raichur- 61%, Kalaburgi – 76%, Yadagir-69% which are satisfactory. The remaining two districts namely Koppal – 46% and Bidar – 44% is average,
- 2) a) Farm Information Dissemination (Bengaluru RD) :-** Only two district viz Chitradurga-95% and Bengaluru-312% falls under good and Ramnagara-72% comes under satisfactory category. The remaining districts namely Chikkaballapura-57% falls under average and where as Davanagere-27%, Kolar-33%, Tumkur-7%, Shimoga-34% falls under below average category. The highest expenditure of 9.51 lakhs against Rs. 10.00 lakhs target is noticed in Chitradurga district which amounts to 95%. Bengaluru district exceeded the target by 212%

**b) Farm Information Dissemination (Kalaburgi RD) :-** Two districts namely Bellary-83%, and Raichur -92% falls under good category whereas Yadgir-62% and Kalaburgi-54% comes under satisfactory. The remaining two districts Bidar-22% and Koppal-36% falls under below average. The highest expenditure of Rs.8.73 lakhs against a target of RS.10.50 lakhs is seen in Bellary district which works out to 83% and lowest is Bidar district -22%
- 3) a) Agricultural Technology, Refinement and Validation (Bengaluru RD) :-** Three districts namely Davanagere -108%, Bengaluru – 100% and Chikkaballapura-83%, falls under good, where as Shimoga and Chitradurga falls under satisfactory category. The remaining districts Kolar-46% is average category and two districts namely Tumkur-40% and Ramanagara-6% falls under below average. The highest expenditure of 2.715 lakhs incurred against target of 2.58 lakhs in case of Davanagere district which amounts to 105%. The lowest expenditure in respect of Bengaluru district is only 6%

**b) Agricultural Technology Refinement and Validation (Kalaburgi RD) :-** Bellary -83%, Raichur -92%, Kalaburgi-78% fall under good, whereas Koppal-68%, Yadgir-68% comes under satisfactory category. The remaining districts Bidar-39% falls under below average. The highest expenditure of Rs. 2.873 lakhs incurring against target of Rs. 2.88 lakhs in bellary district which amounts to about 100%. The lowest is Bidar district 39%

- 4) a) Administrative Expenditure ATMA like Institutions (Bengaluru RD):-** Only Chikkaballapura-78% falls under satisfactory category, whereas the remaining seven districts viz Chitradurga-30%, Kolar-12%, Davanagere-20%, Tumkur-15%, Shimoga-23%, Bengaluru-36% and Ramanaga-4% falls under below average. The highest expenditure of Rs. 5.39 lakhs incurred against a target of Rs. 6.90 lakhs is in Chikkaballapura district which worksout to 78%. The lowest expenditure is in RamanagaraDistrict-4%
- b)Administrative Expenditure ATMA like Institutions (Kalaburgi RD):-** Only Belary and Koppal district falls under satisfactory category, where as the remaining four district falls under below average category.
- 5) a) Administrative Expenditure – Man power component (Bengaluru RD) :-** Only three districts viz Ramanagara-110%, Tumkur-91%, Shimoga-91% falls under good category, where as remaining five districts namely Chitradurga -80%, Bengaluru-76%, Chikkaballapura-78%, Davanagere-72% and Kolar-73% falls under satisfactory. No district under average and below average. The highest expenditure incurred is Rs. 130.75 lakhs against target of Rs.143.80 lakhs in Tumkur district and which amounts to 91%.
- b) Administrative Expenditure – Man power component (kalaburgi RD) :-** only Koppal-94%, Raichur-102% falls under category good, where as remaining four district viz Bidar-70%, Kalaburgi-65, Yadgir -62, Bellary-73% falls under satisfactory.
- 6) a) Other Innovative Activities (Bengaluru RD):-** Only Davanagere-148% and Chikkaballapura -79% falls under good and satisfactory category respectively, where as Davanagere district -132%exceeded the target by 32% and remaining five districts falls under below average viz Chitradurga -39%, Ramanagara-38%, Shimoga-10%. Kolar and Tumkur -0%. The lowest expenditure is zero in Tumkur district.
- b) Other Innovative Activities (Kalaburgi RD):-** Only two districts viz Bellary - 97%, Yadagir-82% falls under good. Kalaburgi-19% where as remaining four districts viz koppal-32%, Bidar, Kalaburgi-19% and Raichur -0 are falls under below average. The highest expenditure of Rs.10.44 lakhs against target of Rs.12.44 lakhs which amounts to 97% is in Bellary.

#### **Prescribed Process of Implementation:**

The ATMA guidelines stipulate that soon after the receipt of approved district action plan from SNO, a meeting of the ATMA DLASC (Steering Committee) should be convened under the Chairmanship of the CEO of the concerned districts by the PD of ATMA. The approved action plan has to be placed and discussed in the ATMA Governing Bodies in the presence of all the members. Taluk wise and sector wise cafeteria of activities have to be discussed and any

modifications and/or procedures for implementation have to be discussed. After the Governing Bodies meeting, the proceedings and the approved taluk wise and sector wise action plan have to be communicated to the taluk Assistant Director of Agriculture by the PD. The ADA have to convene a meeting of the Block Technology Team and discuss the approved action plan in the presence of all the implementing Officers of other allied sectors like Horticulture, Animal husbandry, Sericulture, Forestry, Fisheries etc.,. The Block Technology Team also discusses the availability of funds and allocates the funds to each implementing Officer. After the Block Technology Team meeting, the process of implementation starts.

It is seen that the State Nodal Officer (SNO) have communicated the approved action plan to the District ATMAs in the month of June 2017. The meeting of the ATMA Governing Bodies should have been convened by the PDs in the month of June / July 2017. As observed during the visit of evaluation team, the Project Director's of Bengaluru & Kalaburgi RD have conducted the meetings during later months from August 2017 onwards.

### **Review of the implementation of the scheme against guidelines**

It is an concurrent Monitoring & Evaluation for 2017-18 under ATMA scheme (vide DOA letter # DOA/ATMA/M&E/ 2017-18 dated 11-10-2017) The evaluation process undertaken by M/s INRIMT, Bengaluru was based on the ToR which is elaborates its objectives and taken all issues and decided to review concurrently the ongoing process rather revisiting earlier ATMA projects in the Department of Agriculture. Indeed, the concurrent Evaluation process has led to give process solution under various issues of implementation i.e technical as well as financial issues were discussed and solutions were given for the success of the ongoing project in order to incur financial expenditure of the year as per the budget provision

However, it is further to strengthen the observations that almost all the guidelines have been taken note by the implementing agency with a few lapses specifically onover burdening of ATMA staff in other programmes of the Department. Further it is also observed that there was considerable delay in release of grants to other line departments, lack of ownership of project by all stakeholders especially line departments in particular. In addition, the SREPs have not been revised even after completion of more than five years in some of the districts. However they have now completed the task fulfilling the objectives of the scheme



**Chapter - 4****PROBLEM STATEMENT**

The scheme envisages strengthening Research – Extension - Farmer linkages, coordinating and managing the activities of different agencies, increasing the quality, type of technology dissemination and developing linkages with all line departments, research organizations, NGO's with substantial representation of farmer organization, women farmers, research extension units in each district. In order to achieve the above objectives, the preparation of action plan has to be mainly focused on the key extension reforms as under:

1. Encouraging multi-agency extension strategies involving public-private extension service providers / NGO's
2. Bottom-up planning.
3. Adopting group approach and reaching the unreached farmers.
4. Facilitating convergence of farmer centric programmes in planning, execution and implementation.
5. Addressing gender concerns by mobilising farm women into groups and providing training to them.
6. Model villages selection in each RSK level

The above objectives shall be met through strengthened institutional arrangements, trained / dedicated personnel, innovative technology dissemination of content and revamped strategy by constituting / functioning of committees at state, district, block and village level as per timelines.

## Chapter - 5

### SCOPE, OBJECTIVES AND EVALUATION QUESTIONS

#### 5.1 Objective of the Scheme

The main objective of ATMA is:

- To strengthen research-extension-farmer linkages
- To co-ordinate and manage the activities of different agencies involved in technology adaption/ validation and dissemination at the district level and below,
- Increase the quality and type of technologies being disseminated,
- To move towards shared ownership of the agricultural technology system by key Stakeholder,
- To develop linkages/ new partnership with all line departments, Research Organizations, NGO's and agencies associated with agricultural development in the districts with substantial representation of farmer organizations and Women farmers, research extension units within the districts.

#### 5.2 Evaluation Scope, purpose and objectives:

The scope of the study is spread over 15 districts and 100 taluks of Belgaum and Mysore divisions. It covers the various activities covered under the scheme. The purpose is to examine the implementation process and assess the achievements of physical and financial targets under the scheme and to provide the necessary feedback for improving the impact of the scheme.

**The objectives are:**

1. To evaluate the process formulation of strategic Research Extension plan and the preparation of district, block village plans.
2. To examine the allocations to different activities under the scheme as per the Guidelines.
3. To examine the extent of capacity building of Government and non Government functionaries.
4. To study the various farm information dissemination activities undertaken in the State.
5. To evaluate the various farmers oriented activities under the scheme across the divisions.
6. To assess the formation of various groups for social mobilization such as Farmer Interest Groups, Commodity Interest groups and Food security groups under the scheme and the inclusion of SC/ST/OBC and women members in them.
7. To evaluate the extent of achievement in Research-farmer-extension linkages.
8. To assess the impact of the activities on economic conditions and knowledge base of the farmers.
9. To know the extent of awareness created by ATMA institutions.
10. To examine the extent of participation of the farmers in different ATMA activities.

Terms of reference for the study is presented in annexure – I (**Pages 79 - 90**)



## Chapter -6

### METHODOLOGY

The main objective of the study is to monitor and evaluate the ATMA Scheme implemented in Karnataka State during the year 2017-18 in Bengaluru and Gulbarga Revenue divisions. The scheme is being implemented in all 14 districts of Bengaluru and Kalaburgi revenue divisions.

#### 6.1 Sampling Method

As per the Terms of Reference, all the 14 districts of Bengaluru & Kalaburgi Revenue divisions have been covered under the study. Further, in each of the districts, one sample taluk have been selected based on simple random sampling method. If the selected taluks lack the desired coverage compared to other taluks, then again, simple random sampling method have been followed, leaving the earlier selected taluks. Accordingly, sample taluks selected for the purpose of CM & E are given as under:

**Table: 7**

| Districts                         |               | Sample Taluks | Samples           |
|-----------------------------------|---------------|---------------|-------------------|
| <i>Bengaluru Revenue Division</i> |               |               |                   |
| 1                                 | Bengaluru     | Doddabalapura | 10% or 10 members |
| 2                                 | Chikabalapura | Gudibande     | 10% or 10 members |
| 3.                                | Chitradurga   | Chitradurga   | 10% or 10 members |
| 4                                 | Davanagere    | Honnali       | 10% or 10 members |
| 5                                 | Kolar         | Srinivasapura | 10% or 10 members |
| 6                                 | Ramanagar     | Magadi        | 10% or 10 members |
| 7                                 | Tumkur        | Tiptur        | 10% or 10 members |
| 8                                 | Shimoga       | Thirthahalli  | 10% or 10 members |
| <i>Kalaburgi Revenue Division</i> |               |               |                   |
| 1                                 | Bellary       | Kudligi       | 10% or 10 members |
| 2                                 | Bidar         | Bidar         | 10% or 10 members |
| 3                                 | Kalaburgi     | Jewargi       | 10% or 10 members |
| 4                                 | Koppala       | Gangavathi    | 10% or 10 members |
| 5                                 | Raichur       | Devadurga     | 10% or 10 members |
| 6                                 | Yadgir        | Yadgir        | 10% or 10 members |

In the selected taluks, at least one sub-component each from out of State level activities, District level activities and all taluk level activities (given in the cafeteria of activities as per Annexure to ToR) have been covered for field visits, personal interviews and focused group discussions. Care has been taken to ensure that within the sample, the State and District level activities is evaluated in at least one of the taluks forming the sample. All the predominant farming systems in each district have been covered. The taluks covered in the earlier years not considered for sampling of taluks during 2017-18

As per the ToR, the sample size for the beneficiaries is restricted to 10% or 10 members which ever is less in each sample taluk. A multi-disciplinary team of experts consisting of Agriculture Expert, Social Scientist and Research Assistants were involved in the study and the study was taken up as follows:

1. The primary data was collected through personal interview method from the respondents through a structured schedule.
2. The secondary data were collected from the Department of Agriculture, (State, District and Taluk level), other related development departments, SAMETI / SAU, Bengaluru & Dharwad covering all aspects of the scheme.
3. Focussed Group Discussions were held with all the implementing officers / agencies / farmer groups and farmers.
4. In accordance with the TOR, multi level questionnaire schedule have been designed for State, SAMETI, District, Taluk and field level including individual beneficiaries.

## **6.2 Office and Field visits**

The required secondary data along with scheme guidelines were collected from the Additional Director of Agriculture (HRD) / Coordinator, ATMA Cell, Bengaluru. All the 15 districts were visited by the evaluation team during the period December 2017 to February 2018 for the first spell of visits for submission of interim CM and E report and April 2018 to June 2018 for the final (second) spell of visits for submission of draft CM and E report by confirming the visiting dates in advance from the concerned PD's and ADA's. During the field visits, the team had detailed interactions with the PD / JDA's, DDA's, ADA's of the Districts followed by separate meeting cum interaction with DDA's ADA's, BTM's and

ATM's of respective districts/ sample taluks. During the meeting/ interaction with ATMA Staff, the required data was collected and entered in the pre-tested questionnaire formats along with feedback on physical / financial targets and achievements based on approved action plans of 2017-18. Allied sector staff from Horticulture, Animal Husbandry, Sericulture, Fisheries and Forestry also participated in the interactions, in general.

BTM's (one per Taluk) at Taluk level and ATM's (three per Taluk at Raitha Samparka Kendra (RSK) level) are the field functionaries under the supervision of the Taluk Assistant Director of Agriculture responsible for planning and implementation of various activities of ATMA. All the cafeteria of activities approved under annual plans of 2017-18 were critically reviewed and the evaluation team had interactions with the concerned about their need, process, usage, impact, coverage of beneficiaries etc., and reasons for less or no progress and other required data were recorded.

Further, based on the data collected and interactions held in 2-4 villages, different activities and their beneficiaries covering 10-15 samples were selected for field visits and interactions. During the visits, interactions were held with the beneficiaries of Exposure Visits, Trainings, Kissan gosties, farm field schools, Demonstrations, FIG's and award winners etc., as the case may be, covering a 10% or 10 members whichever is less samples in each sample taluk. So also, Focused Group Discussions (FGD's) were held in the sample villages and various issues relating to agriculture and allied sector programmes were discussed. Emphasis was also made to have interactions with women beneficiaries/ groups and documented the findings.

The primary data was collected during the course of Concurrent Monitoring and Evaluation by way of field visits. Discussions and interactions with Officers of Agriculture, Allied sectors, SAMETI, KVK, farmer groups and farmers etc., at State, District, Taluk and Village level were held and information gathered has been collated, processed, tabulated, analyzed in comparison with the secondary data collected from different offices and inferences drawn and suggestions presented in this report. The district wise and taluk wise details of activities covered and villages visited are provided in Table 8 & 9.

### 6.3 Limitations

The field visits were delayed due to busy schedule of project staff due to state Assembly elections (April / May 2018), meetings, workshop, and training programmes. Further, there was considerable delay in receipt of compliance reports / action taken reports (Oct 2017 to March 2018, Quarterly review reports, second spell field review reports and sector wise beneficiary statements review report etc).

| Sl. No. | Bengaluru RD / Date of Visits     | Sample Taluk / Date of Visits | Villages Visited   | Interactions held with Beneficiaries ( NO's) |    |            |     |     |         |     |        |     |                      |
|---------|-----------------------------------|-------------------------------|--|--|----|------------|-----|-----|---------|-----|--------|-----|----------------------|
|         |                                   |                               |  | Demo farmers                                 | EV | Train- ing | FIG | CIG | FD / CG | FFS | Awards |     | Total Benefici aries |
|         |                                   |                               |  |  |    |            |     |     |         |     | Tq     | Dis |                      |
| 1       | Bengaluru<br>23.01.2018           | DB Pura<br>24.01.2018         | Kolagina Juganahalli,<br>Koluru, Shrevanuru,<br>Sigenahalli, Kodihalli | 5  | -  | -          | -   | -   | -       | -   | -      | -   | 5                    |
|         |                                   |                               | Melkote  | -  | -  | -          | -   | -   | 1       | -   | -      | 1   |                      |
|         |                                   |                               | Karepura   | -  | -  | -          | -   | -   | 1       | -   | -      | 1   |                      |
|         |                                   |                               | Arodi  | -  | -  | -          | -   | -   | 1       | -   | -      | 1   |                      |
| 2       | Chikaballa-<br>pura<br>02.01.2018 | Gudibande<br>02.01.2018       | Kestur   | -  | -  | -          | 6   | -   | -       | -   | -      | -   | 6                    |
|         |                                   |                               | Chikkakurabarahalli  | -  | 4  | 4          | -   | -   | -       | -   | -      | -   | 8                    |
|         |                                   |                               | Mudhareddy halli   | -  | -  | -          | -   | -   | -       | -   | 1      | -   | 1                    |
|         |                                   |                               | Ullodu   | -  | -  | -          | -   | -   | -       | -   | 1      | -   | 1                    |
|         |                                   |                               | Kaarigatemanahalli   | -  | -  | 1          | -   | -   | -       | -   | -      | -   | 1                    |
| 3       | Chitradurga<br>09.02.2018         | Chitradurga<br>10.02.2018     | B R halli  | 19   | -  | -          | -   | -   | -       | -   | -      | -   | 19                   |
|         |                                   |                               | Siddapura  |  | -  | -          | -   | -   | -       | -   | -      | -   | -                    |
| 4       | Davanagere<br>06.02.2018          | Honnali<br>07.02.2018         | Kencheekoppa   | 5  | 4  | -          | 6   | -   | -       | -   | -      | -   | 15                   |
| 5       | Kolar<br>02.02.2018               | Srinivaspura<br>02.02.2012    | Kattibesahalli   | 1  | -  | -          | -   | -   | -       | -   | -      | -   | 1                    |
|         |                                   |                               | Dambala  | 1  | -  | -          | -   | -   | -       | -   | -      | -   | 1                    |
|         |                                   |                               | Kolaturu   | 1  | -  | -          | -   | -   | -       | -   | -      | -   | 1                    |
|         |                                   |                               | Allavatte  | 1  | -  | -          | -   | -   | -       | -   | -      | -   | 1                    |
| 6       | Ramanagar<br>16.02.2018           | Magadi<br>20.02.2018          | Alasabele  | -  | -  | -          | 4   | -   | -       | -   | -      | -   | 4                    |
|         |                                   |                               | Mathagondahalli  | -  | -  | -          | 4   | -   | -       | -   | -      | -   | 4                    |
|         |                                   |                               | Gudemaranahalli  | -  | -  | -          | 4   | 6   | -       | -   | -      | -   | 10                   |
| 7       | Tumkur<br>07.02.2018              | Tiptur<br>12.02.2018          | Arallakoppe  | -  | -  | -          | 4   | -   | -       | -   | -      | -   | 4                    |
|         |                                   |                               | Paravakondanahalli   | -  | -  | -          | -   | 4   | -       | -   | -      | -   | 4                    |
|         |                                   |                               | Vittalapura  | -  | -  | -          | -   | 4   | -       | -   | -      | -   | 4                    |
| 8       | Shimoga<br>08.02.2018             | Thirthahalli<br>09.02.2018    | Bejavalli  | -  | -  | 2          | 5   | -   | -       | 1   | -      | 8   |                      |

| Sl. No. | Bengaluru RD / Date of Visits | Sample Taluk / Date of Visits | Villages Visited   | Interactions held with Beneficiaries ( NO's) |    |            |     |     |         |     |        |                     |
|---------|-------------------------------|-------------------------------|--|--|----|------------|-----|-----|---------|-----|--------|---------------------|
|         |                               |                               |  | Demo farmers                                 | EV | Train- ing | FIG | CIG | FD / CG | FFS | Awards | Total Beneficiaries |
| 1       | Bellary<br>23.01.2018         | Kudlagi<br>24.02.2018         | Pujarahalli  | -  | 1  | -          | -   | -   | -       | -   | -      | 1                   |
|         |                               |                               | Gajapura   | -  | -  | -          | -   | -   | -       | -   | 1      | -                   |
|         |                               |                               | Kakukppi   |  | 2  |            |     |     |         |     |        |                     |
| 2       | Bidar<br>29.01.2018           | Bidar<br>29.01.2018           | Amdalpada  | 4  | -  | -          | -   | -   | -       | -   | -      | 4                   |
|         |                               |                               | Kalluru,<br>Almaspur,<br>kajapur, pethapur,<br>manahalli,<br>malegaon,<br>kamstana,  | -  | 6  | 8          | -   | -   | -       | -   | -      | -                   |
| 3       | Kalaburgi<br>30.01.2018       | Jewargi<br>30.01.2018         | Kodekar  | 2  | -  | -          | -   | -   | -       | -   | -      | 2                   |
|         |                               |                               | Yelgoda  | 1  | -  | -          | -   | -   | -       | -   | -      | 1                   |
|         |                               |                               | Andhola  | 1  | -  | -          | -   | -   | -       | -   | -      | 1                   |
|         |                               |                               | Ajer   | 2  | -  | -          | -   | -   | -       | -   | -      | 2                   |
|         |                               |                               | Elavara, Nelogi,<br>jerthgi, jewargi   | -  | 12 | -          | -   | -   | -       | -   | -      | -                   |
| 4       | Koppal<br>22.02.2018          | Gangavati<br>23.02.2018       | Dasanallu  | -  | -  | -          | 3   | -   | -       | -   | -      | 3                   |
|         |                               |                               | Basanala   | -  | -  | -          | 1   | -   | -       | -   | -      | 1                   |
|         |                               |                               | Lakshmicamp  | -  | -  | -          | -   | 4   | -       | -   | -      | 4                   |
|         |                               |                               | Sidhapura  | -  | -  | -          | 4   | -   | -       | -   | -      | 4                   |
|         |                               |                               | Maralli,<br>Kanakagiri,<br>Layadahunsi   | 3  | -  | -          | -   | -   | -       | -   | -      | -                   |
| 5       | Raichur<br>01.02.2018         | Devdurga<br>01.02.2018        | Gopalpura  | 1  | -  | -          | -   | -   | -       | -   | -      | 1                   |
|         |                               |                               | Chigadigere,<br>jinnapura,<br>navalguda,<br>salkyapura,<br>masarakallu,<br>chikonnikere,<br>devadurga, arkere,<br>B. ganakallu | -  | 4  | 4          | 4   | -   | -       | -   | -      | -                   |
| 6       | Yadgir<br>31.01.2018          | Yadgir<br>01.02.2018          | chaptla  | 6  | -  | -          | 10  | -   | -       | -   | -      | 16                  |
| TOTAL   |                               |                               |  | 53   | 34 | 19         | 55  | 18  | -       | 4   | 3      | 186                 |

| <b>Table: 9 Field Visits - Second Spell</b> |   |                            |  |  |    |          |          |     |        |     |        |   |             |   |
|---|---|----------------------------|--|--|----|----------|----------|-----|--------|-----|--------|---|-------------|---|
| Sl. No.                                     | Bengaluru RD                            | Sample Taluk               | Villages Visited                                     | Interactions held with Beneficiaries ( NO's) |    |          |          |     |        |     |        |   | Total Bene. |   |
|   |   |                            |  | Demo farmers                                 | EV | Trg / KG | FIG/ FSG | CIG | FD/ CG | FFS | Awards |   |             |   |
|   |   |                            |  |  |    |          |          | Tq  | Dis    |     |        |   |             |   |
| 1   | Bengaluru<br>03.05.2018 /<br>25.05.2018 | DB Pura<br>18.07.2018      | Kisturu  | -  | -  | -        | 6        | -   | -      | -   | -      | - | 6           |   |
|   |   |                            | Durgenahalli   | -  | -  | -        | 4        | -   | -      | -   | -      | - | 4           |   |
|   |   |                            | Aarodi   | 1  | -  | -        | -        | -   | -      | -   | -      | - | -           | 1 |
|   |   |                            | Melukote   | 1  | -  | -        | -        | -   | -      | -   | -      | - | -           | 1 |
|   |   |                            | Doddabele mangala                                    | 1  | -  | -        | -        | -   | -      | -   | -      | - | -           | 4 |
| 2   | Chikaballapura<br>19.05.2018            | Gudibanda<br>23.07.2018    | Garudacharluhalli                                    | -  | -  | 12       | -        | -   | -      | -   | -      | - | 12          |   |
|   |   |                            | Daparathi  | -  | -  | 3        | -        | -   | -      | -   | -      | - | -           | 3 |
|   |   |                            | Muddareddi halli                                     | -  | -  | 2        | -        | -   | -      | -   | -      | - | -           | 2 |
|   |   |                            | Medimakalahalli                                      | -  | 1  | -        | -        | -   | -      | -   | -      | - | -           | 1 |
|   |   |                            | Amani Baira Sagara                                   | 1  | -  | -        | -        | -   | -      | -   | -      | - | -           | 1 |
| 3   | Chitradurga<br>18.05.2018               | Chitradurga<br>19.05.2018  | Bagallarangavaran ahalli                             | -  | 7  | 5        | -        | -   | -      | -   | -      | - | 12          |   |
| 4   | Davanagere<br>30.05.2018                | Honnali<br>31.05.2018      | Kenchanakoppa  | 1  | 6  | 4        | 3        | -   | -      | -   | 1      | 2 | 17          |   |
| 5   | Kolar<br>30.05.2018                     | Srinivaspura<br>31.05.2018 | Palya, vempalli, kotekutturu, machenalla, kotahudiya | -  | 5  | 5        | -        | -   | -      | -   | -      | - | 10          |   |
|   |   |                            | Kotarimudenahalli                                    | -  | -  | -        | -        | -   | -      | -   | -      | 1 | -           | - |
| 6   | Ramanagar<br>03.05.2018                 | Magadi<br>04.05.2018       | Akkinalluru  | -  | 15 | 4        | -        | -   | -      | -   | -      | - | 19          |   |
| 7   | Tumkur<br>17.05.2018                    | Tiptur<br>18.05.2018       | Paravakondana halli                                  | -  | 8  | 4        | -        | -   | -      | -   | -      | - | 12          |   |
|   |   |                            | Sathvalli  | -  | 3  | -        | -        | -   | -      | -   | -      | - | -           | 3 |
| 8   | Shimoga<br>28.05.2018                   | Thirthahalli<br>29.05.2018 | Adigallu   | 13   | -  | -        | -        | -   | -      | -   | -      | - | 13          |   |
| <b>Kalaburgi R D</b>                        |   |                            |  |  |    |          |          |     |        |     |        |   |             |   |
| 1   | Bellary<br>29.05.2018                   | Kudlgi<br>30.05.2018       | Pujarhalli   | 1  | -  | -        | 20       | -   | -      | -   | -      | - | 21          |   |
|   |   |                            | Hullikere  | 3  | -  | -        | -        | -   | -      | -   | 1      | - | 3           |   |
|   |   |                            | Morabanahalli  | 2  | -  | -        | -        | -   | -      | -   | -      | - | -           | 2 |
|   |   |                            | Kurubanhalli   | 1  | -  | -        | -        | -   | -      | -   | -      | - | -           | 1 |

|       |                         |                         |               |                     |           |                 |                 |            |               |            |               |            |                   |   |
|-------|-------------------------|-------------------------|---------------|---------------------|-----------|-----------------|-----------------|------------|---------------|------------|---------------|------------|-------------------|---|
|       |                         |                         | Akalapura     | 2                   | -         | -               | -               | -          | -             | -          | -             | -          | 2                 |   |
| 2     | Bidar<br>14.05.2018     | Bidar<br>15.05.2018     | Kamtanahalli  | -                   | 4         | -               | 4               | -          | -             | -          | -             | -          | 8                 |   |
|       |                         |                         | Kalluru - B   | -                   | 4         | -               | -               | -          | -             | -          | -             | -          | 4                 |   |
|       |                         |                         | Halmasapura   | 2                   | -         | -               | -               | -          | -             | -          | -             | -          | -                 | 2 |
|       |                         |                         | Kajapura      | 2                   | -         | -               | -               | -          | -             | -          | -             | -          | -                 | 2 |
|       |                         |                         | Amdalpada     | 1                   | -         | -               | -               | -          | -             | -          | -             | -          | -                 | 1 |
|       |                         |                         |               | <b>Demo farmers</b> | <b>EV</b> | <b>Trg / KG</b> | <b>FIG/ FSG</b> | <b>CIG</b> | <b>FD/ CG</b> | <b>FFS</b> | <b>Awards</b> |            | <b>Total Bene</b> |   |
|       |                         |                         |               |                     |           |                 |                 |            |               |            | <b>Tq</b>     | <b>Dis</b> |                   |   |
| 3     | Kalaburgi<br>15.05.2018 | Jewargi<br>16.05.2018   | Hanagragga    | 1                   | -         | -               | -               | -          | -             | -          | -             | -          | 1                 |   |
|       |                         |                         | Gawnahall     | 1                   | -         | -               | -               | -          | -             | -          | -             | -          | -                 | 1 |
|       |                         |                         | Justagi       | 1                   | -         | -               | -               | -          | -             | -          | -             | -          | -                 | 1 |
|       |                         |                         | Yalvara       | 1                   | -         | -               | -               | -          | -             | -          | -             | -          | -                 | 1 |
|       |                         |                         | Kadakllu      | 1                   | -         | -               | -               | -          | -             | -          | -             | -          | -                 | 1 |
| 4     | Koppal<br>04.06.2018    | Gangavati<br>04.06.2018 | Sahapura      | -                   | 1         | -               | -               | -          | -             | -          | -             | -          | 1                 |   |
|       |                         |                         | Budihalla     | -                   | -         | 2               | -               | -          | -             | -          | -             | -          | -                 | 2 |
|       |                         |                         | Gondaballu    | -                   | 2         | -               | -               | -          | -             | -          | -             | -          | -                 | 2 |
|       |                         |                         | Hasagal       | -                   | 1         | -               | -               | -          | -             | -          | -             | -          | -                 | 1 |
|       |                         |                         | Metagal       | -                   | 1         | -               | -               | -          | -             | -          | -             | -          | -                 | 1 |
| 5     | Raichur<br>17.05.2018   | Devadurga<br>18.05.2018 | Bomanahalli   | -                   | -         | 4               | -               | -          | -             | -          | -             | -          | 4                 |   |
| 6     | Yadgir<br>16.05.2015    | Yadgir<br>17.05.2018    | Kalabelagundi | -                   | -         | -               | -               | -          | -             | 15         | -             | -          | 15                |   |
| TOTAL |                         |                         |               | 37                  | 50        | 45              | 37              | -          | -             | 15         | 3             | 2          | 197               |   |

**Note:** EV:Exposure Visits, Trg: Training, FSG: Food Security Groups, CIG: Commodity Interest Groups, FD: Fields Days, KG: Kissan Gosties, FFS: Farmer Field School, Tq: Taluk, Dist: District

**Chapter - 7****DATA COLLECTION & ANALYSIS**

The performance of activities undertaken under ATMA scheme in Bengaluru and Kalaburgi Revenue Divisions during the year 2017-18 has been evaluated addressing the evaluation questions enlisted in item No. 9 of the Terms of Reference and an attempt has been made to seek appropriate answers. The present report embodies the outcome of two season evaluation covering the period 01.04.2017 to 31.03.2018. Following are the individual question-wise findings gathered during the field visits and based on secondary data provided by the Department.

1. Whether the plans prepared at village, block and district levels are used to bridge the gaps between potential and actual yields and for resource allocation at the state level, while preparing the annual plans? If, yes, to What extent and if not, why?

Implementation of any development programme in respect of Natural Resources management need to be appropriately surveyed, planned and executed in order to maintain the sustainability, economic productivity of eco system services in a long run. Hence, the planning, execution of any project should be from the grass root level by preparing the SREP once in five years as a vision document and should be revalidated and to accommodate newly identified gaps and emerging areas of extension and production system strategies.

Further , it is observed that majority of the districts have participated well in enhancing the actual yields of the crops to the tune of 10-15% on an average is a good achievement In addition there is scope for improvement in yield by adopting timely execution of the plan provided.

2. To what extent these plans are region/local specific recognizing the contains in improving the productivity of crops in particular and economic status of farming community in general.

These plans prepared are highly regional & location specific specially in recognizing the constraints which are impediments in improving the productivity of crops. Indeed, the technological interventions adopted by majority of the districts are in



tune with the local /regional requirements and have benefitted in improving the economic status of farming community is more from animal component i.e IFS.

3. SREP's to be revisited after every five years as per concurrent evaluation report of 2015-16 (CER). It is reported that this is not being done in any of the districts. What are the reasons for it and what measures are taken to do it?

As per mandate of ATMA , it is necessary to revisit revise /modify / update once in five years the SREP taking into account the regional / locational specific issues to revalidate the SREP. It is observed that majority of the districts have taken action to revisit the SREP's but have failed to submit the final accepted SREP to Department of Agriculture except Bengaluru, Chikaballapura, Davanagere Chitradurga, Shimoga in Bengaluru RD and nil in case of Kalaburgi RD districts. However some are in various stages of progress. This needs follow-up action

### **Analyses the contents, their relevance and review revision of SREP**

The team of experts from IN-RIMT has visited the sample taluks and all districts and reviewed the preparation, process and provided the technical inputs wherever needed, that apart in almost all the taluks & districts, the technical guidelines needed that apart in almost all the taluk & districts the technical guidelines needed fully adopted. In the SREP's has been fully adopted and there are no deviation except the delay in the finalization and submission of SREP's in some of the districts. Among the district, the district like Mysore, Belgaum, UK, Gadag, D.Kannada, Shimoga are exemplary

4. Illustrate few best examples where convergence of the Departments is done in implementing the SREP and annual work plans for filling the gap between potential and actual yields

The major objective of ATMA scheme is for convergence of line Departments in implementation of SREP and work plan of respective Districts.

Convergence and participation of Agricultural and allied sectors viz Horticulture, Animal Husbandry, Fisheries, Sericulture, Marketing has been observed in implementation of ATMA scheme during the year 2017-18. However the participation of sericulture, Fisheries and Forestry is below average in case of Kalaburgi RD and no beneficiaries from these sectors. However It is comparatively better compared to previous years

With regard to implementation of ATMA, the yard sticks followed in convergence of extension work, by the districts & sectors wise like, details are given below.

a) Convergence of Development Department in implementation of ATMA activities across districts.

Majority of Development Departments viz Animal Husbandry, Horticulture, Sericulture have been involved in implementation of ATMA activities. The RD wise & District wise details furnished in the following table.

**Table: 10 District wise / Sector wise Convergence Departments / Sectors**

| Sl. No.   | R.D / District      | Agriculture | Horticulture | Animal Husbandry | Sericulture | Forestry | Fisheries | Agricultural Market / APMC Training |
|-----------|---------------------|-------------|--------------|------------------|-------------|----------|-----------|-------------------------------------|
| <b>I</b>  | <b>Bengaluru RD</b> |             |              |                  |             |          |           |                                     |
| 1         | Bengaluru           | √           | √            | √                | √           | ×        | √         | ×                                   |
| 2         | Chickballapur       | √           | √            | √                | √           | ×        | √         | ×                                   |
| 3         | Chitradurga         | √           | √            | √                | √           | ×        | ×         | ×                                   |
| 4         | Davanagere          | √           | √            | √                | √           | √        | √         | ×                                   |
| 5         | Kolar               | √           | √            | √                | √           | √        | √         | ×                                   |
| 6         | Ramanagar           | √           | √            | √                | √           | ×        | ×         | ×                                   |
| 7         | Shimoga             | √           | √            | √                | √           | ×        | √         | ×                                   |
| 8         | Tumkur              | √           | √            | √                | √           | √        | √         | ×                                   |
| <b>II</b> | <b>Kalaburgi RD</b> |             |              |                  |             |          |           |                                     |
| 9         | Bellary             | √           | √            | √                | √           | ×        | ×         | ×                                   |
| 10        | Bidar               | √           | √            | √                | ×           | ×        | ×         | ×                                   |
| 11        | Kalaburgi           | √           | √            | √                | ×           | ×        | ×         | ×                                   |
| 12        | Koppal              | √           | √            | √                | ×           | ×        | ×         | ×                                   |
| 13        | Raichur             | √           | √            | √                | ×           | ×        | ×         | ×                                   |
| 14        | Yadagir             | √           | √            | √                | ×           | ×        | ×         | ×                                   |

However, there is need for strengthening convergence of fisheries department in majority of districts, besides more emphasis should be given to strengthen forestry, Agricultural Marketing Departments in almost all the districts.

b) Convergence with Research system

In order to take forward an innovative technology / technologies, it is very much essential to have strong linkages between development departments and Agriculture Research i.e, Agricultural universities. Therefore, it is emphasized that Research - Extension - Farmer (R – E – F linkages) should be strengthened with all relevant scientific information. In order to achieve the desired output in the field of agriculture, there is need for strengthening the R – E – F linkages through Farmer / Scientist interactions, Joint visits by scientist, extension workers, organizing Kissan gosties and designate expert support arrangement from KVK / SAU.

It is observed that they have taken care to bring in synergy from among the departments. They have not achieved 100% due to poor convergence of line departments, SAU and farmers in both the RDs. On the contrary majority of districts have conducted KGs and not on other activities, which are evident from the table - 11. From among RD districts, Bengaluru Division have performed better by achieving more number of Farmer scientist, interaction at District level, Joint visits by scientist / Extension workers, Kisan gosties to strengthen Research – Extension - Farmer Linkages compared to Kalaburgi RD.

**Table: 11 Agricultural Technology, Refinement, Validation & Adoption**

| Sl. No   | Revenue Division / Districts | Farmer Scientist Interactions at district level |             | Joint visits by Scientists & Extension Workers |             | Organization of Kisan gosties to strengthen research extension - farmer linkages |             | Designate expert support from KVK / SAU at District Level |             |
|----------|------------------------------|---|-------------|--|-------------|--|-------------|---|-------------|
|          |                              | Target  | Achievement | Target   | Achievement | Target   | Achievement | Target  | Achievement |
| <b>I</b> | <b>BENGALURU RD</b>          |   |             |  |             |  |             |   |             |
| 1        | Bengaluru                    | 2   | -           | 10   | -           | 12   | 14          | 1   | -           |
| 2        | Chickballapur                | 1   | 1           | 10   | 9           | 12   | 11          | 1   | 1           |
| 3        | Chitradurga                  | 2   | 2(90)       | 10   | -           | 12   | 10          | 1   | -           |
| 4        | Davanagere                   | 2   | 1(57)       | 10   | -           | 12   | 11          | 1   | -           |
| 5        | Kolar                        | 2   | -           | 10   | -           | 10   | -           | 1   | -           |
| 6        | Ramanagara                   | 2   | 1(52)       | 10   | -           | 8  | 2           | 1   | -           |
| 7        | Shimoga                      | 2   | 3           | 10   | 8           | 14   | 15          | 1   | -           |
| 8        | Tumkur                       | 2   | -           | 10   | -           | 20   | 10          | 1   | -           |
|          | <b>Total</b>                 | <b>15</b>                                       | <b>8</b>    | <b>80</b>                                      | <b>17</b>   | <b>100</b>   | <b>73</b>   | <b>8</b>  | <b>1</b>    |

| II | KALABURGI RD |           |          |           |           |           |           |          |          |
|----|--------------|-----------|----------|-----------|-----------|-----------|-----------|----------|----------|
| 9  | Bellary      | 2         | 2        | 10        | 10        | 14        | 14        | 1        | 1        |
| 10 | Bidar        | 2         | -        | 10        | -         | 10        | 6         | 1        | -        |
| 11 | Kalaburgi    | 2(100)    | 2(100)   | 10        | -         | 14        | 14        | 1        | -        |
| 12 | Koppal       | 2         | 2        | 10        | -         | 8         | 1         | 1        | -        |
| 13 | Raichur      | 2         | 1        | 10        | -         | 10        | 11        | 1        | -        |
| 14 | Yadagir      | 2         | 1        | 10        | 3         | 6         | 6         | 1        | -        |
|    | <b>Total</b> | <b>12</b> | <b>8</b> | <b>60</b> | <b>13</b> | <b>62</b> | <b>52</b> | <b>6</b> | <b>1</b> |

c) Convergence with other farmer centric schemes of GOI

It is note worthy to state that there is convergence of all the national programmes like 1) NFSM 2) National Project on Soil health and fertility management, RKVY & other programmes / schemes.

In both the Revenue Divisions, to its fullest capacity indicating the better utilities of National allocation funds for betterment of farming community.

d) It is observed that there is essentiality for convergence of NGOs at all levels in implementing ATMA scheme, they have restricted only for preparation of SREP in few districts. However this need to be examined by all line departments in order to take forward technicalities in a befitting manner across RD's

As seen from the cafeteria of activities / allied sector beneficiaries Chikaballapura, Kolar, Davanagere, Shimoga, Ramanagara could be considered as best and satisfactory example of convergence in Bengaluru RD where as in Kalaburgi RD, Bellary & Gulbarga are considered as best examples. .

The delay in convergence in few districts is mainly due to inadequacy & non-release of funds which is major locuna. Nevertheless the districts which have obtained high production of crop yields through ATMA are Milk, honey bee colony restoration, fodder, water savings through SRI method of paddy Cultivation is furnished in Table :

Table: 12

| Sl No | Division  | Districts  |
|-------|-----------|--|
| 1     | Bengaluru | Chikaballapura, Kolar, Shimoga, Ramanagara, Chitradurga, |
| 2     | Kalaburgi | Bellary, Kalaburgi, Kopal                                |

5. Whether prescribed process has been followed in presentation of BAP, DAP and SEWP?  
If not, the reasons there of may be detailed

A linear and upward progress can be achieved only through systematic planning and execution. It has been observed in almost all districts the BAP, DAP, SEWP have been scientifically and systematically planned in solving the regional / locational issues. However, the district like Davanagere (67%), Kolar (66%), Tumkur (70%), Koppal (71%) though planned but failed to execute in systematic manner and their achievement is satisfactory & average. The districts which have achieved performance very well by adopting BAP, DAP and SEWP are Chikaballapura (81%), Bengaluru (87%) followed by Chitradurga (75%), Kolar (66%), Shimoga (78%), Similarly in Kalaburgi RD, Bidar (53%), Kalaburgi (54%) and Yadagiri (60%) comes under average category, whereas Bellary (78%) and Raichur (84%) whose performance is satisfactory / good respectively.

6. A) At present the AO's (Agricultural officers) AAO's (Asst. Agricultural officers) ATM's (Ass. Technological Managers ) in RSK (Raitha Samparka Kendra) at Hobli level are handling the task of information, communication to the farmer as that during the green revolution the agriculture extension through T & V system (Training and Visit system). To what extent they are able to communicate to the farmer about new technology? Whether the system is farmer friendly and is able to create any significant impact?

It was known fact that the dissemination of know how/ technology is being transfer red to farming community through ATM / BTM's, AAO's , KVK, respective line Departments through demos, Farm school / Farmer field school, Kissan Gosties / Field Days. Visit to Research station, Exposure visits is a noval approach and the level at which the information communication to farming community is to the tune of 90-95%, the best approach is Demos/Farmer Field Schools / field days

b) What is the extent of capacity building and human resource development under the scheme during the current year? What is the deployment of manpower in implementation process at various levels as against targets

Capacity building and HRD specially in the area of new technological transformation in all the Natural Resource Management Development etc, is being implemented in all the districts by involving the Agricultural Scientists of the respective UAS through KVK at RSK level. Besides specific targets, HRD has been implemented in almost all Districts through ATMA. The district wise physical and financial target and achievements is presented below.

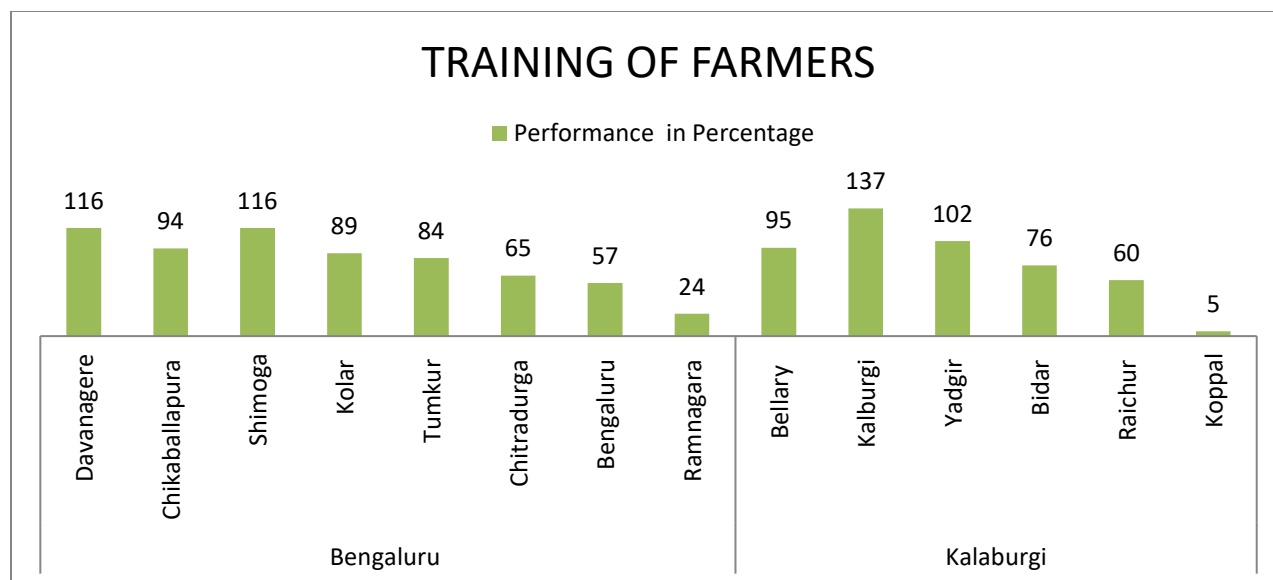
### B - 2 Trainings of Farmers, 2017 - 18

| Sl. No.              | Bengaluru RD   | B- 2 Training of Farmers |              |           |              |               |           |
|----------------------|----------------|--------------------------|--------------|-----------|--------------|---------------|-----------|
|                      |                | Physical                 |              |           | Financial    |               |           |
|                      |                | T                        | A            | %         | T            | A             | %         |
| 1                    | Bengaluru      | 2130                     | 1215         | 104       | 8.18         | 3.098         | 38        |
| 2                    | Chikaballapura | 2130                     | 2006         | 94        | 8.18         | 6.21          | 76        |
| 3                    | Chitradurga    | 2130                     | 1390         | 65        | 8.18         | 5.13          | 63        |
| 4                    | Davanagere     | 2130                     | 2469         | 116       | 8.18         | 6.63          | 81        |
| 5                    | Kolar          | 1775                     | 1579         | 89        | 6.81         | 5.35          | 79        |
| 6                    | Ramanagar      | 2180                     | 529          | 24        | 5.45         | 1.59          | 29        |
| 7                    | Tumkur         | 2360                     | 1975         | 84        | 9.23         | 3.91          | 42        |
| 8                    | Shimoga        | 2485                     | 2874         | 116       | 9.54         | 4.6           | 48        |
| <b>Total</b>         |                | <b>17320</b>             | <b>14037</b> | <b>81</b> | <b>63.75</b> | <b>36.518</b> | <b>57</b> |
| <b>Kalaburgi R D</b> |                |                          |              |           |              |               |           |
| 1                    | Bellary        | 2485                     | 2365         | 95        | 9.54         | 9.24          | 97        |
| 2                    | Bidar          | 1900                     | 1446         | 76        | 6.81         | 5.67          | 83        |
| 3                    | Kalaburgi      | 2485                     | 3405         | 137       | 6.45         | 10.22         | 158       |
| 4                    | Koppal         | 1420                     | 64           | 5         | 5.45         | 0.4           | 7         |
| 5                    | Raichur        | 1775                     | 1066         | 60        | 6.81         | 7.62          | 112       |
| 6                    | Yadgir         | 1065                     | 1086         | 102       | 4.09         | 4.53          | 111       |
| <b>Total</b>         |                | <b>11130</b>             | <b>9432</b>  | <b>85</b> | <b>39.15</b> | <b>37.68</b>  | <b>96</b> |

As seen from the table, the performance is good in respect of Davanagere (116%), Kolar (89%), Chikkabalapura (94%), Tumkur (84%) in Bengaluru RD and Kalaburgi (137%), Yadgir (102%), Bellary (95%), in Kalaburgi RD and in remaining districts the progress not up to the mark. The RD and district wise performance grading is furnished in the following table

**Table: 13 Performance wise details in respect of Training of farmers**

| RD        | District            | Performance in Percentage |                      |                        |
|-----------|---------------------|---------------------------|----------------------|------------------------|
|           | >80% (Good)         | 61 – 80<br>(Satisfactory) | 41 – 60<br>(Average) | <40<br>(Below average) |
| Bengaluru | Davanagere - 116    | Chitradurga -65           | Bengaluru -57        | Ramnagara -24          |
|           | Chikaballapura - 94 | -                         | -                    | -                      |
|           | Shimoga -116        | -                         | -                    | -                      |
|           | Kolar – 89          | -                         | -                    | -                      |
|           | Tumkur – 84         | -                         | -                    | -                      |
| Kalaburgi | Bellary - 95        | Bidar – 76                | Raichur - 60         | Koppal -5              |
|           | Kalburgi – 137      | -                         | -                    | -                      |
|           | Yadgir – 102        | -                         | -                    | -                      |



Similarly the performance under EV of farmers to the places of Agriculture and allied fields of importance under Inter and with in state and within district level is extremely good. Since 183% and 129% Physical achievement made in Bengaluru and Kalaburgi RD respectively. The RD and district wise details given below

**Table :** District wise details of Exposure visits of Farmers

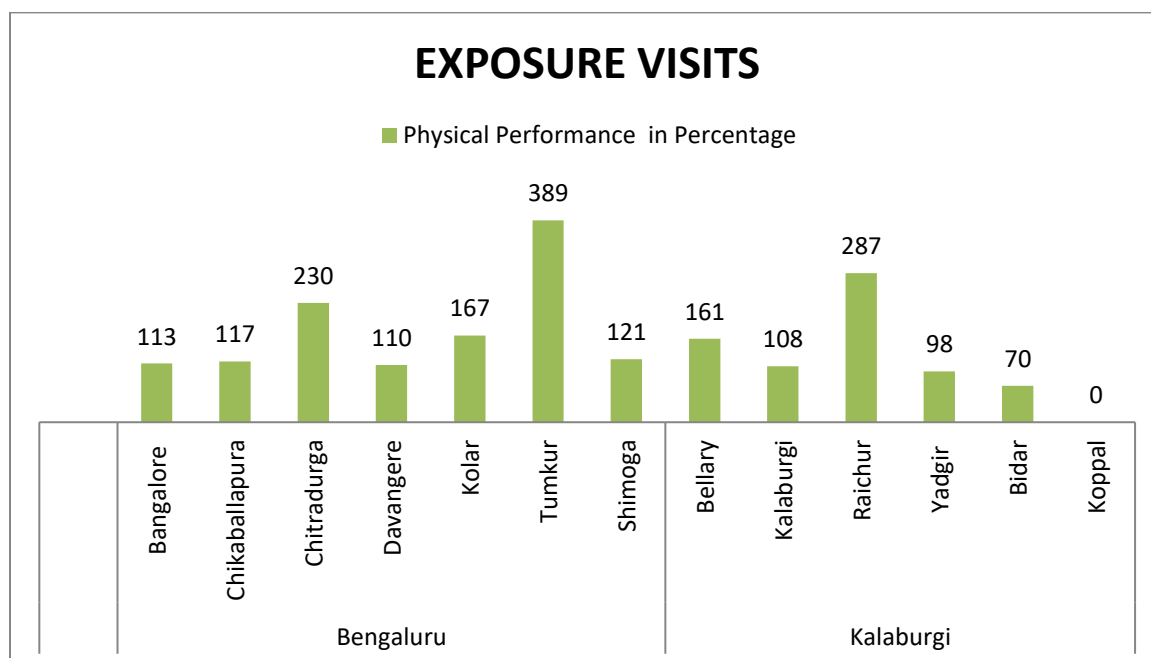
| Sl No         | District      | Physical(No.) |        |             | Financial (Rs. in Lakhs ) |        |             |
|---------------|---------------|---------------|--------|-------------|---------------------------|--------|-------------|
|               |               | Bengaluru RD  | Target | Achievement | Percentage                | Target | Achievement |
| 1             | Bengaluru     | 1290          | 1460   | 113         | 5.52                      | 3.85   | 70          |
| 2             | Chikabalapura | 1290          | 1511   | 117         | 5.52                      | 6.29   | 114         |
| 3             | Chitradurga   | 1290          | 2972   | 230         | 5.52                      | 13.12  | 238         |
| 4             | Davanger      | 1290          | 1416   | 110         | 5.52                      | 8.27   | 150         |
| 5             | Kolar         | 1075          | 1796   | 167         | 4.60                      | 7.33   | 159         |
| 6             | Ramanagar     | 1020          | 1275   | 125         | 3.68                      | 5.31   | 144         |
| 7             | Tumkur        | 1821          | 7081   | 389         | 7.08                      | 19.85  | 281         |
| 8             | Shimoga       | 1505          | 1824   | 121         | 6.44                      | 7.99   | 124         |
| Total         |               | 10581         | 19335  | 183         | 43.88                     | 72.04  | 164         |
| Kalaburgi R D |               |               |        |             |                           |        |             |
| 1             | Bellary       | 1505          | 2428   | 161         | 6.44                      | 10.69  | 166         |
| 2             | Bidar         | 1075          | 800    | 74          | 4.60                      | 3.24   | 70          |
| 3             | Kalaburgi     | 1505          | 1628   | 108         | 6.44                      | 8.37   | 130         |
| 4             | Kopal         | 860           | 0      | 0           | 3.68                      | 0      | 0           |
| 5             | Raichur       | 1075          | 3085   | 287         | 4.60                      | 7.10   | 154         |
| 6             | Yadgir        | 645           | 631    | 98          | 2.76                      | 2.15   | 78          |
| Total         |               | 6665          | 8572   | 129         | 28.52                     | 31.55  | 111         |



As seen from table, the achievement is quite good in all eight district of Bengaluru RD exceeding the target assigned where as in case of Kalaburgi RD, three district exceeded the target satisfactory in case of Yadgir 98%, Bidar 74% and nil in case of Koppal

**Table: 14 Performance grading details in respect of Exposure Visits**

| RD        | District       | Physical Performance in Percentage |           |         |           |
|-----------|----------------|------------------------------------|-----------|---------|-----------|
|           |                | >80                                | 61 - 80   | 41 - 60 | <40       |
| Bengaluru | Bengaluru      | 113                                |           | -       | -         |
|           | Chikaballapura | 117                                | -         | -       | -         |
|           | Chitradurga    | 230                                |           |         |           |
|           | Davangere      | 110                                | -         | -       | -         |
|           | Kolar          | 167                                | -         | -       | -         |
|           | Ramanagar      | 125                                | -         | -       | -         |
|           | Tumkur         | 389                                | -         | -       | -         |
|           | Shimoga        | 121                                | -         | -       | -         |
| Kalaburgi | Bellary        | 161                                | Bidar- 74 |         | Koppal -0 |
|           | Kalaburgi      | 108                                | -         | -       | -         |
|           | Raichur        | 287                                | -         | -       | -         |
|           | Yadgir         | 98                                 | -         | -       | -         |



7. How many Farmer Interest Groups (FIG's) and Commodity Interest Groups (CIG's) have been formed under ATMA as a part of social mobilization group approach? Is this effort yielding good results in extension work? Any best practices are observed with regard to this?

In recent times in order to provide economic stability through appropriate market channels farmers have been grouped as FIG's, CIG's who have been supported through ATMA both financially and technically are vibrant in many districts of the state in Karnataka. In Bengaluru RD as against target of 291 groups as many as 166 groups were formed (57%). And in case of Kalaburgi RD as against target of 219 groups as many as 113 groups were formed (52%), District wise performance is furnished in the table.

**Table: 15 Details of RSG and FSG**

| RD        | District       | Performance in Percentage |            |           |                     |           |           |                                     |           |           |
|-----------|----------------|---------------------------|------------|-----------|---------------------|-----------|-----------|-------------------------------------|-----------|-----------|
|           |                | Capacity building         |            |           | RSG<br>(Seed money) |           |           | Food Security<br>Group (seed money) |           |           |
|           |                | T                         | A          | %         | T                   | A         | %         | T                                   | A         | %         |
| Bengaluru | Bengaluru      | 28                        | 8          | 29        | 20                  | 5         | 75        | 8                                   | 3         | 38        |
|           | Chikaballapura | 42                        | 42         | 100       | 30                  | 30        | 100       | 12                                  | 11        | 92        |
|           | Chitradurga    | 42                        | 14         | 33        | 30                  | 7         | 23        | 12                                  | 3         | 25        |
|           | Davangere      | 42                        | 13         | 31        | 30                  | 1         | 3         | 12                                  | 0         | 0         |
|           | Kolar          | 25                        | 22         | 40        | 10                  | 12        | 120       | 10                                  | 9         | 90        |
|           | Ramanagara     | 25                        | 8          | 29        | 20                  | 5         | 25        | 8                                   | 3         | 38        |
|           | Tumkur         | 35                        | 10         | 29        | 40                  | 0         | 0         | 35                                  | 0         | 0         |
|           | Shimoga        | 49                        | 49         | 89        | 35                  | 31        | 86        | 14                                  | 14        | 100       |
|           | <b>Total</b>   | <b>291</b>                | <b>166</b> | <b>57</b> | <b>215</b>          | <b>91</b> | <b>42</b> | <b>111</b>                          | <b>43</b> | <b>39</b> |
| Belgavi   | Bellary        | 49                        | 34         | 69        | 35                  | 21        | 60        | 14                                  | 5         | 36        |
|           | Bidar          | 35                        | 23         | 66        | 25                  | 13        | 52        | 10                                  | 3         | 30        |
|           | Kalaburgi      | 49                        | 35         | 72        | 35                  | 0         | 0         | 14                                  | 0         | 0         |
|           | Koppal         | 28                        | 6          | 21        | 20                  | 4         | 20        | 8                                   | 1         | 13        |
|           | Raichur        | 35                        | 0          | 0         | 25                  | 0         | 0         | 10                                  | 0         | 0         |
|           | Yadgir         | 23                        | 15         | 71        | 15                  | 12        | 80        | 6                                   | 1         | 17        |
|           | <b>Total</b>   | <b>219</b>                | <b>113</b> | <b>52</b> | <b>155</b>          | <b>50</b> | <b>32</b> | <b>62</b>                           | <b>10</b> | <b>16</b> |

### Causes for low institutionalization base in the programme with regard to formation of FIGs, CIGs and federations

One of the major lacuna on the low institutionalization in formation of FIGs & others was basically due to inadequate and unqualified technical man power and political compulsions, besides inadequate training programmes to ATMA implementing staff who are on contract basis in addition they are under staff

8. How many food security groups are formed? Whether any food security hubs are developed?

One of the objective of ATMA is to provide Nutritional food to every human being which could be achievable through food security mission by forming Food security groups. In deed ATMA project has strengthened many food security mission groups (53 no.) which have been established across revenue divisions and playing a significant role in nutritional security. Accordingly as many as 43 FSG's in Bengaluru and 10 FSG's in Kalaburgi RD were found formed. Besides, under climate change situation the ATMA has facilitated in transferring the knowledge of minor millets as one of the approach.

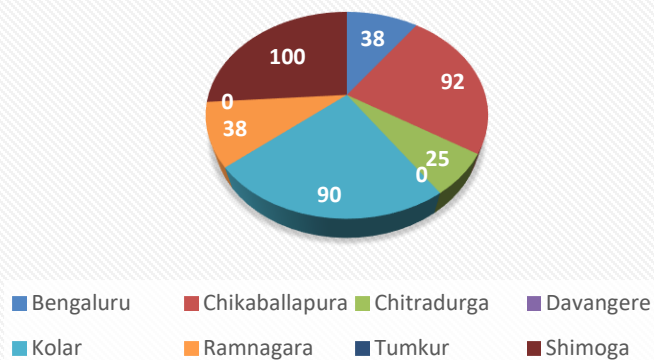
Further, as per guidelines a minimum of two Food Security Groups per block are to be formed in each year. In Bengaluru revenue division against target of 111 groups only, 43 groups were found formed which workouts to 39%, where as in case of Kalaburgi RD it is 16%, this is very low because two districts in Bengaluru RD viz Davanagere and Tumkur the progress is nil. And in case of Kalaburgi RD the progress in respect of Raichur, Kalaburgi are also nil. However good and satisfactory progress is seen in respect of Chikaballapura 92%, Kolar 90%, Shimoga 100% respectively. Below average in case of remaining districts namely Bengaluru-38%, Chitradurga-25%, Ramanagara-38%, Bellary-36%, Bidar-30%, Koppal-13% and Yadgir-17%

**Table: 16 District wise details of FSG - Bengaluru**

|   | Bengaluru      | No of groups |    | Percentage |
|---|----------------|--------------|----|------------|
|   |                | T            | A  |            |
| 1 | Bengaluru      | 8            | 3  | 38         |
| 2 | Chikaballapura | 12           | 11 | 92         |
| 3 | Chitradurga    | 12           | 3  | 25         |
| 4 | Davangere      | 12           | 0  | 0          |

|       |           |     |    |     |
|-------|-----------|-----|----|-----|
| 5     | Kolar     | 10  | 9  | 90  |
| 6     | Ramnagara | 8   | 3  | 38  |
| 7     | Tumkur    | 35  | 0  | 0   |
| 8     | Shimoga   | 14  | 14 | 100 |
| TOTAL |           | 111 | 43 | 39  |

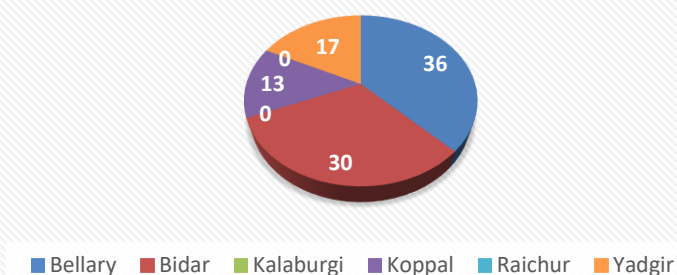
### Bengaluru RD. - FSG's



### District wise details of FSG's in Kalaburgi RD

| Sl No | Kalaburgi | No of groups |    | Percentage |
|-------|-----------|--------------|----|------------|
|       |           | T            | A  |            |
| 1     | Bellary   | 14           | 5  | 36         |
| 2     | Bidar     | 10           | 3  | 30         |
| 3     | Kalaburgi | 14           | 0  | 0          |
| 4     | Koppal    | 8            | 1  | 13         |
| 5     | Raichur   | 10           | 0  | 0          |
| 6     | Yadgir    | 6            | 1  | 17         |
| TOTAL |           | 62           | 10 | 16         |

### Kalaburgi RD. - FSG's

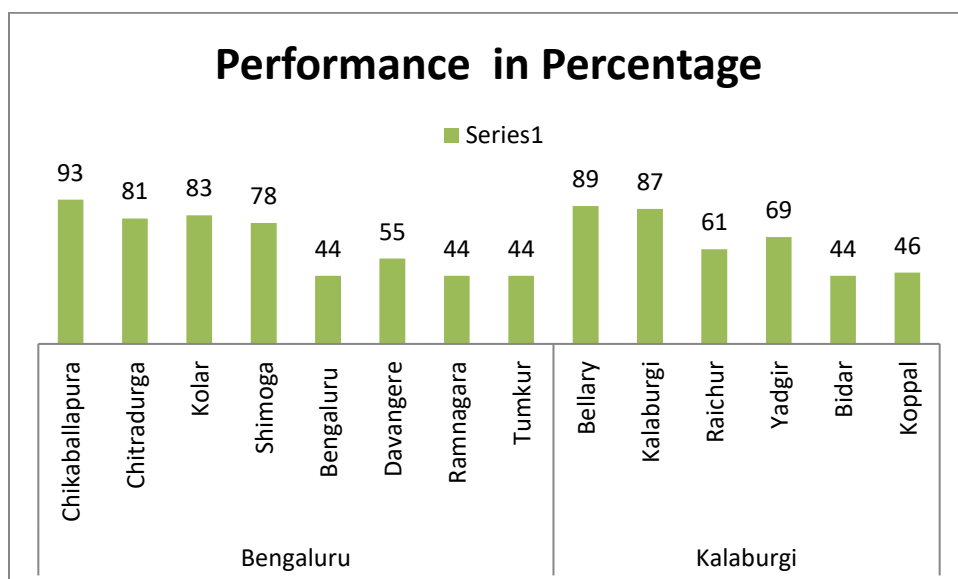


9. Whether the physical and financial target set and approved by district level ATMA steering committees (DLAIC) for each of the cafeteria activities as per Annexure of the TOR (CM&E of 2017 – 18) have been met? If yes, to what extent? If no, why not?

Cafeteria of activities at various levels of implementing districts, it is observed that all the districts have met the set targets by DLAIC for each of the cafeteria activities and achievements ranged from 87 to 66% in Bengaluru RD and 84 to 54% in Kalaburgi RD. However in Bengaluru RD majority of focused target is EV followed by training, KG, Demo etc. The RD and district wise details furnished in the table

**Table: 17**

| RD        | District       | Performance in Percentage |                 |            |     |
|-----------|----------------|---------------------------|-----------------|------------|-----|
|           |                | >80                       | 61 - 80         | 41 - 60    | <40 |
| Bengaluru | Chikaballapura | 81                        | Shimoga - 77    |            |     |
|           | Chitradurga    | 75                        | Davanagere - 67 |            |     |
|           | Bengaluru      | 87                        | Kolar - 66      |            |     |
|           |                |                           | Ramanagara - 76 |            |     |
|           |                |                           | Tumkur - 70     |            |     |
| Kalaburgi | Bellary        | 79                        | Yadgir- 66      | Bidar - 53 |     |
|           | Kalaburgi      | 54                        | Koppal - 71     |            |     |
|           | Raichur        | 84                        |                 |            |     |



### Analyze the cost involved and returns of the scheme / programme

The major objective of the scheme is to strengthen extension programmes of all Departments in order to reach the unreached farmers and to enhance the productivity in sustainable manner through implementation of innovative agricultural technologies, the budget of project was to the tune of Rs 19.51 crores, and of which Rs. 814.666 lakhs (42%) was spent on Administrative component alone and Rs 582.688 crores only utilized for implementation of Farmer oriented activities, Farm information dissemination, Agricultural tech refinement, validations, adoption and other innovative activities and the same has been presented in the table. Hence there is need for cutting the establishment cost and simultaneously to enhance the allocation towards Farmer Oriented Activities in future. The physical and financial achievements and the various kind of services rendered by ATMA extension staff in execution of other department of agriculture schemes should also be considered while comparing/ analyzing the administrative cost incurred and its percentage under ATMA scheme Table showing cost involved for broad activities and returns / benefits of the scheme / programme is furnished below.

| <b>Table showing cost involved &amp; returns of the scheme / programme</b> |   |         |                            |                |
|--|---|---------|----------------------------|----------------|
| Sl. No   | Activity  | Target  | Achievement (Rs. in lakhs) | (%) percentage |
| 1  | State level activities                                  | 281.55  | 76.8                       | 27             |
| 2  | Total District level activities                         | 1925.43 | 1376.518                   | 71.491         |
| 3  | Field activities  | 429.50  | 297.83                     | 69.34          |
| 4  | Administration component                                | 1190.85 | 912.265                    | 81.26          |
| <b>Returns / Benefits of the scheme</b>                                    |   |         |                            |                |
| 1  | Training farmers (no.)                                  | 28,450  | 23,469                     | 82.49          |
| 2  | Exposure visits (No. of farmers)                        | 12,086  | 27,907                     | 230.90         |
| 3  | <b>Mobilization of farmer groups (Number of groups)</b> |         |                            |                |
| a  | Capacity Building                                       | 510     | 279                        | 54.71          |

|    |  |     |     |       |
|----|--|-----|-----|-------|
| b  | RSG (seed money)                           | 370 | 141 | 38.1  |
| c  | FSG (Seed money)                           | 172 | 53  | 30.81 |
| 4  | Farmer awards                              | 402 | 90  | 22.39 |
| 5  | Incentives & rewards                       | 70  | 6   | 8.57  |
| 6  | Demonstrations                             | 585 | 493 | 84.27 |
| 7  | Farm field schools                         | 229 | 118 | 51.53 |
| 8  | Farmer scientist inter actions<br>(events) | 27  | 16  | 59.26 |
| 9  | Joint visits by S/EW (Events)              | 140 | 30  | 21.43 |
| 10 | Designate expert support<br>from KVK       | 14  | 2   | 14.29 |
| 11 | Kisan gosties                              | 162 | 66  | 40.74 |

Note: The over all impact is such that ATMA scheme has resulted in improved extension activities like demonstrations, field visits, trainings, exposure visits, Kisan Goshties, Farm schools etc have resulted in substantial capacity building of farming community in the various districts of the state, besides improvement in sustainability and economic benefits. In majority of the districts, they have tried to introduce minor millets such as Navane, Foxtail, Saame, Podo millet etc. and have food security measures to avoid/ mitigate drought besides nutritional security.

10. Whether the processes as prescribed has been followed in implementation? If not, what are the reasons?

All the processes as prescribed in the ATMA guidelines have been adopted more or less fully

11. What is the average delay in starting implementation and average time over run in completing implementation?

It is observed that there is no evidences of delayed implementation of project except the deviation in dry land sowing because of erratic rainfall behaviour in some pockets in all

Revenue division districts and also delay in developing / revisiting SREP in some of the districts already narrated in above para.

12. How many farmer groups have been benefitted under each sector viz agricultural Horticultural, Animal Husbandry, Fisheries, Forestry etc vis-à-vis the category of farmers benefitted viz SC / ST / OBC / SF / MF / LF and Women.

All Districts in Bengaluru and Kalaburgi revenue divisions have made efforts and formed farmer groups namely FIGs, GIGs, FSGs, during 2017-18. Accordingly 166 groups against a target of 291 groups in Bengaluru Revenue Divisions, 113 groups against target of 219 groups in Kalaburgi Revenue Divisions were found formed and involved in ATMA activities and provided required skill development trainings

| Sl. No. | Activity            | Bengaluru Revenue Division |             |            | Kalaburgi Revenue Division |             |            |
|---------|---------------------|----------------------------|-------------|------------|----------------------------|-------------|------------|
|         |                     | Target                     | Achievement | Percentage | Target                     | Achievement | Percentage |
| 1       | Capacity            | 291                        | 166         | 57         | 219                        | 113         | 52         |
| 2       | RSG<br>Seed money   | 215                        | 91          | 42         | 155                        | 50          | 32         |
| 3       | FSG<br>(Seed money) | 111                        | 43          | 39         | 62                         | 12          | 16         |

These FIGs formed from all sectors but majority are from agriculture sector followed by Animal Husbandry, Horticulture, Sericulture, Fisheries and Marketing sectors with majority are from women groups / members (> 80%) and all the members belonging into SC / ST, Minority, OBC Categories with more or less required category percentages

Social mobilisation of the farmers involved in the ATMA programmes forms an integral part for the overall effectiveness and success of the programme. These social mobilisation groups namely Farmers Interest Groups (FIG's), Commodity Interest Groups (CIG's) and Food Security Groups (FSG's) serve as the nodal point for information and technology dissemination among its member. The social mobilisation of the farmers by way of forming the FIG's, CIG's and FSG's, training the member in various aspects of management, activities of groups, participation, group discussion, financial aspects finally helps them to participate more fully in the ATMA activities. Further, aspects of groups mobilisation i.e., giving "seed money" to the groups who have done good works by way of conducting regular meetings, discussion of ATMA activities, internal



savings and utilisation of these savings to further improving their activities and motivating other farmer also to do such activities..

In both Bengaluru and Kalaburgi RD seed money a sum of Rs. 14.00 lakhs covering 141 groups against target of Rs 37.00 lakhs including groups that have been involved and which have taken up activities in the previous year were provided seed money during current year.

13. Whether the training programmes are designed to suit the requirements of the farmers and cropping pattern of the region?

Almost all the training Programmes have been designed based on cafeteria of activities & based on regional / local requirement of cropping pattern besides ITK knowledge super imposed where ever available in some of the districts including suggestions / priorities finalised in the BFAC / DFAC committee meetings were well taken.

14. How many farm school / Demonstration programmes are conducted? What is the level of participation of the farmers? Are there differences across the Divisions?

The concept of Farm school / Demo programme on specific activity of the technology has been well understood and adopted by farming community, it is ranged from 19% to 93% in Bengaluru RD. On the contrary in Kalaburgi RD, the range of acceptance range from 25% to 100% indicating the superiority of the programme for transferring the knowledge to the farmers & it is a noval approach and needs more focused attention & strengthening of programme of Farm schools in all the Districts of RD's. The difference in adopting of methodology across the districts are due to different cropping systems which were highly regional specific. Few districts not organised farmer field schools viz Davanagere, Kolar, Tumkur, Bidar, Raichur. The RD and district wise demos / FFS conducted is shown below

**Table: 18 Farm Field Schools**

| Sl. No. | Bengaluru RD   | Physical ( No) |    |    | Financial Rs. in Lakhs |      |    |
|---------|----------------|----------------|----|----|------------------------|------|----|
|         |                | T              | A  | %  | T                      | A    | %  |
| 1       | Bengaluru      | 18             | 9  | 50 | 5.29                   | 2.11 | 40 |
| 2       | Chikaballapura | 18             | 17 | 92 | 5.29                   | 4.91 | 93 |

|                      |             |                            |           |           |                                   |              |           |
|----------------------|-------------|----------------------------|-----------|-----------|-----------------------------------|--------------|-----------|
| 3                    | Chitradurga | 18                         | 9         | 50        | 5.29                              | 1.63         | 31        |
| 4                    | Davanagere  | 18                         | 0         | 0         | 5.29                              | 0            | 0         |
| 5                    | Kolar       | 15                         | 0         | 0         | 4.41                              | 0            | 0         |
| 6                    | Ramanagar   | 5                          | 0         | 0         | 1.53                              | 0.29         | 19        |
| 7                    | Tumkur      | 23                         | 0         | 0         | 6.77                              | 0            | 0         |
| 8                    | Shimoga     | 21                         | 20        | 95        | 6.18                              | 4.15         | 67        |
| <b>Total</b>         |             | <b>136</b>                 | <b>55</b> | <b>40</b> | <b>40.05</b>                      | <b>13.09</b> | <b>33</b> |
| <b>Kalaburgi R D</b> |             | <b>Physical<br/>( No.)</b> |           |           | <b>Financial<br/>Rs. in Lakhs</b> |              |           |
|                      |             | <b>T</b>                   | <b>A</b>  | <b>T</b>  | <b>A</b>                          | <b>T</b>     | <b>A</b>  |
| 1                    | Bellary     | 21                         | 19        | 90        | 6.18                              | 4.98         | 81        |
| 2                    | Bidar       | 15                         | 0         | 0         | 4.41                              | 0            | 0         |
| 3                    | Kalaburgi   | 21                         | 32        | 152       | 6.18                              | 6.18         | 100       |
| 4                    | Koppal      | 12                         | 3         | 25        | 3.53                              | 0.88         | 25        |
| 5                    | Raichur     | 15                         | 0         | 0         | 4.41                              | 0            | 0         |
| 6                    | Yadgir      | 9                          | 9         | 100       | 2.65                              | 2.64         | 100       |
| <b>Total</b>         |             | <b>93</b>                  | <b>63</b> | <b>68</b> | <b>27.36</b>                      | <b>14.68</b> | <b>54</b> |

**Table: 19****ATMA Demonstrations conducted during 2017-18**

| Sl. No. | District       | Physical |     |     | Financial (Rs. In lakhs) |       |     |
|---------|----------------|----------|-----|-----|--------------------------|-------|-----|
|         |                | T        | A   | %   | T                        | A     | %   |
| 1       | Bengaluru      | 48       | 43  | 90  | 1.92                     | 1.533 | 80  |
| 2       | Chikaballapura | 48       | 53  | 110 | 1.92                     | 1.880 | 98  |
| 3       | Chitradurga    | 48       | 77  | 160 | 1.92                     | 1.650 | 86  |
| 4       | Davanagere     | 48       | nil | 0   | 1.92                     | nil   | nil |
| 5       | Kolar          | 40       | 119 | 297 | 1.60                     | 2.590 | 162 |
| 6       | Ramanagar      | 32       | 7   | 22  | 1.28                     | 0.280 | 22  |

|   |              |            |            |           |              |              |           |
|---|--------------|------------|------------|-----------|--------------|--------------|-----------|
| 7 | Tumkur       | 52         | 7          | 13        | 2.08         | 0.280        | 13        |
| 8 | Shimoga      | 21         | 21         | 100       | 0.84         | 0.840        | 100       |
|   | <b>Total</b> | <b>337</b> | <b>327</b> | <b>97</b> | <b>13.48</b> | <b>9.053</b> | <b>67</b> |

Performance > 80% : Kolar - 297, Chitradurga -160, Shimoga - 100, Chikaballapur - 110 61 - 80% - Bengaluru - 90%, 41 - 60% - nil, < 40% - Ramanagar - 22, Tumkur - 13, Davanagere – nil

| Sl. No. | District      | Physical   |            |     | Financial (Rs. In lakhs) |              |           |
|---------|---------------|------------|------------|-----|--------------------------|--------------|-----------|
|         | Kalburgi Road | T          | A          | %   | T                        | A            | %         |
| 1       | Bellary       | 56         | 48         | 86  | 2.24                     | 1.905        | 85        |
| 2       | Bidar         | 40         | 5          | 13  | 1.60                     | 0.200        | 13        |
| 3       | Kalaburgi     | 56         | 56         | 100 | 2.24                     | 2.240        | 100       |
| 4       | Koppal        | 32         | 18         | 56  | 1.28                     | 0.720        | 56        |
| 5       | Raichur       | 40         | 15         | 37  | 1.60                     | 0.600        | 37        |
| 6       | Yadgir        | 24         | 24         | 100 | 0.96                     | 0.310        | 32        |
|         | <b>Total</b>  | <b>248</b> | <b>166</b> |     | <b>9.92</b>              | <b>5.975</b> | <b>60</b> |

Performance: More than 81% - Kalaburgi - 100%, Bellary – 86%,  
61 - 80% - nil  
41 - 60% - Koppal - 56  
< 40% - Raichur - 37%, Bidar -13%

15. The additional income generated by the benefitted farmers as a result of implemented activities may be estimated / computed and detailed

Demonstrations and Farm / field school activity are the two components which provide direct benefit and income in the same season / year. All the rest of activities in the guidelines corresponds to transfer of technology and dissemination of knowledge and enhancement of skills / knowledge under Agriculture and allied sectors. According to implementation / performance of scheme during current year in all the 14 district except one or two, it is observed that there is increase in crop yields in general from 10 to 15%, milk yield by ½ to 1 litre per day, Introduction of new crops, new farm activities, increase in area expansion of minor millets / Horticulture etc, besides increase in technology adoption was observed.

The additional income generated by the farmers benefitted as a result of demonstrations organised both in kharif rabi seasons is furnished in the annexure.

### **Impact of ATMA on the yield of Agricultural commodities and farmers income levels scientifically references to BM yield**

From among the ATMA activities, the activities like crop demonstrations & Farm field schools which have been effectively implemented by all Departments with special reference to enhancement of crop yield includes silkworm cocoon yield, fish production (yield) / products / improvement in health of animals have been well documented & projected in the report. The district wise impact on yields of Agricultural commodities & farmers income levels shown in a tabular statement which is enclosed herewith, the has been incorporated in the draft report. Consequent to implementation of Demonstrations/ Farm schools have resulted in improvement yield of crops like ragi, maze, mulberry, milk, paddy etc In majority of districts they have tried to introduce minor millets as food security measures to avoid/ mitigate drought besides nutritional security

16. What is the extent of awareness created by ATMA institutions? It is reported very low in Concurrent Evaluation Report (CER)? Are there any differences across the divisions? What needs to be done for increasing awareness

The relevance of ATMA across Districts / Revenue Divisions has been well implemented & sensitized both at district, taluk / GP level and majority of farmers across the districts of RD has accepted the project in a positive manner and there is bare need for independent agency to implement the ATMA project in order to achieve 100% success. All the stake holders as envisaged in the guidelines need to be involved at all levels.

### **Efficiency of Farm field visits**

The efficiency of Farm field visits cannot be measured within the process of CM&E which is of 6 to 7 months duration. However it has been observed that number of field visits undertaken by the Agriculture & allied sectors in general in order to strengthen technical knowledge to the farmers which are successful & effective, appreciated by the farmers / farmers groups. The visits were organized in coordination/ consultation with line departments and KVK's , efficiency is found more significant.

17. Whether the resource allocation percentage for NGOs, ST / SC / Women farmers and beneficiary oriented activities like Training, EV, Demos, Capacity building of farmer groups at fixed in the guidelines have been followed? If not, where are and what are the reasons for deviations?

Para 5.1.7 of the ATMA guidelines 2014 is about convergence with and involvement of Non-Government Sectors / Organizations to ensure promotion of multi-agency extension strategies and to implement ATMA activities and stipulates that at least 10% of the scheme allocation on recurring activities at district level be incurred through Non Government Sector viz., NGO's, FO's. PRI's. Co-operative, para-extension workers, Agripreneurs, input suppliers etc.

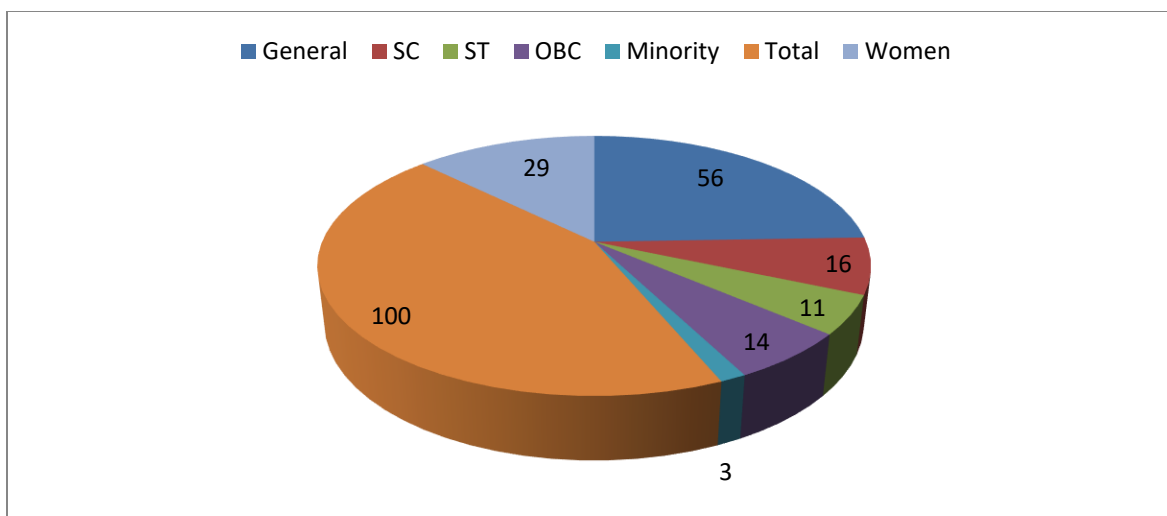
The Project Directors at district level have not adequately emphasized the need for involving NGOs / PRI institutions for creating required awareness and convergence of activities in the scheme although the ATMA BTMs / ATMs are involved in several programmes / activities.

The ATMA guidelines 2014 have emphasized the need for adequate resources allocation percentage to SC/ST. But, the statutory allocation made to SC and ST is to the extent of 18% and 6% respectively. The guidelines stipulate a women beneficiary percentage of 30%

As per implementation of the scheme and secondary data provided by the districts in Bengaluru and Kalaburgi RD as many as 46,000 and 23,006 farmers were found benefited respectively. The SC, ST, Women farmers benefited to the extent of 16%, 10% & 31% and 3% and to the extent of 17%, 12%, 24% in Bengaluru and Kalaburgi revenue divisions respectively. The other category farmers benefited is also detailed below.

**Table: 20** Category wise formers benefitted (N0.)

| RD        | Unit       | General | SC    | ST   | OBC  | Minority | Total | Women |
|-----------|------------|---------|-------|------|------|----------|-------|-------|
| Bengaluru | Total      | 25399   | 7409  | 4830 | 6994 | 1368     | 46000 | 14375 |
|           | Percentage | 55      | 16    | 10   | 16   | 3        | 100   | 31    |
| Kalaburgi | Total      | 12973   | 3918  | 2808 | 2451 | 847      | 23006 | 5564  |
|           | Percentage | 56      | 17    | 12   | 11   | 4        | 100   | 24    |
| Part II   | Total      | 38372   | 11324 | 7638 | 9445 | 2215     | 69006 | 19939 |
|           | Percentage | 56      | 16    | 11   | 14   | 3        | 100   | 29    |



18. Whether the resources allocations for different activities under the scheme is as per the guidelines at various level? If not state the reasons.

As per the ATMA guidelines, the allocation of farmer oriented activities envisaged is 55%, but as seen from the approved allocation for the year 2017-18, in Bengaluru RD it is 19% and in case of Kalaburgi RD also it is 19%.

The second component viz Farm Information Dissemination (FID), the prescribed allocation being 10%, the percentage more or less maintained i.e., 6 - 7% against 10% in both the RD's

In respect of third component viz Agriculture Technology, Validation, Adoption and Refinement, the prescribed resource allocation is 7% but no RD followed this. It is only 2 - 3% against prescribed allocation of 7%, which may be considered as low.

In case of fourth component i.e., administrative expenses which includes ATMA like institutions and Manpower component, the envisaged percentage being 28% but both the RD's exceeded the limit which ranges 63 - 64 (Bengaluru and Kalaburgi RD respectively)

Under " Other Component Category where activities like display boards, Pico projectors, low cost films, hand held devices, Kala jathas etc are included, no prescribed limit is indicated, however as per approved action plan 6 - 7% of allocation has been made. RD wise details in the table 17 & 18.

**Table: 21****ATMA Broad Activity wise/ District wise Financial Targets & Achivements 2017 -18**

| Sl No | Broad Activity   | Bengaluru Revenue Division |        |         |              |       |        |             |        |       |           |        |        |     |
|-------|--|----------------------------|--------|---------|--------------|-------|--------|-------------|--------|-------|-----------|--------|--------|-----|
|       |  | Bengaluru                  |        |         | Chikballapur |       |        | Chitradurga |        |       | Davangere |        |        |     |
|       |  | T                          | A      | %       | T            | A     | %      | T           | A      | %     | T         | A      | %      |     |
| 1     | Farmer Oriented Activities   | 27.42                      | 22.096 | 81      | 27.42        | 25.58 | 93     | 27.42       | 24.9   | 91    | 27.42     | 17.9   | 65     |     |
| 2     | Farm Information Dissemination   | 10                         | 31.24  | 312     | 10           | 5.68  | 57     | 10          | 9.51   | 95    | 10        | 2.7    | 27     |     |
| 3     | Agriculture Technology Refinement, Validation etc  | 2.58                       | 2.6    | 101     | 2.58         | 2.14  | 83     | 2.58        | 1.57   | 61    | 2.58      | 2.715  | 105    |     |
| 4     | Administrative Expenditure   | ATMA like institutions     | 6.90   | 2.507   | 36           | 6.9   | 5.39   | 78          | 6.9    | 2.1   | 30        | 6.9    | 1.724  | 25  |
| 5     |  | Man power component        | 60.77  | 46.174  | 76           | 76.61 | 60.11  | 78          | 67.56  | 53.95 | 80        | 72.08  | 52.24  | 72  |
| 6     | Other Inovative Activities (Display board, PICO projectors, low cost film, HH Divisies, Kalajathas (code - C+E+F)) |                            | 9.4    | 0.913   | 10           | 9.4   | 7.45   | 79          | 9.4    | 3.65  | 39        | 8.4    | 12.391 | 148 |
|       | Farm Field School  |                            | 5.29   | 2.108   | 39           | 5.29  | 4.91   | 93          | 5.29   | 1.63  | 31        | 5.29   | 0      | 0   |
|       | Total  |                            | 122.36 | 106.726 | 87           | 138.2 | 111.26 |             | 129.15 | 97.31 |           | 132.67 | 89.67  |     |

| Sl No | Broad Activity  | Bengaluru Revenue Division |        |       |           |       |        |        |        |        |         |        |        |    |
|-------|---|----------------------------|--------|-------|-----------|-------|--------|--------|--------|--------|---------|--------|--------|----|
|       |   | Kolar                      |        |       | Ramnagara |       |        | Tumkur |        |        | Shimoga |        |        |    |
|       |   | T                          | A      | %     | T         | A     | %      | T      | A      | %      | T       | A      | %      |    |
| 1     | Farmer Oriented Activities  | 21.51                      | 21.42  | 99.58 | 19.11     | 8.88  | 46     | 34.74  | 24.57  | 71     | 31.57   | 25.44  | 81     |    |
| 2     | Farm Information Dissemination  | 9.5                        | 3.1    | 33    | 6         | 4.34  | 72     | 12.7   | 0.92   | 7      | 10.5    | 3.61   | 34     |    |
| 3     | Agriculture Technology Refinement, Validation etc   | 2.28                       | 1.05   | 46    | 6.98      | 0.4   | 6      | 3.78   | 1.5    | 40     | 2.88    | 2.03   | 70     |    |
| 4     | Administrative Expenditure  | ATMA like institutions     | 2.75   | 0.78  | 28        | 6.1   | 0.265  | 4      | 8.5    | 1.29   | 15      | 7.3    | 1.7    | 23 |
| 5     |   | Man power component        | 77.27  | 56.64 | 73        | 53.23 | 58.61  | 110    | 143.8  | 130.75 | 91      | 116.66 | 95.97  | 82 |
| 6     | Other Innovative Activities (Display board, PICO projectors, low cost film, HH Divisies, Kalajathas (code - C+E+F)) |                            | 8      | 0.4   | 5         | 6.6   | 2.87   | 43     | 16.5   | 0      | 0       | 12.55  | 1.3    | 10 |
|       | Farm Field School   |                            | 4.41   | 0     | 0         | 1.53  | 0.29   | 19     | 6.77   | 0      | 0       | 6.18   | 4.1    | 66 |
|       | Total   |                            | 125.72 | 83.39 |           | 99.55 | 75.655 |        | 226.79 | 159.03 |         | 187.64 | 134.15 |    |

**Table: 22****ATMA Broad Activity wise/ District wise Financial Targets & Achievements 2017 -18**

| Sl No        | Broad Activity   | Kalaburgi Revenue Division |               |       |               |              |       |               |               |      |       |    |
|--------------|--|----------------------------|---------------|-------|---------------|--------------|-------|---------------|---------------|------|-------|----|
|              |  | Bellary                    |               |       | Bidar         |              |       | Kalaburgi     |               |      |       |    |
|              |  | T                          | A             | %     | T             | A            | %     | T             | A             | %    |       |    |
| 1            | Farmer Oriented Activities   | 31.57                      | 28.63         | 91    | 23.26         | 12.18        | 52    | 27.45         | 22.58         | 82   |       |    |
| 2            | Farm Information Dissemination   | 10.5                       | 8.73          | 83    | 9.5           | 2.05         | 22    | 7             | 5.71          | 82   |       |    |
| 3            | Agriculture Technology Refinement, Validation etc  | 2.88                       | 2.873         | 100   | 2.28          | 0.9          | 39    | 2.88          | 2.501         | 87   |       |    |
| 4            | Administrative Expenditure   | ATMA like institutions     |               | 7.3   | 2.423         | 33           | 6.5   | 0.41          | 6             | 7.3  | 4.67  | 64 |
| 5            |  | Man power component        |               | 82.24 | 52.07         | 64           | 79.63 | 55.58         | 70            | 76.2 | 49.54 | 65 |
| 6            | Other Innovative Activities (Display board, PICO projectors, low cost film, HH Divisies, Kalajathas (code - C+E+F) |                            | 12.55         | 10.44 | 83            | 8            | 0     | 0             | 12.55         | 7.2  | 57    |    |
|              | Farm Field School  |                            | 6.18          | 4.98  | 81            | 4.41         | 0     | 0             | 6.8           | 6.8  | 100   |    |
| <b>Total</b> |  | <b>153.22</b>              | <b>110.15</b> |       | <b>133.58</b> | <b>71.12</b> |       | <b>140.18</b> | <b>99.001</b> |      |       |    |

| Sl No        | Broad Activity   | Kalaburgi Revenue Division |              |       |               |              |        |              |              |       |       |    |
|--------------|--|----------------------------|--------------|-------|---------------|--------------|--------|--------------|--------------|-------|-------|----|
|              |  | Koppal                     |              |       | Raichur       |              |        | Yadagir      |              |       |       |    |
|              |  | T                          | A            | %     | T             | A            | %      | T            | A            | %     |       |    |
| 1            | Farmer Oriented Activities   | 19.11                      | 2.42         | 13    | 23.26         | 16.82        | 72     | 14.96        | 9.54         | 64    |       |    |
| 2            | Farm Information Dissemination   | 9                          | 0.34         | 4     | 9.5           | 8.71         | 92     | 8.5          | 5.27         | 62    |       |    |
| 3            | Agriculture Technology Refinement, Validation etc  | 1.98                       | 0.4          | 20    | 2.28          | 1.85         | 81     | 1.68         | 1.14         | 68    |       |    |
| 4            | Administrative Expenditure   | ATMA like institutions     |              | 6.1   | 2.13          | 35           | 6.5    | 0.06         | 0.92         | 5.7   | 0     | 0  |
| 5            |  | Man power component        |              | 57.76 | 14.51         | 25           | 106.72 | 97.45        | 91           | 49.49 | 30.46 | 62 |
| 6            | Other Innovative Activities (Display board, PICO projectors, low cost film, HH Divisies, Kalajathas (code - C+E+F) |                            | 6.6          | 0     | 0             | 9.2          | 0      | 0            | 5.2          | 4.28  | 82    |    |
|              | Farm Field School  |                            | 3.53         | 0.88  | 25            | 4.41         | 0      | 0            | 2.65         | 2.64  | 100   |    |
| <b>Total</b> |  | <b>104.08</b>              | <b>20.68</b> |       | <b>161.87</b> | <b>124.9</b> |        | <b>88.18</b> | <b>53.33</b> |       |       |    |



19. The evaluation report has reported very low participation of NGOs? What are the reasons for the same? Are there differences across the regions?

NGOs not come forward directly because of low monetary allocation but their participation is seen during meetings, workshops, trainings, exposure visits, SREP preparation etc.

20. Whether NGOs have implemented the assigned tasks in time and as per ATMA guidelines?

If not state the reasons there of

The task of developing / revisiting SREP / conducting Training / EVs entrusted to the reputed NGOs in some of the districts. But the assigned tasks not attended in time due to Assembly elections in the State and other formalities of administrative issues.

21. The assessment of functioning of the following institutions as compared to the mandate, including monitoring, meeting and physical & financial achievements to be reviewed

- a) District level ATMA steering committees
- b) Taluk level ATMA implementation committees
- c) SAMETI (S) & (N)
- d) KVK & SAUS
- e) Line Departments & IDWGs
- f) Women representatives in different committees
- g) Farmers representatives in different committees (BFAC & DFAC)

The success of any project is dependent on institutional, administrative skills besides financial status review through appropriate review mechanism. Indeed, the review institutions like DLASC, BLASC, KVK, Line Departments are basic institutions to implement & monitor ATMA progress at their respective jurisdictions. An attempt has been made to elicit the functional capacity of these institutions for the benefit of farming community while implementing ATMA programme

The findings are as follows

ATMA GB / DLAIC : As a mandate it is proposed to conduct 4 meetings in each of the district across the RD. Except Chickballapur & Tumkur (3 meetings each) while rest of districts only 1 -

2 meetings conducted. Similarly except Bellary (2 meetings) the rest of the districts viz Kalaburgi, Raichur, Yadagir have Conducted one each meeting during 2017-18.

However, it is emphasized that the above institutions should own the full responsibility of ATMA success or failure. On observations of various districts with various officers, the ground truth indicated that there is still energy on ATMA objectives by the above officials.

22. Please assess the extent of project impact on the following lines / points.

**A. Farmer benefits:**

(i) **Activities:** From April 2017 to March 2018, the activities mainly implemented in different districts are:

- Developing SREP
- Exposure visits within the district and within the State and interstate,
- Trainings within the District, within the state and interstate.
- Exhibition at District and State level like flower and vegetable shows and Krishi Mela
- Mobilization of farmers groups
- Rewards & incentives – Best organised group.
- Farmer awards – different sectors.
- Farmer – Scientist interaction, designate expert support from KVK, Joint visits by scientist / extension worker.
- Demonstrations in agriculture and allied sectors,
- Kissan Gosties,
- Field Days,
- Capacity building to farmer groups, seed money, food security groups,
- Awards to farmers at district and taluk level,
- Printing and publicity through leaflets, low cost publications,
- Purchase of hand held devices, &
- Display boards, Kala jathas.
- Farmer field school

As many as 69006 farmers have been benefitted under the scheme, of which, 19,939 are women beneficiaries (29%). Revenue Divisions wise, district wise, category wise details is given table 23

**Table: 23**

## Division &amp; district Wise Farmers Benefitted under ATMA 2017 - 18

| Sl No         | District      | General |    | SC   |    | ST   |    | OBC  |    | Minority |   | Total |     | Women |    |
|---------------|---------------|---------|----|------|----|------|----|------|----|----------|---|-------|-----|-------|----|
|               |               | No      | %  | No   | %  | No   | %  | No   | %  | No       | % | No    | %   | No    | %  |
| 1             | Bengaluru     | 2482    | 62 | 609  | 15 | 409  | 10 | 443  | 11 | 33       | 1 | 3976  | 100 | 815   | 20 |
| 2             | Chikabalapura | 1696    | 41 | 559  | 14 | 520  | 13 | 1265 | 31 | 27       | 1 | 4067  | 100 | 1614  | 40 |
| 3             | Chitradurga   | 3593    | 54 | 1420 | 22 | 1118 | 17 | 424  | 6  | 45       | 1 | 6600  | 100 | 2448  | 37 |
| 4             | Davanger      | 4283    | 73 | 648  | 11 | 474  | 8  | 429  | 7  | 50       | 1 | 5884  | 100 | 1394  | 24 |
| 5             | Kolar         | 1521    | 33 | 708  | 15 | 648  | 14 | 1548 | 33 | 222      | 5 | 4647  | 100 | 1710  | 37 |
| 6             | Ramanagar     | 1171    | 64 | 261  | 14 | 9    | 1  | 384  | 21 | 0        | 0 | 1825  | 100 | 473   | 26 |
| 7             | Shimoga       | 4627    | 52 | 1396 | 16 | 849  | 9  | 1898 | 21 | 188      | 2 | 8958  | 100 | 2908  | 32 |
| 8             | Tumkur        | 6026    | 60 | 1808 | 18 | 803  | 8  | 603  | 6  | 80       | 8 | 10043 | 100 | 3013  | 30 |
| Total         |               | 25399   | 55 | 7409 | 16 | 4830 | 10 | 6994 | 16 | 1368     | 3 | 46000 | 100 | 14375 | 31 |
| Kalaburgi R D |               |         |    |      |    |      |    |      |    |          |   |       |     |       |    |
| 1             | Bellary       | 2986    | 55 | 1174 | 22 | 992  | 18 | 224  | 4  | 81       | 1 | 5457  | 100 | 516   | 9  |
| 2             | Bidar         | 2233    | 59 | 300  | 9  | 400  | 11 | 600  | 16 | 200      | 5 | 3700  | 100 | 800   | 22 |
| 3             | Kalaburgi     | 3644    | 55 | 1315 | 14 | 643  | 10 | 743  | 11 | 250      | 4 | 6595  | 100 | 3352  | 51 |
| 4             | Kopal         | 1639    | 58 | 380  | 15 | 300  | 11 | 339  | 12 | 141      | 5 | 2799  | 100 | 487   | 17 |
| 5             | Raichur       | 1525    | 62 | 375  | 19 | 245  | 10 | 225  | 9  | 95       | 4 | 2465  | 100 | 301   | 12 |
| 6             | Yadgir        | 979     | 49 | 374  | 17 | 228  | 11 | 329  | 17 | 80       | 4 | 1990  | 100 | 108   | 5  |
| Total         |               | 12973   | 56 | 3918 | 17 | 2808 | 12 | 2451 | 11 | 847      | 4 | 23006 | 100 | 5564  | 24 |

The farmers who have attended the exposure visits were found motivated towards better technological approaches. In respect of trainings, farmers have benefitted by way of skill upgradation and capacity building and by organising demonstrations / Kissan Gosties/ field days, the farmers were seen benefitted through not only skill upgradation, capacity building but also input requirement and low cost technologies. The farmers interviewed during on-farm interaction have expressed the usefulness and satisfaction about the programmes they attended and they have also expressed their willingness to adopt such practices in their fields in future.

**b) Women/ SC/ ST/ OBC Farmers benefitted:** The details of farmers benefitted during the course of implementation of ATMA activities from April 2017 to March 2018, is given in Table 19

It is seen that as a result of ATMA activities, a total of 46,000 farmers have been benefitted in Bengaluru Revenue division. Out of this, 7409 are SC farmers, 4630 are ST farmers, 6994 are OBC farmers and 1368 farmers belong to minority communities. This forms coverage of 16%, 10%, 16% and 3% of SC, ST, OBC and minorities, respectively. The major coverage is from general category 55 of the total women registers 31%.

In Kalaburgi Revenue Division, out of the total 23,006 farmers benefitted during 2017-18, as many as 3918 farmers are from SC, 2808 are from ST, 2451 are from OBC and 847 belong to minority communities, forming 17%, 12%, 11% and 4%, of the total farmers respectively. The major coverage is from general category 56 of the total the women percentage register about 24%.

### **Specify the role of SAMETI's in general and capacity building of ATMA staff**

#### **1. The role of SAMETI in general and capacity building of the ATMA staff**

State Agricultural Management and Extension Training Institute (SAMETI) works under the overall guidance of the State Nodal Officer of Agriculture Technology Management Agency (ATMA) at state level. SAMETI is headed by Directors of Extension of UAS, Bengaluru and UAS, Dharwad. This SAMETI ensures regular trainings and skill up-gradation of state and district/ block level extension functionaries through the SAMETI man power.

#### **Capacity building of ATMA staff**

ATMA staff includes staff of all line/ development departments, NGOs & others who are involved in agricultural & allied development activities. For these people the following activities are undertaken.

- Conducting training need assessment of ATMA staff
- Preparation of annual training calendar
- Training of ATMA staff
- Organizing exposure visits
- Publication of success stories
- Publication of folders on ATMA
- Guidance on preparation of agriculture development tools like Strategic Research Extension Plan (SREP)
- Networking with concerned public and private institutions
- Monitoring of ATMA extension activities and guidance in implementation of activities

Evaluation of activities for improvement of ATMA

## 22. A (c) Introduction of new crops / new farm activities and adoption of new and or sustainable technologies.

One of the major impact factor for measuring the impact efficiency and sustainability of any natural resources technology across the farming community is through introduction of new crops, innovative location specific farm activity that have been adopted in order to sustain the food production and economic stability is the major concern of ATMA Scheme. In this direction in both the Revenue divisions in Bengaluru and Kalaburgi, the project staff have taken adequate care to carryout the above activities.

It is evident from the table that introduction of newer variety Green gram, Minor millets combined with seed treatment and INM has resulted in desirable impact in grain production as well as economic productivity. Besides farm practices like prevention of Sugar cane trash burning, recycling of organic waste, use of neem coated urea has led to significant and notable increased crop yields.

**Table: 24** **Details of the Crop Yields**

| Sl. No. | Demo crop           | Crop yield (Qtl/Ac) |               | Percentage of increase |
|---------|---------------------|---------------------|---------------|------------------------|
|         |                     | Bench mark          | Demonstration |                        |
|         | <b>Bengaluru RD</b> |                     |               |                        |
| 1       | Paddy               | 40                  | 43            | 7.5                    |
| 2       | Groundnut           | 19.00               | 24.00         | 26                     |
| 3       | Navane              | 3.125               | 5.00          | 60.00                  |
| 4       | Ragi                | 6.75                | 9.75          | 44.00                  |
| 5       | Redgram             | 7.40                | 11.40         | 54.00                  |
|         | <b>Kalaburgi RD</b> |                     |               |                        |
| 6       | Maize               | 50.00               | 55.00         | 10.00                  |
| 7       | Groundnut           | 20.00               | 21.25         | 6.00                   |

That apart, introduction of B.T cotton, crop cultivation practices of Intercrop in Tur& Navane, inter cropping of medicinal cucumber in cotton crop, paired row planting of sugarcane with wide spacing, transplanting of Redgram also resulted in improved productivity. Also linkage between growers & whole sale market, transplanting of Bengalgram & Tur. Popularization of Hebbevu – as agro-forestry model, Tipping in Tur crop are some of the new practice recommended and adopted for improved production.

The innovative technologies which have proven themselves in enhancing the productivity, quality needs to be upscaled through Concurrent Monitoring & Evaluation process at all levels of implementation in order to maintain the quality and acceptance.

Besides, there should be on the spot assessment of the technologies for its practical implementation by implementing agencies in order to improve the desired output as per the protocol. The district wise details furnished in the table :

**Table: 25 Introduction of new crops, new farm activities & adoption of new or sustainable technologies**

| Sl. No. | R.D / Districts     | New Crop, new farm activities & sustainable technologies  |
|---------|---------------------|---|
|         | <b>Bengaluru RD</b> |   |
| 1       | Bengaluru           | Appraisal of Dibbling method, Ragi harvesting by use of Reapers, Soil health, Oil Cake, Mulching, Azola cultivation |
| 2       | Chickballapur       | Drip fertigation in Ground nut  |
| 3       | Chitradurga         | Inter cropping of medicinal Cucumber in Cotton crop   |
| 4       | Ramanagara          | 1) Mango & minor Millets as inter crop especially in young mango gardens  |
|         |                     | 2) Linkage between growers and wholesale market   |
|         |                     | 3) Training on Fast growing trees   |
| 5       | Shimoga             | 1) Farm mechanization   |
|         |                     | 2) Reduction in use of Nitrogenous fertilizers  |
|         |                     | 3) Use of Cow mats  |
|         |                     | 4) Mineral mixture cattle feed - increase in fertility and milk yield   |
|         |                     | 5) Rotary mountages   |
|         |                     | 6) Compost culture  |
|         |                     | 7) Ice box Kits   |
|         |                     | 8) Mixed cropping   |
| 6       | Tumkur              | 1) Red gram - Dibbling method   |
|         |                     | 2) Introduction of BRG - 5, variety - Redgram   |
|         |                     | 3) Inter cropping of pepper in Arecanut gardens   |
|         |                     | 4) Assistance in Marketing Agricultural produce   |
|         |                     | 5) Emphasis on Integrated farming system  |
| 7       | Kolar               | Popularizing - Minor Millets - Local - 15 varieties IPM in Mango  |
|         | Kalaburgi RD        |   |
| 1       | Bellary             | 1) DSR Technology - Reduction of cost of cultivation  |
| 2       | Bidar               | 1) New variety - Green gram - BG - 9  |
|         |                     | 2) Sugarcane Trans planting   |
|         |                     | 3) Trans planting of Toor, Bengalgram   |

|   |           |  |
|---|-----------|--|
| 3 | Kalaburgi | 1) More emphasis given on Improved cultivation practices of Toor crop for increased crop yield |
|   |           | 2) Since the district is Toor bowl of Karnataka  |
| 4 | Koppal    | 1) Hebbevu - (Dubiamelia) as Agro forestry   |
|   |           | 2) Organic farming   |
|   |           | 3) Drip Irrigation   |
| 5 | Raichur   | 1) Introduction of Minor millets, Mush room cultivation, Groundnut K - 9, New paddy 1039       |
| 6 | Yadagir   | 1) Cotton - Fermantraps  |
|   |           | 2) Laser levelling   |
|   |           | 3) Tipping in Toor crop  |
|   |           | 4) Introduction of KNM Groundnut   |

### 22.A (d) Coverage of activities in allied sector

As it is a known fact that convergence of allied sector activities, which do support agriculture production, sustainability has been observed a step in right direction. Further, it is observed that convergence of animal activity like animal health camps, sericulture, fisheries have led to improved productivity across the division with regard to almost all crops.

### 22. A (e) Assistance in marketing of Agriculture produces

It is a well known fact that a produce profitability is dependent on market price in and around production zone. It is observed that formation of commodity based organizations(CIG's & FIG's) have led to improved economic returns through reducing the cost of handling the produce by forming farmers organization, perhaps such type of organizations are adopted in almost all crop production zones of farming community.

One of the reasons for low performance of convergence of Agricultural commodity products & market linkages in enhancing the income of farming community is due to the fragmented land holdings and low volume production of commodity. Hence, it is proposed to organize Community Based Organizations (CBOs) in order to meet the market demand & supply leading to ensured enhanced income.

This may be achieved through capacity building of farmers for formation of CBOs. Besides there is need to strengthen the farmers on the relevance of online trading & market intelligence. In addition, required training programmes may be organized for the benefit of farming community on the market related issues i.e market led extension activities may be integrated with extension

activities from SREP stage itself. In addition, it may also been encouraged through formation of whatsapp groups from among FIGs.

## 22 B (a) Formation of Commodity based farmer interest groups

Of late, it has been realized that it is almost important to sustain & stabilize farmers income which is highly dependent on market. As is known in rural areas the production of commodity is restricted to small holdings with low production leading to cost escalation on transportation of small produce, for which formation of commodity based farmers into groups have proved to be highly viable and economical, consequent to implementation of ATMA scheme enforcing the commodity interest groups across the two revenue divisions. It has been observed that the commodity groups have been accepted by the farming community and adopted.

Examples of few successful commodity based farmers interest groups are as follows.

**Table: 26**

| Sl. No. | RD        | District      | Taluk         | Name of CIGs   |
|---------|-----------|---------------|---------------|--|
| 1       | Bengaluru | Bengaluru     | Doddaballapur | Sri Lakshmi, Karagoda, Atma SHG, Kestur  |
|         |           | Chickballapur | Gudibanda     | 1) Sri Vinayaka ATMA Raitha Sangha, Chikka Kurubarahalli<br>2) Sri Maruthi ATMA Raitha Sangha, Polanpalli. |
|         |           | Chitradurga   | Chitradurga   | Maruthi Ashakthi Mahila Gumpu, Madakaripura  |
|         |           | Davanagere    | Honnali       | 1) Vigneshwara Mahila Sangha, Kenchi koppa<br>2) Basaveshwara Mahila Sangha, H Kadada halli                |
|         |           | Kolar         | Srinivasapur  | Siri Dhanyagala Sangha, Gundammanatha  |
|         |           | Tumkur        | Tiptur        | Sri Shankarashwara Mahila Shakthi Gumpu, Vittalapura   |
|         |           | Shimoga       | Thirthahalli  | 1) Annapurneshwari FSG, Bukkalapura<br>2) Shiva Shakthi FSG, Koulurkoppa                                   |
|         |           | Ramanagara    | Magadi        | Sri Shankeshwara Hoo Belegarara Sangha, Motagondanahalli   |

22. B(b) : Bottom up planning : Bottom up planning is a process of listing, preparing different agricultural activities at grass root level and prioritization i.e. individual farmer level is the basic concept of bottom up planning.



It has been observed across two R.D's that in spite of emphasis of ATMA, prioritization of bottom up planning, though majority adopted in Principle based on BFAC, DFAC resolutions, it is very feeble. It would have been much more better, had it been implemented ATMA scheme on the principles of bottom up planning, there would have been greater/ much more impact on productivity & economic stability. Hence, once again stressed that in future planning, proper SEWP should be based on the principles of Bottom up planning approach and needs to be reviewed at all levels of implementation.

22.B (c) Decentralized multi agency and flexible decision making and implementation : The process of decentralization and flexible decision making and implementation though well accepted and documented, considering the views of BTT resolved during block level meetings. It is stipulated in the guidelines that in order to ensure promotion of multi agency extension strategies and to implement the scheme activities more efficiently and effectively, atleast 10% of allocation on recurring activities at district level have to be incurred through non government sectors viz Ngo's, Farmer Organisations, Co-operatives, Para extension workers agri-pruners, input suppliers, corporate sectors etc.

During the year 2017-18 it has been observed that in both the revenue divisions, in some districts like Kalaburgi, Bengaluru, Chickballapur, Davanagere, Ramanagara the assistance of NGOs have been taken for organising/ conducting / capacity building, exposure visits, farmer groups, farmer field school, Kissangosti, SREP preparation, farmers scientist interactions etc. However the involvement in the form of fund allocation is inadequate

22.B (d) Farmer to Farmer extension: The concept of F to F Extension is recent origin of extension methodology in transferring the knowledge of location specific technology at grass root level. Indeed majority of the technologies which transmitted the new technology to the farming community through this methodology has succeeded in achieving the objectives of ATMA. However the above methodology needs to be further strengthened and implemented by appropriate monitoring mechanism of administration by utilizing the services of ATMs & BTMs in all R.Ds.

22.B (e) Research Extension Farmer (R – E – F) Linkages : It has been observed across R.Ds that the concept of R – E – F Linkages has been well accepted by the officials and extension workers of line departments which is note worthy. Nevertheless they have failed to document researchable issues though prevailing, they have not transmitted to SAUs to take up further researches which is a missing link.

Further, it is observed that there is poor participation of scientists of State Agricultural universities across two RDs. Hence it is need of hour that the IDWG will issue suitable direction to the respective agricultural / horticultural / Animal Husbandry universities to initiate proper researchable works based on location specific issues.

It has been observed that organizing Training Programmes, the line department officials are spending more financial resources towards long distance travel, transportation charges in respect of exposure visits / Training programmes

The Major concept is for strengthening of location specific technologies, training programme. Hence, in future the line department officials need to avoid long distance travel Trainings / Exposure visits

23. What has been the level of involvement of different line departments and Research organizations / FOs in implementing the scheme? Can some suggestion can be made for improving the weak areas, if found?

According to ATMA guidelines, it is very much essential to involve different line depts. / Research Organisation (RO) / Farmers Organisation (FO) and also Non Government Organisations (NGOs) in implementation the scheme. But it has been observed that though majority of the district level officers have involved the research organizations / FO in few of the incidences / activities only across RDs. It was informed by the implementing agency as well as other officials of RO and FOs that there is inadequacy of financial resources to be released for taking up of all the activities concern to location specific area and basic reason being that major share of allotment goes to administrative cost of the project. Hence, this issue needs to be discussed and sorted out

As a suggestion to above issue it is suggested that DoA should ear mark 1% of the total outlay of the budget towards Research grants across two Revenue Divisions

### **Participation of other line / allied departments & fund allocation to be highlighted**

The fund allocation & utilization by line departments is given below.

**Participation of line / Allied departments and fund allocation / Expenditure**

| Sl. No. | District            | Line Departments |              |               |              |              |              |              |              |              |              | (Rs. in Lakhs) |              |
|---------|---------------------|------------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|
|         |                     | Animal Husbandry |              | Horticulture  |              | Sericulture  |              | Fisheries    |              | Forest       |              | Total          |              |
|         | <b>Bengaluru RD</b> | Alloctn.         | Expd.        | Alloctn.      | Expd.        | Alloctn.     | Expd.        | Alloctn.     | Expd.        | Alloctn.     | Expd.        | Alloctn.       | Expd.        |
| 1       | Bengaluru           | 2.888            | -            | 4.285         | -            | 1.80         | -            | 1.53         | -            | -            | -            | 10.50          | -            |
| 2       | Chickballapur       | 0.272            | 0.272        | 0.10          | 0.10         | 0.225        | 0.225        | 0.90         | 0.90         | -            | -            | 1.50           | 1.50         |
| 3       | Chitradurga         | 0.853            | 0.853        | 1.00          | 1.00         | 0.75         | 0.75         | 0.80         | 0.80         | -            | -            | 3.40           | 3.40         |
| 4       | Davanagere          | 1.4              | 1.394        | -             | -            | 0.25         | 0.25         | -            | -            | -            | -            | 1.65           | 1.644        |
| 5       | Kolar               | -                | -            | -             | -            | nil          | -            | -            | -            | -            | -            | -              | -            |
| 6       | Ramanagar           | 1.19             | 1.19         | 1.535         | 1.535        | 2.869        | 2.869        | 0.32         | 0.32         | -            | -            | 5.914          | 5.914        |
| 7       | Shimoga             | 3.358            | 3.358        | 1.685         | 1.689        | 0.74         | 0.74         | 1.132        | 1.132        | -            | -            | 6.915          | 6.919        |
| 8       | Tumkur              | 0.75             | 0.75         | 0.362         | 0.362        | 1.04         | 1.04         | 0.062        | 0.062        | 0.125        | 0.125        | 2.339          | 2.339        |
|         | <b>Total</b>        | <b>10.711</b>    | <b>7.817</b> | <b>8.971</b>  | <b>4.686</b> | <b>7.674</b> | <b>5.874</b> | <b>4.744</b> | <b>3.214</b> | <b>0.125</b> | <b>0.125</b> | <b>32.22</b>   | <b>21.72</b> |
|         | <b>Kalaburgi RD</b> |                  |              |               |              |              |              |              |              |              |              |                |              |
| 9       | Bellary             | 0.15             | 0.15         | 1.003         | 1.003        | -            | -            | -            | -            | -            | -            | 1.153          | 1.153        |
| 10      | Bidar               | -                | -            | -             | -            | -            | -            | -            | -            | -            | -            | -              | -            |
| 11      | Kalaburgi           | 1.25             | 1.25         | 2.05          | 2.05         | -            | -            | -            | -            | -            | -            | 3.3            | 3.3          |
| 12      | Koppal              | -                | -            | -             | -            | -            | -            | -            | -            | -            | -            | -              | -            |
| 13      | Raichur             | -                | -            | 1.45          | 1.45         | 1.13         | 1.13         | -            | -            | -            | -            | 2.58           | 2.58         |
| 14      | Yadagir             | -                | -            | -             | -            | -            | -            | -            | -            | -            | -            | -              | -            |
|         | <b>Total</b>        | <b>1.40</b>      | <b>1.40</b>  | <b>4.503</b>  | <b>4.503</b> | <b>1.13</b>  | <b>1.13</b>  | <b>-</b>     | <b>-</b>     | <b>-</b>     | <b>-</b>     | <b>7.03</b>    | <b>7.03</b>  |
|         | <b>Grand Total</b>  | <b>12.11</b>     | <b>9.217</b> | <b>13.474</b> | <b>9.189</b> | <b>8.804</b> | <b>7.004</b> | <b>4.744</b> | <b>3.214</b> | <b>0.125</b> | <b>0.125</b> | <b>39.25</b>   | <b>28.75</b> |

Against allocation of field level activities i.e., Rs. 734.53 lakhs, an amount of Rs. 39.25 lakhs allocation made for line departments which works out to 5.34%.

24. The Evaluation Report for 2015-16 indicates very low involvement of other departments in the ATMA activities. What are the reasons for the same? What measure have been taken to strengthen their participation? Are there any differences across the divisions?

The awareness on the cafeteria of activities is a multidimensional one. A review of recent progress of ATMA for the year 2017-18 has revealed that there is an improvement in convergence of line departments in various activities with focused attention on high income based activities such as dairy, poultry, honeybee, sheep & goat rearing, Integrated Farming System (IFS)etc.

Further, it could be emphasized that the basic reason for low involvement of other departments in the ATMA activities is mainly due to in-adequacy of staff at block / field level. It was observed that Model village & bottom up planning concept covering all department has been emphasized and envisaged by the SNO. This need to be looked into.

25. Whether the grants are released in time to implementing agencies? If not, why not

The Department of Agricultural is a nodal agency in monitoring and release of budgetary provision to the other implementing agencies in order to implement the location specific technology interventions on time is the need of the hour. However, it has been observed that there is inordinate delay in release of grants to other line departments, besides some of the line departments though required budget released, they have failed to execute the programme expressing their inability to spend the amount.

In order to enhance the efficiency of grants release, if the IDWG review committee, review the programme quarterly it would add to the effectiveness of ATMA. During 2017-18 grants to districts / SAMETI (N) (S) released as under.

**Table: 27**

| Sl. No | Date                                | Amount Released<br>(Rs. in lakhs) | Percentage |
|--------|-------------------------------------|-----------------------------------|------------|
| 1      | 18.08.2017                          | 811.00                            | 23         |
| 2      | 14.11.2017                          | 558.22                            | 16         |
| 3      | 16.12.2017                          | 175.50                            | 5          |
| 4      | 20.02.2018                          | 428.28                            | 12         |
| 5      | 16.03.2018                          | 344.12                            | 10         |
| 6      | Opening Balance as on<br>01.04.2018 | 1236.74                           | 34         |
|        | <b>Total</b>                        | <b>3553.86</b>                    | <b>100</b> |

It was observed that adequate grants are on hand that is nearly 57% of total with all districts by the month of August 2017. Further, as per GOI norms, the second instalment of grants in the current year will be released only after submission of previous years utilization certificate by the states. This aspect need to be examined

26. Has the audit of the ATMA Accounts been completed for the year 2016-17 by CA and the same is sent to GoI? If not reasons thereof

Audit of ATMA accounts for the year 2016-17 has been completed in all districts during 2017-18. The dates of submission of Audit Reports to the S NO by the districts is presented in the following table.

**Table : 28**

**Audit of ATMA accounts for the year 2016-17**

| Sl. No. | District       | Auditor                        | Audit conducted | Audit report submitted to DoA | Utilization certificate in Form GFR 19 - A |
|---------|----------------|--------------------------------|-----------------|-------------------------------|--|
|         | Bengaluru R.D  |                                |                 |                               |  |
| 1       | Bengaluru      | M S Krishnayya & B R Gopal Rao | 25.07.2018      | submitted                     | Yes  |
| 2       | Chikaballapura | -                              | -               | submitted                     | -  |
| 3       | Chitradurga    | Prabhod Kulkarni               | 28.06.2017      | 28.06.2017                    | Yes  |
| 4       | Davanagere     | Modi Davalagi & co             | Jun-17          | submitted                     | Yes  |
| 5       | Kolar          | M K P S Associates             | 23.09.2017      | 23.09.2017                    | Yes  |
| 6       | Ramanagar      | -                              | -               | submitted                     | -  |
| 7       | Tumkur         | Veeresh KR & co                | 15.06.2017      | 15.06.2017                    | Yes  |
| 8       | Shimoga        | B. N. Bhat & co                | 29.06.2017      | 29.06.2017                    | Yes  |

| Sl. No. | District       | Auditor               | Audit conducted | Audit report submitted to DoA | Utilization certificate in Form GFR 19 - A |
|---------|----------------|-----------------------|-----------------|-------------------------------|--|
|         | Kalaburgi R. D |                       |                 |                               |  |
| 1       | Bellary        | TC Gowda              | 06.09.2017      | 08.09.2017                    | Yes  |
| 2       | Bidar          | KK Attal & Associated | 02.08.2017      | submitted                     | Yes  |

|   |           |                            |            |            |     |
|---|-----------|----------------------------|------------|------------|-----|
| 3 | Kalaburgi | RP Biyapur & co            | 30.10.2017 | submitted  | Yes |
| 4 | Koppal    | Basavaraj onki             | 07.10.2017 | 07.10.2017 | Yes |
| 5 | Raichur   | Shekhar patel              | 23.06.2017 | 04.07.2017 | Yes |
| 6 | Yadgir    | Avanthi patel & Associated | 14.09.2017 | 15.09.2017 | Yes |

27. How many success stories under different ATMA activities have been submitted to GOI as per ATMA activities have been submitted to GoI as per ATMA guidelines? How many success stories have been published at the district level?

As many as 89 success stories have been prepared covering agriculture and allied sectors in both Bengaluru – (77) & Kalaburgi – (12) RD. It has been observed that except Kalaburgi district none of the districts not forwarded success stories to GOI. However majority of the districts have documented, only one of them published at local level. The concept of success stories is a mirror reflection of technology intervention of ATMA project and is a best mechanism in reaching the unreached at a faster rate as it involves farmer to farmer extension (teaching & learning) both block & district level.

| Sl. No. | Bengaluru RD   | Sectors      |                  |               |              |           |        | Sent to GOI    | Published at District Level | Remarks                |
|---------|----------------|--------------|------------------|---------------|--------------|-----------|--------|----------------|-----------------------------|------------------------|
|         |                | Agri-culture | Animal Husbandry | Horti-culture | Seri-culture | Fisheries | Forest |                |                             |                        |
| 1       | Bengaluru      | 3            | -                | 1             | -            | -         | -      | -              | -                           | DB. Pura & Devanahalli |
| 2       | Chikaballapura | 7            | -                | 2             | -            | -         | -      | -              | -                           | only gudibande Tq      |
| 3       | Chitradurga    | 2            | -                | 1             | -            | -         | -      | -              | -                           | not sent not published |
| 4       | Davanagere     | 6            | 1                | 2             | -            | -         | -      | sent to H O    | -                           | -                      |
| 5       | Kolar          | 11           | -                | -             | -            | -         | -      | sent to SAMETI | -                           | -                      |
| 6       | Ramanagar      | 20           | -                | -             | -            | -         | -      | -              | -                           | ADAS to JDA            |

|                      |           |           |          |          |   |   |   |                      |                             |          |
|----------------------|-----------|-----------|----------|----------|---|---|---|----------------------|-----------------------------|----------|
| 7                    | Tumkur    | 2         | -        | -        | - | - | - | not sent             | not published               | -        |
| 8                    | Shimoga   | 18        | 1        | -        | - | - | - | Sent to SNO          | -                           | -        |
| <b>Total</b>         |           | <b>69</b> | <b>2</b> | <b>6</b> | - | - | - | -                    | -                           | -        |
| <b>Kalaburgi R D</b> |           |           |          |          |   |   |   |                      |                             |          |
| 1                    | Bellary   | -         | -        | -        | - | - | - | -                    | -                           | not done |
| 2                    | Bidar     | 3         | -        | -        | - | - | - | sent to JDA          | -                           | -        |
| 3                    | Kalaburgi | 4         | -        | -        | - | - | - | sent to HO on 7.3.18 | published at district level | -        |
| 4                    | Koppal    | -         | -        | -        | - | - | - | -                    | -                           | not done |
| 5                    | Raichur   | -         | -        | -        | - | - | - | -                    | -                           | nil      |
| 6                    | Yadgir    | 5         | -        | -        | - | - | - | sent to HO           | published in local news     | -        |
| <b>Total</b>         |           | <b>12</b> | -        | -        | - | - | - | -                    | -                           | -        |

The steps proposed to be adopted in upscaling the innovative technologies is through farm field schools / Demo / Exposure visits, farmer awards & rewards to farmer groups.

There should be a compulsory vetting of innovative technologies by the concerned line department officers (District level Heads) in order to accept the technology as innovative.

28. Whether Quarterly district level ATMA steering committee and district Farmers Advisory committee meetings have been / are conducted as per guidelines? If not, reasons there of.

The ATMA DLAIC/ GB is a policy making body which provides guidelines, review and steers the progress and funding of the ATMA and conducts meetings once in every quarter. Similarly the DFAC should comprise about 25 farmers which as an agency for providing farmers feed back and inputs for preparation of/ compilation of Action plans and for prioritization of activities.

As against conducting four quarterly meetings each of DLAIC (GB) and DFAC, only one each meeting conducted except 1 or 2 districts, District wise details furnished in table.

**Table:30 DFAC - Assessment of Functioning of Committees and Institutions**

| Sl. No.              | Bengaluru RD   | Year of Formation | Total Members | No. of Non-official members | No. of Meetings |         |          |         | Remarks  |
|----------------------|----------------|-------------------|---------------|-----------------------------|-----------------|---------|----------|---------|----------|
|                      |                |                   |               |                             | I               | II      | III      | IV      |          |
| 1                    | Bengaluru      | -                 | -             | -                           | -               | 5.8.17  | -        | -       | -        |
| 2                    | Chikaballapura | -                 | -             | -                           | 20.6.17         | -       | 14.11.17 | -       | -        |
| 3                    | Chitradurga    | 6.5.17            | 13            | 12+1                        | 6.5.17          | -       | -        | 12.3.18 | -        |
| 4                    | Davanagere     | 1.6.17            | 22            | 12+2                        | -               | -       | 4.10.17  | -       | -        |
| 5                    | Kolar          | 15.2.18           | 25            | 4                           | -               | -       | -        | 15.2.18 | -        |
| 6                    | Ramanagar      | -                 | -             | -                           | -               | -       | 21.10.17 | 27.1.18 | -        |
| 7                    | Tumkur         | Apr-17            | 24            | 22+2                        | -               | -       | 23.10.17 | 15.2.18 | -        |
| 8                    | Shimoga        | 19.7.17           | -             | -                           | -               | 19.7.17 | 4.11.17  | -       | -        |
| <b>Total</b>         |                |                   | <b>84</b>     | <b>50+5</b>                 |                 |         | -        | -       | -        |
| <b>Kalaburgi R D</b> |                |                   |               |                             |                 |         |          |         |          |
| 1                    | Bellary        | Jan-16            | 22            | 13+9                        | -               | 28.9.17 | -        | 3.2.18  | -        |
| 2                    | Bidar          | 2015              | 25            | 5+3                         | -               | -       | -        | -       | Not done |
| 3                    | Kalaburgi      | Apr-17            | 20            | 6+2                         | 5.4.17          | -       | -        | -       | -        |
| 4                    | Koppal         | Aug-17            | 25            | 8+1                         | -               | -       | 17.10.17 | -       | -        |
| 5                    | Raichur        | 3.6.2017          | 20            | 2+2                         | 3.6.17          | -       | -        | -       | -        |
| 6                    | Yadgir         | Apr-17            | 18            | 2+2                         | 30.6.17         | -       | -        | -       | -        |
| <b>Total</b>         |                |                   | <b>130</b>    | <b>36+19</b>                |                 |         | -        | -       | -        |

**Table: 31 ATMA G.B - Assessment of Functions of Committees and Institutions**

| Sl. No. | Bengaluru RD   | Year of Formation | Total Members | No. of Non-official members | No. of Meetings |         |          |         | Remarks |
|---------|----------------|-------------------|---------------|-----------------------------|-----------------|---------|----------|---------|---------|
|         |                |                   |               |                             | I               | II      | III      | IV      |         |
| 1       | Bengaluru      | -                 | -             | -                           | 5.8.17          | -       | -        | -       | -       |
| 2       | Chikaballapura | -                 | -             | 12                          | -               | 3.8.17  | 12.12.17 | 14.2.18 | -       |
| 3       | Chitradurga    | 18.7.17           | 18            | 8                           | -               | 18.7.17 | -        | -       | -       |
| 4       | Davanager      | 1.6.17            | 24            | 11                          | 8.6.17          | -       | 11.12.17 | -       | -       |
| 5       | Kolar          | 15.2.18           | 22            | 12                          | -               | -       | -        | 15.2.18 | -       |
| 6       | Ramanagar      | -                 | -             | -                           | -               | -       | 21.10.17 | 27.1.18 | -       |



|              |         |         |           |           |         |         |   |         |   |
|--------------|---------|---------|-----------|-----------|---------|---------|---|---------|---|
| 7            | Tumkur  | 11.5.09 | 25        | 8         | 22.7.17 | 12.9.17 | - | 15.2.18 | - |
| 8            | Shimoga | 31.5.17 | -         | -         | -       | 23.9.17 | - | 16.2.18 | - |
| <b>Total</b> |         |         | <b>89</b> | <b>51</b> |         |         |   | -       | - |

**Kalaburgi R D**

|              |           |         |            |                         |         |   |   |          |          |
|--------------|-----------|---------|------------|-------------------------|---------|---|---|----------|----------|
| 1            | Bellary   | Jun-14  | 20         | 10                      | -       | - | - | -        | not done |
| 2            | Bidar     | Mar-17  | 25         | 8                       | -       | - | - | 29.01.18 | -        |
| 3            | Kalaburgi | Apr-17  | 20         | 4                       | 5.4.17  | - | - | -        | -        |
| 4            | Koppal    | 10.4.16 | 20         | 6                       | -       | - | - | -        | not done |
| 5            | Raichur   | Apr-17  | 22         | 4                       | 3.6.17  | - | - | -        | -        |
| 6            | Yadgir    | Apr-17  | 18         | 2+2+DLW                 | 30.6.17 | - | - | -        | -        |
| <b>Total</b> |           |         | <b>125</b> | <b>32 + 2 + 2 + DLW</b> |         |   |   |          |          |

**Impact of Success stores & rewards to farmer groups**

As many as 129 success stories have been prepared of which 97 prepared in Mysore RD and only 34 prepared in case of Belgavi RD covering Agricultural, Horticulture, Sericulture, Fisheries sector forest.

As seed from the success stories, IFS technology proved to be successful in generating farmers income in a sustainable manner. Details of few success stories with their subjects/ technology issues are presented below

| Sl No | Subject/ S/S Titles Beneficiary   | Impact                                       |
|-------|---|--|
|       | Growing of Tomato under poly house  | Yield 18 tons per acre                       |
|       | Integrated farming system (Tomato_Dairy)<br>Chikkanarayanappa S/o<br>Chikkavenkatappa swamy Yegavarkpalli,<br>CB pura | Net profit 4,00,000 ( 9.5 -5.5 lakhs)        |
|       | A to Z mechanization in Paddy   | Net profit Rs. 65, 625 Rs ( 98,575 – 32,950) |
|       | Integrated Farming System and organic farming<br>Smt. Kavitha Umashankar, Kavital,                                    | Net income Rs. 26.39 lakhs ( from 12 acres)  |

|  |  |  |
|--|--|--|
|  | Manvi Tq, Raichur Distict  |  |
|  | Animal Husbandry and Farm forestry – value added products by organic farming                           | Products – go arka ( Cow urine) Rs 100/- 500 ml<br>Wood apple jam – Rs 100/- per 300gms<br>Memory pudha – Rs 60/- 100 gms<br>Gooseberry jam – Rs 100/- per 300 gms |
|  | Lowest inputs and High crop yields of Bengal gram  | 3 to 4 qtls additional yield   |
|  | Transplanting method of Tur cultivation - = more income  | Net income 1 by seed drill method Rs. 18,000<br>By transplanting methods Rs. 75.000  |
|  | Paddy mechanized cultivation Mamatha – Jigala villageHAribave Tq,                                      | Net income- organic system 21,300 tredtional method Rs. 17,000   |
|  | Shift from fertilizer farming to organic farming<br>Prasanna kumar, Gowrasagara village, CN Tq, Tumkur | Out of total gross income 75% will be Net income as per Prasanna kumar   |
|  | Scientific farming Groundnut cultivation IPM<br>Gopamma w/o Sriramappa, Gudibande Tq, Cb pura          | 9.72 qtl per acre (Economical)   |
|  | Mechanization in Paddy CultivationChandra shekar/ Ramaiah, Hosnagara, Shimoga                          | Additional income RS 65,625/-  |

Some of the individual farmer wise success stories prepared is enclosed here with. However it is responsibility of the SAMIT to bring out the publications of success stories for the benefit of other farmers. Hence there is need for strengthening of dry land technology with respect of enhancement of productivity of Agricultural crops, Horticulture, Sericulture, Animal husbandry etc needs to be relooked. Details of few success stories with their subjects/ technology issues are presented below

29. Whether the quarterly Taluk level, ATMA Implementation committee and Taluk Farmers Advisory Committee meeting have been/ are conducted as per guidelines? If not, reasons there of .

Similarly the TLAIC/ BFAC as per guidelines should meet and review the monthly progress and report the same to ATMA M. C. among other functions

As against monthly TLAIC meetings, to be checked majority of the taluks have conducted 4 – 5 meetings. This process need to be streamlined in order to make ATMA implementation, effective which, requires appropriate administrative mechanism is the need of the hour

As per guidelines these committees needs to meet mostly driving agricultural seasons and quarterly learn season

30. Whether awards have been / are being given to farmers and groups under ATMA at State, District and Taluk levels as per guidelines? If not, reasons thereof

The concept of providing incentives / rewards and awards for farming community through ATMA is to enthuse the farmer groups & farmers respectively to spread new technological interventions leading to enhanced productivity. It has been observed all the districts (except Davanagere) have failed to provide incentives / rewards to farmer groups except giving away farmer awards.

Hence, there is need for strengthening the implementing agency to recognize more & more farmer groups for incentives rather than congregating only on farmer awards.

**Table: 32 B - 6 Rewards & Incentives, B -7 Farmer Awards 2017 - 18**

| Sl. No.              | Bengaluru RD   | B - 6 Rewards & Incentives |          |           |            |           | Remarks | B -7 Farmer Awards |            |             |             |           | Remarks |
|----------------------|----------------|----------------------------|----------|-----------|------------|-----------|---------|--------------------|------------|-------------|-------------|-----------|---------|
|                      |                | Physical                   |          | Financial |            |           |         | Physical           |            | Financial   |             |           |         |
|                      |                | T                          | A        | T         | A          | %         |         | T                  | A          | T           | A           | %         |         |
| 1                    | Bengaluru      | 5                          | 0        | 1         | 0          | 0         | -       | 30                 | 5          | 3           | 0.5         | 17        | -       |
| 2                    | Chikaballapura | 5                          | 0        | 1         | 0          | 0         | -       | 30                 | 31         | 3           | 3.5         | 117       | -       |
| 3                    | Chitradurga    | 5                          | 0        | 1         | 0          | 0         | -       | 30                 | 20         | 3           | 2           | 66        | -       |
| 4                    | Davanagere     | 5                          | 5        | 1         | 1.2        | 120       | -       | 30                 | 10         | 3           | 1           | 33        | -       |
| 5                    | Kolar          | 5                          | 0        | 1         | 0          | 0         | -       | 25                 | 23         | 2.5         | 2.3         | 92        | -       |
| 6                    | Ramanagar      | 5                          | 0        | 1         | 0          | 0         | -       | 20                 | 5          | 2           | 0.5         | 25        | -       |
| 7                    | Tumkur         | 5                          | 0        | 1         | 0          | 0         | -       | 46                 | 0          | 4.6         | 0           | 0         | -       |
| 8                    | Shimoga        | 5                          | 1        | 1         | 0          | 0         | -       | 35                 | 29         | 3.5         | 3.6         | 171       | -       |
| <b>Total</b>         |                | <b>40</b>                  | <b>6</b> | <b>8</b>  | <b>1.2</b> | <b>15</b> | -       | <b>246</b>         | <b>123</b> | <b>24.6</b> | <b>13.4</b> | <b>54</b> | -       |
| <b>Kalaburgi R D</b> |                |                            |          |           |            |           |         |                    |            |             |             |           |         |

|              |           |           |          |          |          |          |   |            |           |           |            |           |   |
|--------------|-----------|-----------|----------|----------|----------|----------|---|------------|-----------|-----------|------------|-----------|---|
| 1            | Bellary   | 5         | 0        | 1        | 0        | 0        | - | 35         | 25        | 3.5       | 2.50       | 71        | - |
| 2            | Bidar     | 5         | 0        | 1        | 0        | 0        | - | 25         | 0         | 2.5       | 0          | 0         | - |
| 3            | Kalaburgi | 5         | 0        | 1        | 0        | 0        | - | 35         | 0         | 3.5       | 0          | 0         | - |
| 4            | Koppal    | 5         | 0        | 1        | 0        | 0        | - | 20         | 5         | 2         | 0.5        | 25        | - |
| 5            | Raichur   | 5         | 0        | 1        | 0        | 0        | - | 25         | 0         | 2         | 0          | 0         | - |
| 6            | Yadgir    | 5         | 0        | 1        | 0        | 0        | - | 15         | 10        | 1.5       | 0.5        | 33        | - |
| <b>Total</b> |           | <b>30</b> | <b>0</b> | <b>6</b> | <b>0</b> | <b>0</b> | - | <b>155</b> | <b>40</b> | <b>15</b> | <b>3.5</b> | <b>23</b> | - |

As seen from above table, the performance of Rewards component except Davanagere district the progress is nil in respects of remaining thirteen districts. However the performance of farmer awards component is quite good in case of Chickballapur, Shimoga, Chitradurga & Kolar and in remaining ten districts the performance is satisfactory and average. Reasons for poor/nil progress

- Due to lack of adequate time to follow the procedure of selection by ATMA staff This need to be looked into by Project Directors and give proper guidelines for implementing the scheme.

31. Is there duplication of effort and work or linkages in case of RSK, Extention activities of agricultural universities and ATMA ? Suggestions

There is no duplication of efforts / work / linkages in case of RSK / Extention activities of Agricultural universities and ATMA. However need, periodical review by committees at various levels.

32. Suggestions for overall improvement of the scheme through FGD's

**Suggestion / Recommendation are furnished in Chapter No. 10.**

**33. Any other subject Analysis of results district wise in tabular form**

**In order to rate the district with regard to effective implementation of ATMA activities, it is proposed to score the activities implemented in the districts by using the proposed scale of evaluation i.e above 80% as excellent, 61 to 80% as good, 41 to 60% as satisfactory, <40% as average. RD and district wise details presented in Annexure.**

The ranking of the district is based on number of activities which have scored excellent and good have been summarized in the table 1 & 2

| RD     | District        | Grades<br>(Excellent +<br>Good) | Rank |
|--------|-----------------|---------------------------------|------|
| Mysore | Chamarajanagara | 6 + 1 = 7                       | VI   |
|        | Chickmagaluru   | 3 + 6 = 9                       | VII  |
|        | D. Kannada      | 6 + 5 = 11                      | II   |
|        | Hassan          | 6 + 4 = 10                      | IV   |
|        | Kodagu          | 2 + 3 = 5                       | VIII |
|        | Mandya          | 9 + 4 = 13                      | I    |
|        | Mysore          | 6 + 4 = 10                      | III  |
|        | Udupi           | 4 + 7 = 11                      | V    |

From among the districts regarding implementation of various activities of ATMA, Mandya stood first followed by D Kannada, Udupi, Mysore

Table : 2 Belgaum RD

| RD      | District   | Grades<br>(Excellent +<br>Good) | Rank |
|---------|------------|---------------------------------|------|
| Belgavi | Bagalkot   | 8 + 4 = 12                      | III  |
|         | Belgavi    | 13 + 3 = 16                     | II   |
|         | Dharwad    | 4 + 6 = 10                      | V    |
|         | Gadag      | 5 + 5 = 10                      | IV   |
|         | Haveri     | 4 + 2 = 6                       | VI   |
|         | U. Kannada | 13 + 4 = 17                     | I    |
|         | Vijayapura | 4 + 1 = 5                       | VII  |

With regard to implementation of activities of ATMA scheme in Belgavi RD, the U Kannada District stand first followed by Belgaum, Bagalkot and Gadag..

## Chapter - 8

### FINDINGS & DISCUSSIONS

The ATMA Scheme activities undertaken during the year 2017-18 in all the districts coming under Bengaluru & Kalaburgi Revenue Divisions were reviewed by the Evaluation team by visiting the districts / sample taluks during the period December 2017 to June 2018. The study team during the field visits made note of certain aspects and the important ones are given below.

1. The 'Strategic Research and Extension Plan' is not revisited after 2005-06 in some districts and 2007-08 in few other districts. During 2009-10, all districts attended SREP. Further revision though due but not effected and finalized only during 2017-18 and in few districts (Bengaluru, Chitradurga, Davanagere, Shimoga, Kolar) and in remaining districts they are in various stages of completion.
2. Allocations made to Farmer oriented activities, farm information dissemination, technology refinement, revalidation etc., are less whereas, administrative expenses in the Annual Action Plans is more (62% against 28%).
3. Funds to taluks have been released periodically to districts, but releases to line departments made during last quarter of 2017 – 18 in general.
4. In Agriculture sector, the major activities implemented are Exposure visits, Demonstrations, Farm field schools, Kissan Goshties and Training within the district and farm field schools.
5. District level Committees like DFAC and DLAIC are constituted prior to 2017-18 and are continuing.
6. Taluk level Committees like BFAC and BLAIC are also constituted prior to 2017-18 and are continuing. Meetings of these committees are held in all the sample taluks
7. Non-Governmental agencies including NGO's and Agri-entrepreneurs are involved in Training, SREP, KG in few districts Chikabalapura, Ramanagara, Tumkur, Yadgir .

8. Performance of SAMETIs (South) & (North) : Training to extension functionaries of taluks and districts has been conducted. Many more activities approved in the annual action plans are yet to be implemented including refresher trainings to ATMs and BTMs.
9. Weaker sections of society including women representatives covered in a most of the activities
10. Inadequate participation of scientists from agricultural universities across the state in ATMA programmes and needs to be stepped up
11. There is urgent need for orientation training of ATMA workers as seen it is very poorly understood.
12. T & V is a system of training and visit of extension personal in all villages of a block to improve the functioning of various agricultural development programmes / schemes relating to agricultural sector for increased agricultural production, where as ATMA is a system of Agriculture Technology Management to improve the functioning of extension programmes in agriculture & allied fields / sectors to bring out efficiency, effectiveness in extension and development. It is a improved version of T & V system and suits to changing agricultural scenario in the country & state in particular.

**Chapter – 9****REFLECTIONS**

The main objective of the evaluation is to study the performance of the ATMA scheme implemented in Bengaluru & Kalaburgi Revenue divisions during the year 2017-18 in all its dimensions, assess the project impacts and provide suggestions for overall improvement of the scheme. The performance of activities undertaken has been evaluated addressing all the evaluation questions enlisted in the ToR and the realizations or reflections observed by the Consultant Organization are mentioned here under.

Fundamentally, Action Plans of villages, blocks and districts have to be prepared based on the SREP document. These are 5 year vision documents which need to be revisited to accommodate newly identified gaps and emerging areas of importance. Plans prepared in non-compliance with the guidelines result in dilution of scheme implementation and may attract negative impact which ultimately leads to losing sight of priorities.

During the year 2017-18, maximum emphasis has been given in implementation of trainings and exposure visits of farmers within the State and districts. It was observed that many of the farmers have undergone trainings of a day's duration and exposure visits of 1-3 days. The perceptions of beneficiary farmers on these two activities indicate that the trainings provided an opportunity for first hand information whereas; / exposure visits bring confidence in adoption of technologies since '*seeing is believing*' and direct exposure to the realities and impacts. Hence, there is need for promotion of farm schools in a big way under ATMA programme which will enable operationalisation of front line demonstrations. These shall focus on integrated crop management including field preparation, seed treatment, IPM, INM etc. On priority, farm schools, demonstrations, field days and exposure visits are to be planned rather than large scale training programmes.

Another important issue is timely review and monitoring by various State, District and Block level Committees / Officers. It has been observed that such reviews were not adequately held or has been delayed. Not conducting or delay in conducting such Committee meetings / reviews will result in non receipt of guidance/ support by the implementing Officers / field staff.



The BFAC's and DFAC's with required composition of members / farmers need to be reconstituted so as to get farmer's feed back and inputs for preparation / compilation of action plans and prioritization of activities.

The concept of convergence with and involvement of non-governmental sector so as to ensure promotion of multi agency extension strategies is found inadequate in the approved action plans. This is mainly because of the NGO's are not interested in taking part because of low budgetary allocation.

The scheme / officers have to emphasize the goal of achieving objectives of the scheme rather than mere achievement of physical and financial progress. This needs to go hand in hand.

One of the major draw back observed in the project was lack of ownership of the project by the various implementing line departments and this needs to be looked into.

The major outcome of the ATMA project is that, there is slight movement in convergence of line departments in implementing the technologies of enhancement of productivity of commodities but still needs to be strengthened by concentrated approach rather diverting the man power for other work.

## Chapter 10

### Recommendations

FGD is a novel approach in order to bring farmers oneness in efficient implementation of ATMA scheme. The major recommendations of FGD groups in order to strengthen ATMA are as follows

- a) Timely release of technical interventions by the scientists & release of grants to line departments in order to effectively implement ATMA, besides there is need for blending of ITK along with other technological interventions wherever needed.
- b) Strengthening location specific / region specific, commodity based processing, value addition centres coupled with market intelligence / market services.
- c) Convergence of all line departments is needed at Hobli / block level in order to meet the location specific issues.
- d) Major out come of the FGD is to increase & strengthen the concept of model village.
- e) The market linkage to CIGs, FIGs, FPOs need to be strengthened to realise higher price in the market

33) Measures / steps to improve the achievements of ATMA activities in all the districts.

- Prepare calendar of events, month wise in relation to Topic / subject, season, crop requirement etc sector wise.
- Enforce monthly technical review of the programme and progress of ATMA activities / converged department / activities.
- BFAC / DFAC meetings need to be conducted regularly before conducting meetings of BTTs, GBs and Management committees.
- Panchayat Raj Institutions (PRI) are to be technically strengthened and involved in implementation
- Though it is mandatory to involve NG sector agencies as per guidelines to implement ATMA activities, it is not being practiced, need to be involved.
- Need for capacity building of ATMs / BTMs through refresher courses at District level by SAMETI (S) & (N).

**Major bottlenecks**

- Misunderstanding of the concept of ATMA by other convergent departments as Agricultural department programme / scheme
- More absentees of members at Block / District level in the committee meetings leading to less convergence
- Non-participation of Heads of Departments in ATMA committee meetings
- Need for more scientific involvement in ATMA activity
- Need for review of ATMA activities at each level at regular intervals.
- Release of grants is to be based on cafeteria of activities.
- Inadequate participation of Department officials in Training programmes / FFS, Demos, FGDs, Field days.

## Annexure – I

### Sanctioned Terms of reference for the Internal Concurrent Monitoring and Evaluation of Agriculture Technology Management Agency(ATMA) Scheme in Karnataka State during 2017-18 in Belgaum and Mysore Revenue Divisions: PART-1

#### **1. Title of the study:**

Concurrent Monitoring and Evaluation of ATMA (Agricultural Management Technical Agency; Support to State Extension Programmes for Extension Reforms) scheme in Karnataka State during the year 2017-18 in Belgaum and Mysore revenue divisions.

#### **2. Department/Agency implementing the Scheme:**

The Department of Agriculture in the State of Karnataka.

#### **3. Background and the context:**

The scheme "Support to State Extension programs for Extension Reforms" is the main scheme to operationalize agricultural and allied departmental extension reforms across the country. Under the scheme, funding support is being provided to the States/Union Territories for undertaking extension reforms within the broad purview of the Policy Framework for Agriculture Extension (PFAE), complying with its key areas/norms, and being operated based on extension Work plans prepared by them.

#### **4. Present Status of the Scheme:**

ATMA Model of Agricultural Extension Reforms Scheme was implemented during 2005-06 in nine districts of the State namely; Bidar, Gulbarga, Shimoga, Chamarajanagar, Kolar, Koppal, Haveri, Bijapur and Hassan. Since 2007-08, the scheme is being implemented in all the districts of the state.

After the issue of Government Orders, 29 District Level ATMA Steering Committees (DLASC) and 174 Taluk Level ATMA Implementation Committees (TLAIC) have been constituted. The District Level Steering Committees are headed by Chief Executive Officers of the Zilla Panchayaths with the District Joint Director of Agriculture being its Member Secretary. The Taluk level ATMA Implementation Committees have Taluk Assistant Directors of Agriculture as their Chairperson, with the Block Technology Manager of the Taluk being its Member Secretary.

At the State level, the Inter Departmental Working Group (IDWG) is headed by the Additional Chief Secretary & Development Commissioner with Commissioner for Agriculture being the State Nodal Officer. The Agriculture Department of Government of Karnataka is the Nodal Department.

#### **5. Human Resource Development (HRD):**

For HRD and capacity building of extension staff, two State Agricultural Extension Management and Training Institutes (SAMETI's) have been identified, (1)Regional Centre (South) i.e., University of Agricultural Sciences(UAS), Bengaluru and (2) Regional Centre (North) i.e., UAS, Dharwad. The Extension officers of different development departments have been given orientation training, core team training, district level team training, Participatory Rural Appraisal (PRA) exercise and preparation of inventories. These trainings have been planned well in advance in the work shop at SAMETI's level wherein the training contents, modules and type of trainings are finalized. Further, trainings on implementation of on-farm demonstrations and farm schools are also being given importance at SAMETI's and District Level.

#### **6. Objectives:**

Under ATMA model of Agricultural Extension System, there is bottom -up model of planning, wherein plans are prepared at village, block, district and State levels, duly recognizing the constraints in improving the productivity of crops in particular, and economic status of farming community in general. As per these plans, efforts to bridge the gap between potential and actual yields are on. Extension activities under this system are group based and marketing avenues are effectively made use in case of cultivation of new/alternate crops.

ATMA has the main responsibility of all the technology dissemination activities at the district level. It has linkages with all the line Departments, Research organizations, non-governmental organizations and agencies associated with agricultural development in the districts, with substantial representation of farmer organizations and women farmers, research and extension units within the district such as Krishi Vignana Kendras, Zonal Research Stations, Departments of Agriculture, Horticulture, Sericulture, Fisheries, Animal Husbandry, Social Forestry and Marketing etc.

## 7. Other Aspects:

- a. Convergence of line department's programmes and operating on gap filling mode by formulating Strategic Research and Extension Plan (SREP) and annual State Extension Work Plans(SEWP)
- b. Programmes are prepared on gap filling mode by formulating SREP at the District Level and annual work plans at taluk and district level. Concerned departments like Agriculture, Horticulture, Animal Husbandry, Sericulture, Watershed development, Social forestry and Fisheries are converged in preparation of plans and the implementation of the programme.
- c. **Group Approach to Extension:** Farmers Interest Groups (FIG)/Commodity Interest Groups (CIG) have been formed as a part of social mobilization and to also undertake extension work through group approach.
- d. **Gender Concerns:** Farm women have been mobilized into groups, their capacity building and group extension programmes have been taken-up.
- e. **Sustainability of extension service:** All farmer based activities have been ensured without beneficiary contribution with respect to trainings, exposure visits, demonstrations and farmer group formations.

The scheme is being implemented with 60:40 grant sharing pattern between Government of India and Government of Karnataka.

**Progress under ATMA Scheme during 2016-17 is as under:**

**(Rs. in lakhs)**

| <b>OB</b> | <b>Grants released</b> | <b>Total Grants</b> | <b>Total Expenditure</b> | <b>Un Spent Balance</b> | <b>% of Progress</b> |
|-----------|------------------------|---------------------|--------------------------|-------------------------|----------------------|
| 692.09    | 2869.97                | 3562.06             | 2308.55                  | 1253.51                 | 64.80                |

**8. Evaluation Scope Purpose and Objectives:**

The scope of the study is spread over 15 districts and 93 talukas of Belgaum and Mysore divisions. It covers the various activities covered under the scheme. The purpose is to examine the implementation process and assess the achievements of physical and financial targets under the scheme and to provide the necessary feedback for improving the impact of the scheme.

**The objectives are:**

11. To evaluate the process formulation of strategic Research Extension plan and the preparation of district, block village plans.
12. To examine the allocations to different activities under the scheme as per the Guidelines.
13. To examine the extent of capacity building of Government and non Government functionaries.
14. To study the various farm information dissemination activities undertaken in the State.
15. To evaluate the various farmers oriented activities under the scheme across the divisions.
16. To assess the formation of various groups for social mobilization such as Farmer Interest Groups, Commodity Interest groups and Food security groups under the scheme and the inclusion of SC/ST/OBC and women members in them.
17. To evaluate the extent of achievement in Research-farmer-extension linkages.
18. To assess the impact of the activities on economic conditions and knowledge base of the farmers.
19. To know the extent of awareness created by ATMA institutions.

20. To examine the extent of participation of the farmers in different ATMA activities.

**9. Evaluation Questions and minimum expectations (Inclusive not exhaustive):**

1. Whether the plans prepared at village, block and district levels are used to bridge the gaps between potential and actual yields and for resource allocation at the State level while preparing the annual plans? If yes, to what extent and if not, why?
2. To what extent these plans are region / local specific recognizing the constraints in improving the productivity of crops in particular, and economic status of farming community in general.
3. SREP to be revisited after every five years. As per the concurrent evaluation report 2015-16 (CER). It is reported that this is not being done in any of the districts. What are the reasons for it and what measures are taken to do it?
4. Illustrate few best examples wherein convergence of all the departments is done in implementing the Strategic Research and Extension plans (SREPs) and Annual Work Plans for filling the gap between potential and actual yields.
5. Whether the prescribed process has been followed in preparation of Block Action Plan (BAP), District Action Plan (DAP) and Strategic Research and Extension Plans (SEWP)? If not, the reasons thereof may be detailed.
6.
  - a) At present the AO's ( Agri. Officers), AAO's (Asst. Agri. Officers) and ATM's (Assistant Technology Managers) in RSK(Raita Samparka Kendra) at Hobli level are handling the tasks of information and communication to the farmers as that during the green revolution the agricultural extension through T&V system (training and visit system). To what extent they are able to communicate to the farmers about new Technology? Whether the system is farmer friendly and is able to create any significant impact?
  - b) What is the extent of capacity building and Human resource development under the scheme during the current year? What is the deployment of manpower in implementation process at various levels as against targets?
7. How many Farmers Interest Groups (FIGs) and Commodity Interest Groups (CIGs) have been formed under ATMA as a part of social mobilization group approach? Is this effort yielding good results in extension work? Any best practices are observed with regard to this?



8. However many food security groups are formed? Whether any food security hubs are developed?
9. Whether the physical and financial targets set and approved by District Level ATMA Steering Committees (DLASC) for each of the cafeteria activities as per Annexure of this ToR have been met? If yes, to what extent? If not, why not?
10. Whether the process prescribed has been followed in implementation? If not, what are the reasons?
11. What is the average delay in starting implementation and average time over run in completing implementation?
12. How many Farmers Groups have been benefitted under each sector viz Agriculture, Horticulture, Animal Husbandry, Fisheries, Forestry etc. vis-à-vis the category of farmers benefitted viz SC/ST/OBC/Small Farmers/Marginal Farmers/Large Farmers and Women.
13. Whether the training programmes are designed to suit the requirements of the farmers and cropping pattern of the region?
14. How many farm school/ demonstration programmes are conducted? What is the level of participation of the farmers? Are there differences across the divisions?
15. The additional income generated by the farmers benefitted as a result of implemented activities may be estimated/computed and detailed?
16. What is the extent of awareness created by ATMA institutions? It is reported very low in CER? Are there any differences across the divisions? what needs to be done for increasing awareness?
17. Whether the resource allocation percentages for NGOs, ST/SC/Women farmers and beneficiary oriented activities like training, exposure visits, demonstrations, capacity building of farmers groups as fixed in the guidelines have been followed? If not, where are and what are the reasons for deviations?
18. Whether the resource allocation for different activities under the scheme is as per the guidelines at various levels? If not state the reasons.
19. The evaluation report has reported very low participation of NGOs/What are the reasons for the same? Are there any differences across the regions?
20. Whether the NGOs have implemented the assigned tasks in time and as per ATMA guidelines? If not, state the reasons thereof.

21. The assessment of functioning of the following institutions as compared to the mandate, including monitoring, meetings and physical and financial achievement to be reviewed.

- a. District Level ATMA Steering Committees - it is reported that these Committees do not meet as per the norms set. What measures are adopted to conduct regular meetings?
- b. Taluk Level ATMA Implementation Committees- it is reported that these Committees do not meet as per the norms set. What measures are adopted to conduct regular meetings?
- c. State Agricultural Extension Management and Training Institutes (SAMETI), Regional Centres South and North.
- d. Krishi Vignyana Kendra (KVK), State Agriculture Universities (SAU)s and other Research institutions.
- e. Line Departments and IDWGs (Inter-Departmental Working Groups).
- f. Women's Representatives in different Committees.
- g. Farmer's representatives in different committees at:-
  - i. Block level- Block Farmers Advisory Committees (BFAC), and,
  - ii. District level- District Farmers Advisory Committee(DFAC),

which are working as Advisory Committees for implementation of the scheme and preparation of SREP and action plans. and give recommendations, if any, for improving their functioning and implementation.

22. Please assess the extent of the project impact on the following lines/points.

- A. **Project impact in respect of** the following across the divisions/districts
- a. Number of Farmers benefitted
  - b. Number of Women/SC/ST/OBC farmers benefitted.
  - c. Introduction of new crops/new farm activities and adoption of new and /or sustainable technologies.
  - d. Coverage of activities in allied sector
  - e. Assistance in marketing of agriculture produces.

**B. Project impact in reforming the extension system in respect of the following processes:**

- a. Formation of commodity based farmer interest groups.
  - b. Bottom up planning
  - c. Decentralized, multiagency and flexible decision making and implementation.
  - d. Farmer to farmer extension.
  - e. Research-Extension-Farmer linkages.
23. What has been the level of involvement of different line departments and Research Organizations/ FOs in implementing the scheme? Can some suggestions be made for improving the weak areas, if found?
24. The evaluation report for 2015-16 indicates very low involvement of other Departments in the ATMA activities. What are the reasons for the same? What measures have been taken to strengthen their participation? Are there any differences across the divisions?
25. Whether the grants are released in time to implementing agencies? If not, why not?
26. Has the audit of the ATMA accounts been completed for the year 2016-17 by Chartered Accountants and the same is sent to Government of India? If not, reasons thereof.
27. How many success stories under different ATMA activities have been submitted to Government of India as per ATMA Guidelines? How many success stories have been published at the district level as per Guidelines?
28. Whether quarterly District Level ATMA Steering Committee and District Farmers Advisory Committee Meetings have been/are conducted as per guidelines? If not, reasons thereof.
29. Whether the quarterly Taluk Level ATMA Steering Committee and Taluk Farmers Advisory Committee Meetings have been/are conducted as per guidelines? If not, reasons thereof.
30. Whether awards have been/are being given to farmers and groups under ATMA at State, District and Taluk levels as per guidelines? If not, reasons thereof.
31. Is there any duplication of effort and work or linkages in case of Raita Samparka Kendras (RSK), extension activities of Agriculture Universities and ATMA? If yes, what suggestions are there to set right the duplication and strengthen the linkages?
32. Suggestions for overall improvement of the scheme through FGDs.

**10. Evaluation Methodology and Sampling:**

- a. The field work should cover all the districts of Belgaum and Mysore Revenue Divisions (16 Districts and 100 Taluks).
- b. At least one taluk should be selected by *simple random sampling* method as sample taluk in each district. The sample will thus comprise of at least 14 taluks and each district will be represented. Simple Random Sampling without replacement to be adopted so that as many as possible talukas will be covered under evaluation. The talukas covered in earlier studies should not be included in the sample.
- c. In the selected taluks, at least one sub component each from out of State level activities, District level activities and all taluk level activities (given in the cafeteria of activities as per Annexure to the ToR) should be covered for field visits, personal interviews and focused group discussions. It should be ensured that in the sample, no State and District level activity should go unevaluated i.e. a State or District level activity should have been evaluated in at least one of the taluks forming the sample.
- d. All the predominant farming systems in the district should be covered.
- e. One of the villages adjacent to the selected taluk in each of the selected districts where none of the scheme activities have been implemented will be selected as a control village.
- f. The analysis to be made at division level and also in a comparative framework.
- g. FGDs to be conducted to know farmers requirements for inclusion in training programmes and other activities.
- h. Case Studies / best practices if any to be included in the analysis.
- i. Simple statistical techniques to be used for analysis.

**11. Deliverables time Schedule:**

An inception report containing a list of documents reviewed, persons contacted/consulted, list of sampling details, proposed data collection, evaluation questions and sub questions and processing methods should be submitted.

The State department of Agriculture will assist the evaluator in obtaining requisite information from the offices concerned in the State.

**12. Duration and time schedule for the study:**

The total duration of the concurrent evaluation study is about **Nine months time.**

- a. Draft Monitoring and Evaluation report should be delivered with adequate time to allow the agriculture department for consultation on findings and recommendations.
- b. Quarterly monitoring report(QMR) for each quarter should be submitted within one month of the end of the quarter, during a total **work period of Nine months.**
- c. Final report should contain front matter, programme description, evaluation purpose, methodology, findings, executive summary, recommendations and related Annexures.
- d. A meeting with presentation of the key findings at each level before proceeding to the next level shall be organized and any clarification/changes in methodology followed by awardees is made as per the requirement of the client.
- e. One interim draft presentation report should be submitted by 31<sup>st</sup> December 2017.
- f. Finalization of Draft Report should be done by 31<sup>st</sup> January 2018.
- g. Draft Report to be presented before 28<sup>th</sup> February 2018,
- h. Final Report to be submitted before the end of March 2018.

**13. Qualities Expected from the Evaluation Report:**

The following are the points, only inclusive and not exhaustive, which need to be mandatorily followed in the preparation of evaluation report:-

- a) By the very look of the evaluation report it should be evident that the study is that of Agriculture department of the Government of Karnataka, and Karnataka Evaluation Authority (KEA) which has been done by the Consultant. It should not intend to convey that the study was the initiative and work of the Consultant, merely financed by the Agriculture department of the Government of Karnataka, and Karnataka Evaluation Authority (KEA).
- b) Evaluation is a serious professional task and its presentation should exhibit it accordingly. Please refrain from using glossy, super smooth paper for the entire volume overloaded with photographs, graphics and data in multicolor fancy fonts and styles.

- c) The Terms of Reference (ToR) of the study should form the first Appendix or Addenda of the report.
- d) The results should first correspond to the ToR. In the results chapter, each question of the ToR should be answered, and if possible, put up in a match the pair's kind of table, or equivalent. It is only after all questions framed in the ToR that is answered, that results over and above these be detailed.
- e) In the matter of recommendations, the number of recommendations is no measure of the quality of evaluation. Evaluation has to be done with a purpose to be practicable to implement the recommendations. The practicable recommendations should not be lost in the population maze of general recommendations. It is desirable to make recommendations in the report as follows:-

**(A) Short Term practicable recommendations**

These may not be more than five in number. These should be such that it can be acted upon without major policy changes and expenditure, and within say a year or so.

**(B) Long Term practicable recommendations**

There may not be more than ten in number. These should be such that can be implemented in the next four to five financial years, or with sizeable expenditure, or both but does not involve policy changes.

**(C) Recommendations requiring change in policy**

There are those which will need lot of time, resources and procedure to implement.

**14. Cost and schedule of Budget releases:**

Output based budget release will be as follows-

The **First installment** of Consultation fee amounting to 30% of the total fee shall be payable **as advance** to the Consultant after the approval of the inception report, but only on execution of a bank guarantee of a scheduled nationalized bank valid for a period of at least 12 months from the date of issuance of advance.

- a. The **Second installment** of Consultation fee amounting to 50% of the total fee shall be payable to the Consultant after the approval of the Draft report.
- b. The **Third and final instalment** of Consultation fee amounting to 20% of the total fee shall be payable to the Consultant after the receipt of the hard and soft copies of the final report in such format and number as prescribed in the agreement, along with all original

documents containing primary and secondary data, processed data outputs, study report and soft copies of all literature used to the final report.

Tax will be deducted from each payment as per rates in force. In addition, the evaluator is expected to pay statutory taxes at their end.

#### **15. Minimum Qualifications of the consultant:**

**Consultants should have and provide details of evaluation team members having technical qualifications/capability as below-**

- i) Post Graduates in Agriculture and allied sectors having knowledge of agricultural Extension and rural Development with ability to design and lead the concurrent evaluation.
- ii) Social scientists with experience in applying qualitative and quantitative evaluation methods in the field of Agricultural and Rural Development Technology, and,
- iii) Research Assistants with good data processing skills

**And in such numbers that the evaluation is completed within the scheduled time prescribed by the ToR. Consultants not having these number and kind of personnel will not be considered as competent for evaluation.**

#### **16. Providing oversight:**

Karnataka Evaluation Authority will provide the funds and oversight for the study. All technical aspects of the study are subject to their approval.

#### **17. Contact persons:**

1. Dr. N. Basavaraj, State Co ordinator-ATMA(9986804933/8277929875), Department of Agriculture, Sheshadri Road, Bengaluru-1.
2. Mr. B.Y.Srinivas, Dir. of Agriculture, Department of Agriculture, Sheshadri Road, Bengaluru-

**Annexure –II****SUCCESS STORY – PROGRESSIVE FARM WOMAN**

| <b>Sl. No.</b> | <b>Components</b>  | <b>Details</b>   |   |
|----------------|--|--|---|
| 1.             | Name of the Farmer   | Smt Kavita Umashankar Mishra   |   |
| 2.             | Address:   |  |   |
|                | Village  | Kavital  |   |
|                | Post   | Kavital, Manavi Taluka   |   |
|                | District   | Raichur  |   |
|                | State  | Karnataka  |   |
| 3.             | Contact details:   | 9481548871/ 8861789787   |   |
| 4.             | Details of the farm (Size, Location, Water availability, etc.)   | 12 ha out of which 6 ha is under canal irrigation  |   |
| 5.             | Membership in Self-Help Group Producers, Cooperative/Company, Cooperative Society etc. (Give details)                              | Member of BFAC, DFAC and Sri lata gumpu  |   |
| 6.             | Names of the Central Sector / State Scheme utilized by the farmers and the period  | ATMA/NHM/other State Department Schemes  |   |
| 7.             | Technologies / Good Agricultural Practices / Facilities / Benefits obtained with details   | Integrated Farming System, Organic Farming   |   |
| 8.             | Details of result obtained due to the adoption of technologies (Season-wise Crops grown, techniques adopted, results achieved etc) | <b>Improved/Present Production Technologies</b>  | <b>Traditional/Past Production Practices</b>                  |
|                | i Production (q/ha)  | <b>Details attached as per table-1</b>   | <b>Usage of more chemical fertilizers and pesticides</b>      |
|                | ii Cost of Production per hectare (Rs.)  | <b>Details attached</b>  |   |
|                | iii Net profit per hectare (Rs.)   | <b>Details attached</b>  |   |
|                | iv Number of Sprays  | <b>4 sprays for paddy</b>  | <b>9 sprays for paddy</b>                                     |
|                | v Cost of Sprays (Rs.)   | <b>8000</b>  | <b>18000</b>  |
|                | vi Natural Resources saved / conserved like Soil, Water etc.   | <b>Soil and water management</b>   | <b>flooding</b>   |
|                | vii Product, Quality Improvement   | <b>Soil enrichment, Quality of fruit improved, fruit setting increased, reduced pests &amp; diseases</b> | <b>More flower drop in fruit crops and Less fruit setting</b> |
| 9.             | Marketing Strategy - Access to market  |  |   |



|     |   |  |
|-----|---|--|
|     | (through Private, Cooperative, Contract farming etc.) | APMC Yard  |
|     | Export Market (details of exports made)               | Seedlings are marketed to UP, Haryana  |
| 10. | Factors contributing to success                       | Awareness created in various sectors by development Departments and growing multiple crops |
| 11. | Any other relevant information                        | Resource person to the Department, IARI, New-Delhi, ICRISAT, Radio talk and Doordarshan    |

**Details of crops : Total area 12 ha**

| Sl. No.      | Crop          | Area (ha)/Tree No | Production (q/total area)    | Gross Income (Rs.) | Cost of production (Rs.) | Net profit (Rs.) |
|--------------|---------------|-------------------|------------------------------|--------------------|--------------------------|------------------|
| 1            | Mango         | 222 Nos           | 95                           | 247000             | 50000                    | 197000           |
| 2            | Lime          | 53 Nos            | 11.5                         | 126500             | 40000                    | 86000            |
| 3            | Pomegranatte  | 2400 Nos          | 170                          | 1768000            | 800000                   | 968000           |
| 4            | Mandrin       | 480 Nos           | 220                          | 308000             | 50000                    | 258000           |
| 5            | Gooseberry    | 150 Nos           | Nil                          | 0                  | 25000                    | 0                |
| 6            | Custurd apple | 250 Nos           | 15                           | 13500              | 2000                     | 11500            |
| 7            | Black Jamun   | 20 Nos            | 1.4                          | 16800              | 1000                     | 15800            |
| 8            | Coconut       | 65 Nos            | 9975 Nuts                    | 199500             | 55000                    | 144500           |
| 9            | Teak          | 1500 Nos          | Growing stage                | Nil                |                          |                  |
| 10           | Sandalwood    | 1400 Nos          | 2.5 q seeds ,15000 seedlings | 700000             | 200000                   | 500000           |
| 11           | Chickoo       | 20 Nos            | 2.5                          | 6000               | 1500                     | 4500             |
| 12           | Bengalgram    | 2.5               | 27                           | 125550             | 40000                    | 85550            |
| 13           | Sorghum       | 4                 | 40                           | 132000             | 50000                    | 82000            |
| 14           | Onion         | 0.8               | 90                           | 60300              | 30000                    | 30300            |
| 15           | Maize         | 2.5               | 40                           | 72000              | 30000                    | 42000            |
| 16           | Paddy         | 2.8               | 210                          | 364000             | 150000                   | 214000           |
|              | Cows          | 9                 | 3600 lt/yr                   | self               |                          |                  |
| <b>Total</b> |               |                   |                              |                    |                          | <b>26,39,150</b> |



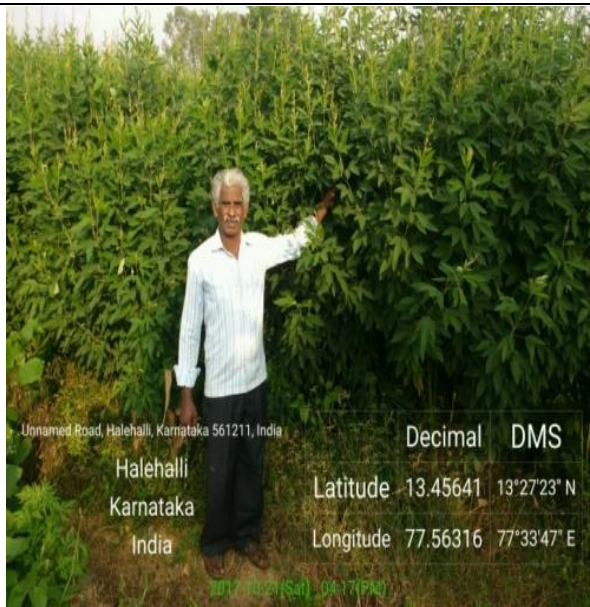

**Greece scientist Mr. Konstantios Tsioulos visit**



**Mixed Crop**



**Sandalwood Seedlings (Nursery)**

|   |  |
|---|--|
| Name of the Farmer  | H.N.Manjunath  |
| Address:  | S/o Malleshappa  |
| Village   | Halehalli  |
| Post  | Halehalli  |
| District  | Chikkaballapura  |
| State   | Karnataka  |
| Technologies / Good Agricultural Practices / Facilities/ Benefit obtained with details. | Redgram dibbling method at wider spacing (6*3 feet) and nipping at 45 and 75 days  |
| Yield(per ha)   | 26 Qtls  |
| Factors contributing to success   | Sowing time : Early sowing during the month of May helps in good crop growth<br>Wider spacing:- low pest and diseases due to good aeration<br>Nipping : Nipping at 45 days increased numbers of branches per plant |
|      |    |



**MECHANISATION IN PADDY**

| Sl. No. | Components  | Details   |  |
|---------|---|---|--|
| 1       | Name of the Farmer  | Chandrashekar/Ramaiah                             |  |
| 2       | Address:  |   |  |
|         | Village   | Malali  |  |
|         | Post  | Melinabesige                                      |  |
|         | Taluk   | Hosanagara  |  |
|         | District  | Shimoga   |  |
|         | State   | Karnataka   |  |
| 3       | Contact Details:  | 9900257918  |  |
| 4       | Details of the Farm (Size, Location, Water Availability etc.)   | 12 Acre, Farm pond Construction                   |  |
| 5       | Membership in Self-help Group Producers, Cooperative/Company, Cooperative Society etc. (Give details)                                   | Kalur Co-operative society                        |  |
| 6       | Names of the Central Sector/State Scheme utilized by the farmers and the period   | Central and State Scheme                          |  |
| 7       | Technologies/Good Agricultural Practices/Facilities/Benefits obtained with details  | Mechanization in Paddy by using Power cono weeder |  |
| 8       | Details of the result obtained due to the adoption of technologies (Season-wise crops grown, techniques adopted, results achieved etc.) | <b>Improved/Present Production Technologies.</b>  | <b>Traditional/Past Production Practices</b> |
|         | i Paddy Production (q/ha)   | 75 q/ha   | 39 q/ha                                      |
|         | ii Cost of Production per hectare(Rs)   | 25625/-   | 29950/-                                      |
|         | iii Net profit per hectare (Rs.)  | 98575/-   | 32950/-                                      |
|         | iv Number of Sprays   | 02  | 01   |
|         | v Cost of Sprays (Rs)   | 1200/-  | 950/-  |
|         | vi Natural Resources saved/conserved like Soil, Water etc.  | Soil & moisture conservation                      |  |

|    |  |                              |   |  |
|----|--|------------------------------|---|--|
|    | vii  | Product, Quality Improvement | Use of Dhiancha as green manure   | Glyrisidiya crop as Green leaf manure                      |
| 9  | Marketing Strategy –Access to market (through Private, Cooperative, Contract farming etc.) |                              | Through private   | Through private  |
|    | Export Market (Details of exports made)  |                              |   |  |
| 10 | Factors contributing to success  |                              | Manuring, water conservation structures like farm pond, Bunding etc.  | Use of Azolla, Glyrisidiya, open wells for irrigation etc. |
| 11 | Any other relevant information   |                              | Resource person in the village. Additionally he earns Rs. 2 Lakhs from the sale of vermicompost and green manure crops. |  |



**Annexure -III****District wise yield of Agricultural commodities & farmers income during 2017-18****(Results of Demonstrations conducted) Kalaburgi Rd****Fin: In Rs.**

| Sl. No. | District | Sector | Crop         | Variety | No. of demos | Area (ac) | Date of                          |                               | Inputs                          | Average cost of Cultivation (Rs) | Average BM yield Q/Ac | Average demo yield A/AC | Change | Percentage of Change | Rate per Qtl | Average gross income | Average net income | Additional Income |
|---------|----------|--------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------|---------------------------------|----------------------------------|-----------------------|-------------------------|--------|----------------------|--------------|----------------------|--------------------|-------------------|
|         |          |        |              |         |              |           | Sowing                           | Harvesting                    |                                 |                                  |                       |                         |        |                      |              |                      |                    |                   |
| 1       | Bellary  | Agri   | 1) Maize     | Hybrid  | 2            | 1         | 10.07.2017                       | 17-Nov                        | Seeds + Ferti + Micro nutrients | 10000                            | 18                    | 20                      | 2      | 11                   | 1600         | 32000                | 22000              | 3200              |
|         |          | Agri   | 2) Navane    | Local   | 1            | 1         | Jul-17                           | 17-Oct                        | Seeds + Ferti + Micro nutrients | 4000                             | 5 to 6                | 8                       | 3      | 45                   | 6000         | 48000                | 44000              | 15000             |
|         |          | Agri   | 3) Groundnut | TMV - 2 | 5            | 1         | Aug-17                           | 17-Dec                        | Seeds + Ferti + Micro nutrients | 9000                             | 6 to 7                | 8                       | 1      | 14                   | 4000         | 32000                | 23000              | 4000              |
| 2       | Koppal   | Agri   | 4) Groundnut | TMV - 2 | 7            | 1         | 22.12.17<br>15.01.18<br>07.01.18 | 15/4/18<br>25/4/18<br>30/4/18 | Seeds + Ferti + Micro nutrients | 13000                            | 4 to 5                | 4.28                    | 0.28   | 7                    | 4000         | 17120                | 4120               | 1000              |

|   |           |       |               |                     |    |   |                      |                      |  |        |         |               |        |       |      |        |        |       |
|---|-----------|-------|---------------|---------------------|----|---|----------------------|----------------------|--|--------|---------|---------------|--------|-------|------|--------|--------|-------|
|   |           | Agri  | Paddy         | BPT 5204 + GNV 1809 | 5  | 1 | 15/6/17<br>30/6/17   | 10/10/17<br>15/12/17 | Bio ferti + Gypsum                       | 24,200 | 30      | 33            | 3      | 10    |      | 50,420 | 26,220 |       |
|   |           | Agri  | Minor Millets | JNK 101             | 3  | 1 | 10/7/17<br>20/12/17  | 26/10/17<br>30/3/18  | Bio culture                              | 8000   | 5.00    | 2 tons fodder | -      | -     | -    | 12,000 | 4,000  | -     |
| 3 | Yadgir    | Agri  | 5) Redgram    | IS-3R               | 7  | 1 | 15.06.17             | 17-Dec               | Neem oil, vermi compost, Bio-fertilizers | 4000   | 3 to 4  | 5 to 6        | 2      | 50    | 4500 | 22500  | 18500  | 4500  |
| 4 | Bidar     | Agri  | 6) Bengalgram | JG - 11             | 4  | 1 | 05.10.17             | 15/1/18              | Seeds, Micro nutrients                   | 4000   | 6 to 7  | 7.125         | 1.125  | 18.75 | 4000 | 28500  | 24500  | 4500  |
| 5 | Kalaburgi | Agri  | 7) Bengalgram | GB M-2              | 7  | 1 | 26.09.17<br>28.09.17 | 30/12/18<br>13/1/18  | Seeds, Micro nutrients                   | 6500   | 6 to 7  | 8             | 1 to 2 | 14    | 4200 | 33600  | 27100  | 4200  |
| 6 | Shimoga   | Agri  | Paddy         | IET 1001            | 13 | 1 | 7/17                 | 21/12/17             | FIM+ Bailer mission + diathene           | 10500  | 9.00    | 10.00         | 1.00   | 11    | 1600 | 16000  | 5500   | 1600  |
| 7 | Tumkur    | Harti | Tomato        | NS8 15              | 1  | 1 | 15/7/17              | 8/10/17              | -  | 43000  | 18 tons | 22 tons       | 4      | 18    | 4090 | 90000  | 47000  | 16380 |

|   |           |       |               |           |    |   |             |                   |                            |          |            |              |     |     |              |        |       |       |
|---|-----------|-------|---------------|-----------|----|---|-------------|-------------------|----------------------------|----------|------------|--------------|-----|-----|--------------|--------|-------|-------|
|   | Tumkur    | Harti | Brinjal       | Arkanidhi | 1  | 1 | 1/7/17      | 112/9/17          | -                          | 59000    | 15 tons    | 25 tons      | 10  | 67  | 4800         | 120000 | 61000 | 48000 |
|   | Tumkur    | Seri  | Mulberry      | V-1       | 4  | 1 | 12/6/2/6/17 | 26/2/18<br>3/3/18 | -                          | 58000    | 19.75 tons | 71 kg        | -   | -   | .            | 160000 | 87775 | .     |
|   | Tumkur    | Agri  | Little Millet | Local     | 1  | 1 | 5/6/17      | 3/9/17            | Seeds, jinc-NPK            | 2000     | 3.00       | 3 qtl fodder | -   | -   | .            | 7500   | 5500  | .     |
| 8 | Bengaluru | Agri  | Paddy         | -         | 43 | 1 | 7/17        | 10/17             | -                          | 18000    | 40         | 43           | 3   | 7.5 | 1650         | 70950  | 52950 | 4950  |
| 9 | Kolar     | Agri  | Ragi          | MR-6      | 7  | 1 | 10/7/17     | 11/11/17          | Seeds                      | 4000     | -          | 10.12        | -   | -   | Domestic Use |        |       |       |
|   | Kolar     | Agri  | Saame         | Sahaja    | 6  | 1 | 3/8/17      | 20/10/17          | Seeds                      | 600-1000 | NF         | 2.7          | NF  | NF  | Domestic Use |        |       |       |
|   | Kolar     | Agri  | Saame         | OLM 203   | 12 | 1 | 10/7/17     | 20/10/17          | Gypsum, zinc, boran, seeds | 3745     | 4.00       | 5.2          | 1.2 | 30  | -            | 12480  | 8480  | 2625  |
|   | Kolar     | Agri  | Red gram      | BRG-1     | 4  | 1 | 27/5/17     | 10/11/17          | Seeds, MN                  | 10940    | 5          | 6            | 1   | 18  |              | 22800  | 11860 | 4100  |



|    |                 |      |                     |                  |    |          |                              |                                  |                                      |      |       |       |       |        |      |       |       |       |
|----|-----------------|------|---------------------|------------------|----|----------|------------------------------|----------------------------------|--------------------------------------|------|-------|-------|-------|--------|------|-------|-------|-------|
|    | Yadgir          | Agri | G. nutt             | k-9<br>TMV<br>-2 | 7  | 1        | 5/10/17<br>10/10/17          | 6/2/18<br>29/1/18                | DAP,<br>ZINC,<br>Compl<br>ex,PP<br>C | 9952 | 7.186 | 8.220 | 1.034 | 14.39  | -    | 39139 | 29187 | 4923  |
|    | Yadgir          | Agri | Bengal<br>Gram      | JG-<br>11        | 2  | 1        | 5/10/17<br>3/10/17           | 30/1/18<br>21/1/18               | Seeds,<br>Zinc,<br>PBC               | 8100 | 5.75  | 6.27  | 0.52  | 9.00   | -    | 30700 | 22600 | 2546  |
| 10 | Chitra<br>durga | Agri | 1.<br>Navane        | HMT<br>1001      | 58 | 1.0<br>0 | 12/8/17<br>9/8/17<br>10/8/17 | 22/11/17<br>25/11/17<br>28/11/17 | DBT                                  | 7042 | 2.77  | 3.52  | 0.79  | 28.52  | 2975 | 10472 | 3440  | 2241  |
|    |                 | Agri | 2. Saf<br>flower    | A-1              | 1  | 1.0<br>0 | 31/9/17                      | 1/12                             | DBT                                  | 6000 | 3.50  | 6.00  | 2.50  | 71.00  | 2200 | 13200 | 7200  | 5500  |
|    |                 | Agri | 3.<br>Ground<br>nut | TMV<br>-2        | 4  | 1.0<br>0 | II week<br>Jul 17            | IV week<br>Dec 17                | DBT                                  | 6000 | 3.00  | 2.00  | -1.00 | -17.00 | 2200 | 4400  | -1600 | 1000  |
|    |                 | Agri | 4.<br>Ground<br>nut | TMV<br>-2        | 2  | 1.0<br>0 | II week<br>Jul 17            | IV week<br>Dec 17                | DBT                                  | 6000 | 3.00  | 6.50  | 3.50  | 117    | 2200 | 14300 | 8300  | 7700  |
|    |                 | Agri | 5. Ragi             | GPU<br>-28       | 2  | 1.0<br>0 | II week<br>Jul 17            | IV week<br>Dec 17                | DBT                                  | 6000 | 3.00  | 2.60  | -0.40 | -13    | 2200 | 5720  | -2800 | -2200 |
|    |                 | Agri | 6.<br>Cotton        | BT               | 1  | 1.0<br>0 | II week<br>Jul 17            | IV week<br>Dec 17                | DBT                                  | 6000 | 2.50  | 3.00  | 0.50  | 20     | 2200 | 6600  | 600   | -5500 |

|    |            |                     |               |           |    |          |                   |                   |     |       |      |        |       |      |      |       |       |       |
|----|------------|---------------------|---------------|-----------|----|----------|-------------------|-------------------|-----|-------|------|--------|-------|------|------|-------|-------|-------|
|    |            | Agri                | 7. Tur        | BRG<br>-2 | 1  | 1.0<br>0 | II week<br>Jul 17 | IV week<br>Dec 17 | DBT | 6000  | 2.50 | 3.00   | 0.50  | 20   | 4600 | 13800 | 7800  | 2300  |
|    |            | Agri                | 8. Korale     | Loca<br>1 | 5  | 1.0<br>0 | 15/8/17           | 15/11/17          | DBT | 8500  | 2.50 | 3.00   | 2.50  | 100  | 4000 | 20000 | 11500 | 10000 |
|    |            | Agri                | 9. Saame      | Loca<br>1 | 1  | 1.0<br>0 | 11/8/17           | 21/11/17          | DBT | 8500  | 2.50 | 5.00   | 2.50  | 100  | 4000 | 20000 | 11500 | 10000 |
| 11 | Raichur    | Agri                | 10. Groundnut | TMV<br>-2 | 15 | 1.0<br>0 | July 17           | Oct 17            | DBT | 15000 | 9.75 | 10.715 | 0.965 | 9.90 | 4400 | 47146 | 32146 | 4246  |
| 12 | Davanagere | Demos not organized |               |           |    |          |                   |                   |     |       |      |        |       |      |      |       |       |       |

**Note: With regards to crop yields of demo plots it has been observed in some of the cases the crop yields are varying and they range from 10-50% and above increase yield of crops. Inorder to increase the efficiency and accuracy of data of the project it is suggested that the authenticity of yield increased should be vetted by a competent authority**

**Annexure – IV****Analysis of results district wise****Part II - ATMA 2017-18**

| Sl. No. | Activities   | unit | Revenue Division - Bengaluru |               |             |            |         |           |         |         |
|---------|--|------|------------------------------|---------------|-------------|------------|---------|-----------|---------|---------|
|         |  |      | Bengaluru                    | Chickballapur | Chitradurga | Davanagere | Kolar   | Ramanagar | Shimoga | Tumkur  |
| 1       | Farmer oriented activities                                 | %    | 74(G)                        | 93(Ex)        | 81(Ex)      | 55(S)      | 77(G)   | 44(S)     | 78(G)   | 59(S)   |
| 2       | Farmer Including FFS Information dissemination             | %    | 312(Ex)                      | 57(S)         | 95(EX)      | 27(Av)     | 33(Av)  | 72(G)     | 34(Av)  | 7(Av)   |
| 3       | Agricultural Technology Refinement, validation & adoptions | %    | 101(Ex)                      | 83(Ex)        | 61(G)       | 105(Ex)    | 46(S)   | 6(Av)     | 70(G)   | 40(Av)  |
| 4       | Administrative Expenditure                                 | %    | 72 (G)                       | 80(G)         | 75 (G)      | 68 (G)     | 72 (G)  | 99(E)     | 87(E)   | 87 (E)  |
|         | a) ATMA like institutions                                  | %    | 36(Av)                       | 78(G)         | 30(Av)      | 25(Av)     | 12(Av)  | 4(Av)     | 24(Av)  | 15(Av)  |
|         | b) Man power Component                                     | %    | 76(G)                        | 78(G)         | 80(S)       | 72(G)      | 78(G)   | 110(Ex)   | 91(Ex)  | 91(Ex)  |
| 5       | Other innovative activities                                | %    | 10(Av)                       | 79(G)         | 39(Av)      | 132(Ex)    | 5(Av)   | 43(S)     | 12(Av)  | nil     |
|         | District Total (average)                                   | %    | 87(Ex)                       | 81(Ex)        | 75(G)       | 67(G)      | 66(G)   | 76(G)     | 77(G)   | 70(G)   |
| 6       | Training of Farmers  | %    | 38(Av)                       | 76(G)         | 63(G)       | 81(Ex)     | 79(G)   | 29(Av)    | 48(S)   | 42(S)   |
| 7       | Exposure visits of farmers                                 | %    | 70(G)                        | 114(Ex)       | 238(Ex)     | 150(Ex)    | 159(Ex) | 144(Ex)   | 124(Ex) | 281(Ex) |
| 8       | Capacity building oooooof farmers                          | %    | 29(Av)                       | 100(Ex)       | 33(Av)      | 31(Av)     | 40(Av)  | 29(Av)    | 89(Ex)  | 29(Av)  |
| 9       | Raita Sakthi gumpu(Seded money)                            | %    | 75(G)                        | 100(Ex)       | 23(Av)      | 3(Av)      | 120(Ex) | 25(Av)    | 86(Ex)  | nil     |
| 10      | Food Security group (Seed money)                           | %    | 38(Av)                       | 92(Ex)        | 25(Av)      | nil        | 90(Ex)  | 38(Av)    | 100(Ex) | nil     |

|    |   |     |         |         |         |         |         |         |         |        |
|----|---|-----|---------|---------|---------|---------|---------|---------|---------|--------|
| 11 | District level exhibition                   | %   | nil     | 100(Ex) | 300(Ex) | 85(Ex)  | 73(G)   | 100(Ex) | 50(S)   | 16(Av) |
| 12 | REF - Linkages                              | %   | nil     | 67(G)   | 25(Av)  | 10(Av)  | nil     | 8(Av)   | 17(Av)  | nil    |
| 13 | Organizing Kisan goshties                   | %   | 117(Ex) | 93(Ex)  | 67(G)   | 144(Ex) | nil     | 25(Av)  | 88(Ex)  | 50(S)  |
| 14 | Farm field school                           | %   | 50(S)   | 93(Ex)  | 24(Av)  | nil     | nil     | 19(Av)  | 67(G)   | nil    |
| 15 | Farmer awards                               | %   | 43(S)   | 117(Ex) | 67(G)   | 33(Av)  | 92(Ex)  | 25(Av)  | 103(Ex) | nil    |
| 16 | Incentives & Rewards to farmer groups       | %   | nil     | nil     | nil     | 125(Ex) | nil     | nil     | nil     | nil    |
| 17 | Organising demonstrations                   | %   | 129(Ex) | 98(Ex)  | 86(Ex)  | nil     | 162(Ex) | 22(Av)  | 120(Ex) | 13(Av) |
| 18 | Total number of farmers benefitted          | No. | 3976    | 4067    | 6600    | 5884    | 4647    | 1825    | 8958    | 10043  |
| 19 | SC farmers benefitted                       | %   | 15      | 14      | 22      | 11      | 15      | 14      | 16      | 18     |
| 20 | ST farmers benefitted                       | %   | 10      | 13      | 17      | 8       | 14      | 1       | 9       | 8      |
| 21 | Women farmers benefitted                    | %   | 20      | 40      | 37      | 24      | 37      | 26      | 32      | 30     |
| 22 | Success stories prepared / broughtout       | No. | 4       | 9       | 3       | 9       | 11      | 20      | 19      | 2      |
| 23 | District level committee meetings conducted |     |         |         |         |         |         |         |         |        |
|    | a) DFAC                                     | No. | 1       | 2       | 2       | 1       | 1       | 2       | 2       | 2      |
|    | b) ATMA GB                                  | No. | 1       | 3       | 1       | 2       | 1       | 2       | 2       | 3      |
|    | Excellent                                   |     | 5       | 12      | 5       | 7       | 5       | 3       | 8       | 2      |
|    | Good  |     | 4       | 5       | 6       | 2       | 6       | 2       | 3       | 2      |
|    | Satisfactory                                |     | 2       | 1       |         | 1       | 1       | 2       | 3       | 2      |
|    | Average                                     |     | 5       |         | 7       | 6       | 3       | 11      | 4       | 6      |

| Sl. No. | Activities   | unit | Revenue Division - Kalaburgi |        |           |         |          |         |
|---------|--|------|------------------------------|--------|-----------|---------|----------|---------|
|         |  |      | Bellary                      | Bidar  | Kalaburgi | Koppal  | Raichur  | Yadagir |
| 1       | Farmer oriented activities                                 | %    | 89(Ex)                       | 44(S)  | 76(G)     | 46(S)   | 61(G)    | 69(G)   |
| 2       | Farmer Including FFS Information dissemination             | %    | 83(Ex)                       | 22(Av) | 54(S)     | 36(Av)  | 92(Ex)   | 62(G)   |
| 3       | Agricultural Technology Refinement, validation & adoptions | %    | 100(Ex)                      | 39(Av) | 87(Ex)    | 66(G)   | 81(Ex)   | 68(G)   |
| 4       | Administrative Expenditure                                 | %    | 69(G)                        | 65(G)  | 49 (S)    | 89(E)   | 96(E)    | 55 (S)  |
|         | a) ATMA like institutions                                  | %    | 33(Av)                       | 6(Av)  | 15(Av)    | 38(Av)  | 0.92(Av) | nil     |
|         | b) Man power Component                                     | %    | 73(G)                        | 70(G)  | 51(S)     | 94(Ex)  | 102(Ex)  | 62(G)   |
| 5       | Other innovative activities                                | %    | 97(Ex)                       | nil    | 19(Av)    | 32(Av)  | nil      | 82(Ex)  |
|         | District Total (average)                                   | %    | 78(G)                        | 53(S)  | 54(S)     | 71(G)   | 84(Ex)   | 66(G)   |
| 6       | Training of Farmers  | %    | 95(Ex)                       | 76(G)  | 137(Ex)   | 5(Av)   | 60(S)    | 102(Ex) |
| 7       | Exposure visits of farmers                                 | %    | 161(Ex)                      | 74(G)  | 108(Ex)   | nil     | 287(Ex)  | 98(Ex)  |
| 8       | Capacity building oooooof farmers                          | %    | 69(G)                        | 66(G)  | 72(G)     | 21(Av)  | nil      | 71(G)   |
| 9       | Raita Sakthi gumpu(Seded money)                            | %    | 60(S)                        | 52(S)  | nil       | 20(Av)  | nil      | 80(G)   |
| 10      | Food Security group (Seed money)                           | %    | 36(Av)                       | 30(Av) | nil       | 13(Av)  | nil      | 17(AV)  |
| 11      | District level exhibition                                  | %    | 100(Ex)                      | nil    | 50(S)     | 100(Ex) | 100(Ex)  | 100(Ex) |
| 12      | REF - Linkages   | %    | 98(Ex)                       | nil    | 33(Av)    | 33(Av)  | 17(Av)   | 17(Av)  |
| 13      | Organizing Kisan goshties                                  | %    | 100(Ex)                      | 60(S)  | 100(Ex)   | 75(G)   | 110(Ex)  | 100(Ex) |
| 14      | Farm field school  | %    | 81(Ex)                       | nil    | 100(Ex)   | 38(Av)  | nil      | 100(Ex) |
| 15      | Farmer awards  | %    | 71(G)                        | nil    | nil       | 25(Av)  | nil      | 33(Av)  |

|    |   |     |        |      |         |       |        |        |
|----|---|-----|--------|------|---------|-------|--------|--------|
| 16 | Incentives & Rewards to farmer groups       | %   | nil    | nil  | nil     | nil   | nil    | nil    |
| 17 | Organising demonstrations                   | %   | 85(Ex) | nil  | 100(Ex) | 56(S) | 37(Av) | 32(Av) |
| 18 | Total number of farmers benefitted          | No. | 5457   | 3700 | 6595    | 2799  | 2465   | 1990   |
| 19 | SC farmers benefitted                       | %   | 22     | 9    | 14      | 15    | 19     | 17     |
| 20 | ST farmers benefitted                       | %   | 18     | 11   | 10      | 11    | 10     | 11     |
| 21 | Women farmers benefitted                    | %   | 9      | 22   | 51      | 17    | 12     | 5      |
| 22 | Success stories prepared / broughtout       | No. | nil    | 3    | 4       | nil   | nil    | 5      |
| 23 | District level committee meetings conducted |     |        |      |         |       |        |        |
|    | a) DFAC                                     | No. | 2      | -    | 1       | 1     | 1      | 1      |
|    | b) ATMA GB                                  | No. | nil    | 1    | 1       | nil   | 1      | 1      |
|    | Excellent                                   |     | 11     |      | 6       | 2     | 6      | 6      |
|    | Good  |     | 4      | 4    | 2       | 3     | 1      | 7      |
|    | Satisfactory                                |     | 1      | 4    | 4       | 1     | 1      |        |
|    | Average                                     |     | 2      | 4    | 2       | 10    | 3      | 4      |

## Interactions and Field visits

### Chitradurga



### Davanagere





### Bidar district

**Interaction with ATMA staff**



### Kalaburgi

**Interaction with ATMA staff**





Yadgir District

FGD



Interaction with ATMA staff



Raichur District

Interaction with ATMA staff & Field visits

