

Andhra Pradesh Community Based Tank Management Project

Annual
Project Implementation Plan
2008 – 09



Irrigation & CAD Department
Government of Andhra Pradesh

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ANDHRA PRADESH
COMMUNITY BASED TANK MANAGEMENT PROJECT

ANNUAL PROJECT IMPLEMENTATION PLAN: 2008-09

I) Introduction

Project PIP:

The Project Implementation Plan (PIP) was prepared covering all the 4 components of the project, viz., Strengthening community based institutions, Tank system improvement, Agriculture support services and Project management. Strategy, approach and cost tables were provided in detail for all activities. The total outlay for the project was estimated as Rs. 1044 crores to restore 2.5 lakh ha covering 3000 tanks spread over 499 mandals and 21 districts. Batch wise phasing of mandals of the project over three batches is 133, 236 and 130, whereas phasing of tanks is 500, 1000 and 1500 respectively. As mentioned in the Project Appraisal Document, 30 mandals from the 4 Batch II districts (Kadapa, Anaparthi, Kurnool and Rangareddy districts) were brought to Batch I for implementation being drought prone mandals.

Annual PIP 2007-08:

Annual PIP for the year 2007-08 covers the Batch I mandals (163) and tanks (500) in 15 districts. In Batch I mandals, 578 Hydrologically viable tanks allocated to 103 SOs have reached the implementation stage. Project Baseline study for 210 sample tanks and 30 control tanks has been completed. The Annual PIP has its focus on the implementation of Batch I tanks while initiating the planning process for the Batch II tanks.

Annual PIP 2008-09:

Annual PIP 2008-09 will cover the planning and implementation in all 21 project districts comprising 369 mandals and cover about 50% of the project tanks (1500) by the end of the year. About 170 SOs will be in place facilitating planning and implementation in the above tanks. Gaps, if any, as part of the implementation of Annual PIP 2007-08 will also be covered during 2008-09.

District wise Batch wise mandals for 2008-09

| S.No | District | Batch-1 | Batch-2 | Total |
|-------------|-----------------|----------------|----------------|--------------|
| 1 | Vizianagaram | 27 | 6 | 33 |
| 2 | Warangal | 17 | 13 | 30 |
| 3 | Nellore | 10 | 18 | 28 |
| 4 | Srikakulam | 17 | 6 | 23 |
| 5 | Mahabubnagar | 9 | 25 | 34 |
| 6 | Medak | 11 | 13 | 24 |
| 7 | Chittoor | 11 | 22 | 33 |
| 8 | Khammam | 9 | 11 | 20 |
| 9 | Nizamabad | 0 | 9 | 9 |
| 10 | Visakhaptnam | 9 | 7 | 16 |
| 11 | Adilabad | 8 | 11 | 19 |
| 12 | Nalgonda | 0 | 17 | 17 |
| 13 | Anantapur | 15 | 0 | 15 |
| 14 | Karimnagar | 5 | 9 | 14 |
| 15 | Prakasam | 0 | 15 | 15 |
| 16 | Krishna | 0 | 9 | 9 |
| 17 | Kadapa | 5 | 0 | 5 |
| 18 | Ranga Reddy | 5 | 0 | 5 |
| 19 | Kurnool | 5 | 0 | 5 |
| 20 | East Godavari | 0 | 11 | 11 |
| 21 | West Godavari | 0 | 4 | 4 |
| | Total | 163 | 206 | 369 |

II) Component 1: Strengthening community based institutions

1. Institutional strengthening

In Component I, the activities of strengthening institutions have been initiated during last year through the Support Organizations (SOs). In 15 districts of phase I, the DLICs are constituted and functioning. During the year 2007-08, 103 SOs have been allotted 578 hydrologically viable tanks in 15 districts. So far the planning process is completed in 303 tanks and in remaining tanks, the activities are under progress.

a) Constitution of DLIC Batch-II Districts: In Batch II, 6 more districts will be covered. In these districts, process of formation of District Level Implementation Committees (DLIC) as well as identification of dedicated division for DPU will be initiated and completed by 31st March 08. The preplanning and planning activities in these districts will be coordinated by one of the designated PMU members.

b) Selection of SOs and allocation of tanks: Support Organisations (SOs) will be identified as per selection criteria developed and adopted during 2007-08. For new SOs in 21 districts for Batch II mandals, advertisement will be given (Jan 2008) in local as well as national papers, receiving applications through online submission (Jan 2008). The scrutiny will be done as per the two-stage selection criteria and finalized by March 2008. In these 6 districts about 70 SOs will be identified and hydrologically viable tanks will be allotted. The strategy for the tanks allotment to SOs of Batch II mandals of 15 districts will be varying from district to district. Already 8 districts empanelled 46 SOs and DLIC may allot tanks to these SOs, as per their area of operation. An orientation meeting proposed to be organized for probable SOs, which are having better track record with experience in water sector and not participated during initial selection. These SOs will under go regular selection process which will be completed by March 2008.

2. Capacity Building

a) Trainings

Trainings will be organized for both Batch-I and Batch-II tanks. In this year trainings pertaining to 3 phases, i.e., preplanning, planning and implementation of Batch II tanks will be organised. For 578 tanks of Batch I, implementation phase trainings will be organized. Stakeholder wise trainings for both batches planned and budgeted is provided in the following Table

| S No | Stakeholders | Units | Phase I tanks | | Phase II tanks | |
|------|-----------------------------|-------|---------------|------------|----------------|------------|
| | | | No | No of trgs | No | No of trgs |
| 1 | PMU staff | PMU | 1 | 4 | | |
| 2 | DPU staff | Dist | | | 6 | 11 |
| | | | 15 | 6 | | |
| 3 | SOs staff | SO | | | 70 | 9 |
| | | | 103 | 4 | | |
| 4 | All members of WUA | Tanks | | | 1000 | 1 |
| | | | 578 | 2 | | |
| 5 | WUA M.C and Coopted members | Tanks | | | 1000 | 2 |
| | | | 578 | 6 | | |

| S No | Stakeholders | Units | Phase I tanks | | Phase II tanks | |
|------|---|------------------|---------------|------------|----------------|------------|
| | | | No | No of trgs | No | No of trgs |
| 6 | WUA all Sub Committees | Tanks | | | 1000 | 1 |
| | | | <i>578</i> | <i>1</i> | | |
| 7 | WUA finance sub committee | Tanks | | | 1000 | 1 |
| | | | <i>578</i> | <i>1</i> | | |
| 8 | WUA works sub committee | Tanks | | | 1000 | 1 |
| | | | <i>578</i> | <i>1</i> | | |
| 9 | WUA W.M sub committee | | <i>578</i> | 2 | | |
| 10 | WUA M&E and trainings SC | | <i>578</i> | 2 | | |
| 11 | PHM well owners | | | | 400 | 1 |
| 12 | Ground water users | Wells | 220 | <i>1</i> | | |
| 13 | Exposure for identified WUA farmers (with in the state) | | | | 1000 | 1 |
| 14 | Exposure for identified WUA farmers (out of state) | Tanks | 250 | <i>1</i> | | |
| 15 | CIGs (Agribusiness) | | | | 350 | 1 |
| 16 | Agri business (with in state) | Tanks | | | 300 | 1 |
| 17 | Agri business (out of state) | Tanks | 83 | <i>1</i> | | |
| 18 | Existing Gopalamithra | Tanks | | | 350 | 1 |
| 19 | New Gopalamithra | Tanks | 83 | <i>1</i> | | |
| 20 | Dairy farmers | Tanks | 278 | <i>1</i> | | |
| 21 | CIGs(Fore Shore Plantation) | | 167 | <i>1</i> | | |
| 22 | Fisher men C.S. Members | | | | 300 | 1 |
| 23 | Fisher men CSM exposure | Tanks | 167 | <i>1</i> | | |
| 24 | Community Para worker | Tanks | | | 1000 | 4 |
| | | | <i>578</i> | 2 | | |
| 25 | Agriculture Para worker | Tanks | | | 1000 | 2 |
| | | | <i>578</i> | 2 | | |
| 26 | WM Para worker | Tanks | | | 1000 | 3 |
| | | | <i>578</i> | 2 | | |
| 27 | Line departments staff | No. of districts | | | 6 | 12 |
| | | | <i>15</i> | <i>12</i> | | |
| 28 | Support Organisations | Nos. | | | 70 | 4 |
| | | | 103 | <i>4</i> | | |
| | Total | | | 58 | | 57 |

b) Resource organizations.

To cater to the needs of different trainings proposed, resource centers will be identified for Batch I&II districts/mandals. These training centers are owned and managed by different agencies like KVKs, WLAMTARI, NGOs, Research organization, line departments, DATT centers etc. These centers not only serve district level needs but also fulfill subject specialized trainings to paraworkers, community mobilizers, Agriculture persons of SOs etc. The current inventory of resource organizations will be updated.

c) Resource Persons

Subject wise pool of resource persons will be identified and their services will be utilized in the concerned subjects like ground water, fisheries, animal husbandry, community mobilization etc. These resource persons list will be given to the DPUs, for using their

services as per the need. Progressive/lead farmers will be identified and their successful experience will be shared at WUA level trainings, within district or cluster.

d) Capacity Building calendar

Capacity building calendar for 08-09 will be prepared based on the specific needs of different stakeholders involved. Training calendar at three levels i.e., WUA, SO and district will be prepared. The PMU will consolidate the project level CB calendar.

e) Modules and material

Kalajatha module volume I for awareness generation on the project is already developed and it is planned to develop modules on kalajatha volume II and III covering implementation strategies and Operation and Maintenance by organizing the workshops with concerned specialists. The same will be circulated to the DPUs for implementation after conducting a ToT of all district level representatives. Training material such as booklets and flip charts on APFMIS Act will be used for field level trainings. During this year the modules for paraworkers on community mobilization, agriculture and water management will be fine tuned.

f) Monitoring

The present methodologies will be improved for monitoring and impact assessment of trainings at all levels. The training outputs will be captured through input output monitoring where as some of the outcomes will be captured in concurrent monitoring by external agency. Impact assessment of the trainings will be done through feed back mechanism from resource agencies, periodical reports, studies by external agencies etc.

**Details of activities proposed in
Component 1 – Strengthening of Community Based institutions**

| S.No | Activity | UNITS (Phy) | Physical Quantities in Nos. | | | | | | | | | | | | |
|----------------------|---------------------------------|----------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 2008-09 | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar |
| COMPONENT - I | | | | | | | | | | | | | | | |
| A | Institution Development | | | | | | | | | | | | | | |
| | MoUs with Support Organizations | Nos. | 70 | 70 | | | | | | | | | | | |
| | MoU with WUAs | Nos. | 1000 | | | 125 | 100 | 275 | 200 | 150 | 150 | | | | |
| | Approval of TIMPs | No. | 1000 | | | | 100 | 200 | 200 | 200 | 150 | 150 | | | |
| B | Capacity Building | | | | | | | | | | | | | | |
| | Training of Staff | | | | | | | | | | | | | | |
| | SO | No. | 210 | 120 | 90 | | | | | | | | | | |
| | DPU | No. | 90 | 45 | 45 | | | | | | | | | | |
| | Line Depts | No. | 121 | 58 | 63 | | | | | | | | | | |

| S.No | Activity | UNITS (Phy) | Physical Quantities in Nos. | | | | | | | | | | | | | |
|------|---------------------------------|----------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| | | | 2008-09 | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | |
| | Trainings for strengthening WUA | No | 1578 | | 100 | 200 | 200 | 200 | 200 | 200 | 200 | 100 | 100 | 100 | 100 | 78 |
| | Paraworkers trained | No | 4734 | 75 | 225 | 400 | 500 | 500 | 400 | 500 | 500 | 434 | 400 | 400 | 400 | |

III) Component 2: Tank systems improvements

This component includes both the civil works proposed for tank system improvement along with the groundwater component in selected tanks and is given below.

1. Improvement of minor irrigation tanks:

a) Hydrological assessment: The tank selection process as per the PIP has four stages, viz., mandal selection, technical criteria, hydrological assessment and WUA willingness. For the batch wise mandals selected, the DPU will identify tanks requiring the revival and restoration applying the technical criteria and a list of such tanks is prepared. This list, which gives at least 6-8 tanks from each mandal, will be provided to AP State Remote Sensing Applications and Research Centre (APSRAC) for hydrological assessment. The hydrological assessment will be carried out as per the protocol evolved in the Hydrological Assessment study conducted for the project. It is proposed to complete the hydrological assessment of all the 1000 Batch II tanks proposed during this financial year. In addition to this, hydrological assessment will also be completed for about 1500 of Batch III tanks.

b) District level plan: In order to avoid duplication at district level and have a clear understanding on the tanks to be taken up for development under APCBTMP and various other programmes, it is proposed that each DPU will prepare a district plan for implementing under this project.

c) Approval of TIMPs: TIMP prepared for each tank will contain the designs and estimates for tank improvement as its enclosures. Once it is approved in the General Body of WUA, DPU does the scrutiny as part of the approval process. An abstract of the TIMPs will be submitted to the DLIC. The DLIC will approve the abstract while the PMU accords component wise administrative sanction for the same. Technical sanction for the civil works estimates will be accorded either by the DPD, SE or CE as per the prevailing norms of the Irrigation Department. It is proposed to complete the approval process for all the 1000 Batch II tanks by December 2008.

d) Tendering and implementation: After the completion of the administrative and technical sanctions, tendering process will be initiated as per the departmental norms. Wherever possible, as per the need of specific works (prescribed in PIP) and willingness of WUA to carry out those works, WUAs will be allowed to take up works as per the procurement norms of the project within a ceiling of 5 lakhs. Implementation will be initiated for all the Batch II tanks in this financial year with the completion of tendering process.

e) Quality control: Quality control as envisaged in the project will be ensured at three levels viz by WUA, Quality Control Sub division in Irrigation Circle and external agency. A social

audit board will be displayed at each tank with details of the estimates and works proposed in a lucid manner for the WUA to comprehend and supervise the quality during implementation. Works Committee will be strengthened to approve the bills only after getting satisfied about the quality aspects of the works completed. The quality control sub division under the Superintending Engineer at Circle level will also carry out routine quality control. In this regard the project also envisages to strengthen the district quality control labs in the project districts during this financial year. National Council for Cement and Building Materials (NCCBM) which has adequate experience and equipment will be involved as part of third party quality audit.

f) Engineering consultants: As per the felt need in the PIP, services of retired engineers from irrigation department will be procured to assist in the implementation of the project through technical support. At least 2 consultants for each of the 6 Batch II districts will be placed for supporting TIMP preparation, monitoring and implementation of tank improvement works. Further it is proposed to place retd Assistant Engineers wherever vacancies exist duly following the project procurement norms.

Details of activities proposed in Component 2 – Tank system improvements

| S.No | Activity | UNITS (Phy) | Physical Quantities in Nos. | | | | | | | | | | | | |
|------|---------------------------|----------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 2008-09 | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar |
| | | | Phy (No.) | | | | | | | | | | | | |
| 1 | HA and Selection of tanks | No | 1500 | 50 | 100 | 100 | 100 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 100 |
| 2 | Initiation of works (WUA) | No. of Tanks | 1000 | | | | 50 | 100 | 100 | 200 | 250 | 300 | | | |
| 3 | Initiating Tendered works | No. of Tanks | 1000 | | | | | | 50 | 100 | 100 | 200 | 250 | 300 | |

2. Participatory Groundwater management

The first year of implementation has provided substantial inputs into the processes and interventions. Accordingly, the targets and activities are set for the second financial year which would build the capacities of the stakeholders at various levels to implement the participatory groundwater management. The following activities will be taken up as part of the component:

a) Selection of Assessment Units (AU): Selection of most of the AUs would have been made based on the selection of tanks in the first phase tanks. Additional AUs will be selected based on the tanks selected for the project (after hydrological clearance and WUA willingness) simultaneously identifying whether the AUs fall in over exploited, critical, semi critical categories as per groundwater categorization. During the current year about 120 AUs are likely to be covered, spread over 13 districts (Nellore, Prakasham, Chittoor, Kadapa, Kurnool, Anantapur, Mahabubnagar, Warangal, Karimnagar, Rangareddy, Medak, Nalgonda and Nizamabad). District level and state level nodal officers from the department have already been placed for the smooth implementation.

b) Selection of tanks: The selection of tanks will be based on the size and local hydro geological conditions. Proposed tanks are to be of moderate size, approximately 40 –250 ha

of command area, for better learnings and smooth implementation. The size of the tanks will be gradually increased subsequently. Hydrogeological assessment will be carried out by the state groundwater department at district level through reconnaissance surveys. PMU will provide detailed guidelines and necessary trainings in this regard. Once the selection of tanks is completed, the influence zone of the tank will be demarcated adopting participatory methodologies and technically facilitated by the groundwater experts from the department. In this financial year about 500 tanks are proposed to be selected under groundwater interventions.

c) Piezometry: As part of the continuing programme to enhance quantitative and qualitative groundwater data for better assessment and analysis of the groundwater scenario, AWLRs will be installed by having additional piezometers drilled in the uncovered project area as envisaged in PIP. Two to three piezometers will be drilled in the identified AUs with total technical backstopping by the GWD following procurement norms as detailed in the project procurement manual. It is proposed to commission **300** piezometers in the current financial year spread over **120** additional AUs.

d) Organization of groundwater users: Groundwater users in the influence zone of the selected tank will be organized into groundwater user groups as per the norms detailed in PIP. Groundwater Management Committee will be formed for each selected tanks to coordinate. Ground Water Department has submitted the proposal to the government in this regard.

e) PHM: Participatory Hydrological Monitoring will be taken up in selected tanks. Assessment of local ground water situation will be carried out in the selected tanks by installing rain gauges and PHM equipment in 4-5 selected wells by the GWD. Data on the availability of ground water, usage trends will be analyzed by the ground water user groups with the technical support of ground water department from the data collected. Water budgeting and crop audits will be facilitated by the SO and DPU staff along with groundwater department for arriving at suitable cropping patterns. PHM equipment will be procured as per the project procurement norms by the GWD. Trainings will be conducted to the field level personnel and SO staff on the PHM and subsequent participatory groundwater management aspects. PHM will be introduced in 500 tanks during the financial year 2008-2009.

f) Water quality testing labs: Water quality will be tested, as required under SEMF in PIP, in the selected tank sites and groundwater department will carry out the same. Ground Water Department labs will be upgraded at State and District levels. During this financial year, 6 existing labs will be upgraded along with the State level lab. Water samples will be tested from the sites of Batch II tanks.

**Details of activities proposed in
Component 2 – Participatory Groundwater Management**

| S.No | Activity | UNITS (Phy) | Physical Quantities in Nos. | | | | | | | | | | | | |
|------|-------------------------|-------------|-----------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 2008-09 | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar |
| | | | Phy (No.) | | | | | | | | | | | | |
| 1 | Drilling of piezometers | No | 300 | Reconnoitery surveys and investigations for selection of tanks , Assessment units and sites for drilling piezometers | | | 25 | 25 | 50 | 50 | 50 | 50 | 25 | 25 | |

| S.No | Activity | UNITS (Phy) | Physical Quantities in Nos. | | | | | | | | | | | | |
|------|--------------------------------|--------------|-----------------------------|--|-----|-----|------|------|------|------|------|------|------|-----|-----|
| | | | 2008-09 | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar |
| | | | Phy (No.) | | | | | | | | | | | | |
| 2 | Installation of AWLRs | No | 300 | Drilling of piezometers and based on ICB procurement procedures | | | | | 25 | 50 | 75 | 75 | 50 | 25 | |
| 3 | Installation of PHM equipment | No. of Tanks | 500 | Investigation for selection of tanks, demarcation of zone of influence and identification of wells for PHM | | | 25 | 75 | 100 | 100 | 100 | 75 | 25 | | |
| 4 | Aquifer performance test | No. Of AUs | 112 | Drilling of piezometers, selection of piezometers for pumping test and construction of well field | | | 12 | 20 | 20 | 20 | 20 | 20 | - | | |
| 5 | Trainings to Groundwater users | No. of tanks | 500 | Selection of wells for PHM, identification of resource persons | | | 50 | 50 | 50 | 50 | 100 | 100 | 100 | | |
| 6 | Groundwater users trained | No. | 15000 | Selection of wells for PHM, identification of resource persons | | | 1500 | 1500 | 1500 | 1500 | 3000 | 3000 | 3000 | | |

IV) Component 3: Agricultural Livelihoods Support Services

1. Agriculture / Horticulture:

Agriculture information of all the tank villages along with specific problems will be collected, analysed and interventions suitable to that village will be identified. Along with crop demonstrations, this sub component also includes demonstrations of improved techniques such as SRI and Integrated Crop Management that consists of nursery management, Integrated Nutrient Management (INM), Integrated Pest Management (IPM) etc. Crop and technology demonstrations will be taken up to build the capacities of the farmers in the tank areas for change in cropping pattern that results in maximising the economic output of the cropping system under the tank.

In this financial year it is proposed to take up 1725 crop demonstrations in the Batch I and Batch II tanks, in kharif and rabi together. It is proposed to train up around 35000 farmers in improved technology. Crops proposed for demonstrations in this year are paddy, groundnut, maize, cotton, chillies, sorghum and pulses depending on the agro climatic conditions, tank specific problems, prevailing cropping patterns and market conditions. Integrated crop management will be demonstrated in all the demonstration plots. It is proposed to train and motivate at least 20 farmers for each demonstration plot to result in technology adoption. Fodder, vegetables, medicinal and aromatic plants will also be included in the demonstration of non traditional crops. Horticultural crop (Vegetable crops) demonstration will be in the peri urban areas after mapping the same from the tanks proposed for development during this year. The Department of Agriculture in principle agreed to organize these demonstrations either in kharif or rabi based on requirement and suitability. The DPU along with District Nodal Officer from line department will prepare district action plan for organizing these activities. The line department is responsible for timely supply of inputs required for organizing these technology demonstrations.

In this financial year it is proposed to organize 200 exposure visits to farmers to suitable places where new and improved technologies practicing successfully. The line department Nodal Officers will help in identification of such places either with in state or other states. The DPU organize these exposure visits to farmers selecting 5 farmers including ground water users from each tank village.

In this financial year it is proposed to organize one kisan mela in each of batch I and batch II tanks. These kisan melas include scientist- farmer interaction sessions, new products and technology exhibition and animal health camp. These kisan melas are planned jointly by DPU and line department nodal units. The DPU will organise the kisan melas where as line department staff, scientist from ARS (Agriculture research station) and DAATT centre actively participate in the event.

2. Livestock development:

In this financial year it is proposed to take up refresher trainings for 525 existing gopalmittas in batch I and batch II tanks through Animal Husbandry department in these tank areas. It is proposed to induct 200 new gopalmittas based on requirement to cover batch I and batch II tank villages through identification by WUA facilitated by SO and Animal Husbandry department. New gopalmittas will also be provided with necessary equipment to effectively implement the breed improvement programme. Fodder demonstration will be taken up as part of agriculture sub component and multiplication plots will be planned to enable the farmers collect fodder slips and grow in their plots. In this financial year it is proposed to train 900 batches of dairy farmers in animal management aspects in batch I and batch II tanks. In addition to above it is proposed to pilot ram lamb units in selected districts. The farmers will be identified by WUA and line department jointly. Piloting of azolla units also proposed in tank villages where nutritional aspects need to be concentrate to improve the milk productivity.

3. Fisheries Development:

In this financial year, fisheries development will be undertaken in about 500 tanks where improved production practices such as fingerling stocking, feed supplements and capacity building will be provided to Fisheries cooperative societies. The selection of tanks will be made based on the criteria explained in the PIP involving fisheries department. The department will also procure and supply the fingerlings to the FCS and impart trainings. It is proposed to take up about 20 tanks for intensive aquaculture based on the learnings from the previous year's experience.

4. Foreshore Plantation:

Nursery raising, pre-planting activities, including CIG trainings will be taken up as part of foreshore plantation in about 1000 ha (in about 200 tanks) during this year. This is against 6000 ha proposed in the PIP for the project. Forest department will be involved in identifying sites, preparation of sites, nursery raising or supply of saplings and capacity building of VSS/WUA/SHGs/CIGs.

5. Marketing and business development:

a) **Market led production:** In this financial year it is proposed to introduce market led production in at least 2000 ha of command area, approximately covering 75 Batch I tanks. Crops will be identified based on the consultations with the buy back agencies and private extension service providers. At least 3 crops will be identified with emphasis on sweet sorghum (bio fuel extraction), bajra (hybrid seed production), sorghum (hybrid seed production), maize (hybrid seed production) etc. Commodity specialists/agencies will be

appropriately inducted to facilitate the processes who will function on part payment and /part commission basis.

- b) Collective marketing centres:** It is proposed to introduce collective marketing and establish collective marketing centres in at least 150 batch I tanks based on the critical mass availability and marketing opportunity. The CIGs of farmers will be organised by the SO and trained by DPU, it is proposed to train at least 3000 farmers in marketing activity. Commodity specialists will provides tie ups with the market and work on part payment and /part commission basis. 2-3 crops will be identified for marketing after a detailed survey and by DPU/PMU on various parameters such as market demand, availability of buyers, distance from market, reducing value chain, production levels etc. The DPUs will conduct value chain analysis of identified products and identify weak links to detach from the chain for upgrading farmer in value chain.
- c) Buyer seller meetings:** It is proposed to organise 21 buyer seller meetings, one each in the project implementing districts to facilitate interaction between CIGs and buyers to understand the market requirements, needs, price trends and mutual expectations.
- d) State level public private partnership workshop:** One state level public private partnership workshop involving all available corporate bodies to explore the possibilities of the partnership between project and firms in the field of agri business.
- e) Exposure visit to farmers and project staff:** 28 exposure visits to farmers and project staff will be organized to successful community based agri business intervention areas to understand and motivate the farmers to start small agribusiness ventures.
- f) Fisheries marketing (retail and bulk):** Based on the experience of first year improved fish production, marketing activities will be planned and implemented. The fisher women group, who are actively involved in retail marketing will be identified along with department of fisheries and it is proposed to supply ice boxes to help their activity. Based on the proposal developed by FCS and submitted through WUA, short term loans will be provided from the agribusiness and marketing fund for bulk marketing.
- g) Establishment of Information Kiosks:** Information Kiosks will be established in about 200 tanks this year. Technical support will be provided by ANGR Agricultural University in developing the knowledge base while PMU will identify suitable partner to develop the interactive software in telugu, train the WUA in usage of kiosk, maintain the kiosk till it is comfortable with the maintenance on its own. These information kiosks will provide latest agricultural information of major crops of that area, market price trends of different markets, buyers information, credit information, insurance information and latest weather information. Kiosks will be placed at WUA office premises and will be maintained by partner agency initially and hand it over to WUA after proper training of agriculture paraworker in its management. Farmers will access information on improved technologies, integrated crop management of about 20 -30 crops. The kiosks will be connected to internet for up dated information on markets.

**Details of activities proposed in
Component 3 – Agricultural Livelihood Support Services**

| S · N o | Activity | UNITS (Phy) | Physical Quantities in Nos. | | | | | | | | | | | | |
|------------------|---|-------------------|-----------------------------|-----|-----|-----|------|-------|------|-----|------|------|------|-----|-----|
| | | | 2008- 09 | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar |
| | | | Phy (No.) | | | | | | | | | | | | |
| A | Agri- extension | | | | | | | | | | | | | | |
| | Demonstrations in Agri /Horti | | | | | | | | | | | | | | |
| | Technology demonstrations | No. of tanks | 1725 | | | | 300 | 550 | 250 | | 100 | 375 | 150 | | |
| | Farmers trained | No. | 34500 | | | | 6000 | 11000 | 5000 | | 2000 | 7500 | 3000 | | |
| | Exposure visits to farmers (With in state) | No. of batches | 180 | 30 | 30 | 30 | | | | | | | 30 | 30 | 30 |
| | No.of farmers participating in exposure visit | No | 5400 | 900 | 900 | 900 | | | | | | | 900 | 900 | 900 |
| | Exposure visits to farmers (Out of state) | No.of batches | 20 | | | | | | | 5 | 5 | | 5 | 5 | |
| | No.of farmers participating in exposure visit | No | 600 | | | | | | | 150 | 150 | | 150 | 150 | |
| | Adoption of improved techniques | | | | | | | | | | | | | | |
| | Kisan melas (including animal health camps) | No. | 1500 | 400 | 300 | 100 | | | | | 300 | 200 | 200 | | |
| | Line Depts and SO staff training and review meetings | No | 492 | 30 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| B | Animal husbandry | | | | | | | | | | | | | | |
| | Training to new Gopalmitras | No. | 200 | | 25 | 25 | 50 | 50 | | | | 25 | 25 | | |
| | Refresher training to existing Gopalmitras | No. | 525 | 50 | 75 | | | 100 | 100 | 100 | | | 50 | 50 | |
| | Ram Lamb units (Pilots) | No | 200 | | | | | | 50 | 50 | 50 | 50 | | | |
| | Ram lamb farmers training | No.of batches | 40 | | | | 20 | | 20 | | | | | | |
| | Dairy Farmers training | No.of batches | 900 | | 100 | 300 | 100 | | | | | 100 | 100 | 200 | |
| | Azolla Pilots | No | 40 | | | 20 | 20 | | | | | | | | |
| | Review workshops for line deptt. staff | No | 240 | 15 | 15 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |

| S · N o | Activity | UNITS (Phy) | Physical Quantities in Nos. | | | | | | | | | | | | |
|------------------|--|--------------------|-----------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|
| | | | 2008- 09 | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar |
| | | | Phy (No.) | | | | | | | | | | | | |
| C | Fisheries | | | | | | | | | | | | | | |
| | Fisheries Demonstrations | No. of tanks | 500 | | | | | | | 150 | 150 | 200 | | | |
| | Training to fisher folk | No. of batches | 100 | | | | 30 | 30 | 40 | | | | | | |
| | No. of Fisherman trained | No | 2000 | | | | 600 | 600 | 800 | | | | | | |
| D | Foreshore plantation | | | | | | | | | | | | | | |
| | Nursery raising and maintenance | No of tanks | 200 | _____ | | | | | | | | | | | |
| | Area under plantaion | ha | 1000 | | | 50 | 400 | 450 | 100 | | | | | | |
| | Identification of CIGs and Trainings on nursery raising | No of tanks | 300 | | | | | | | | | _____ | | | |
| E | Marketing and Agri Business | | | | | | | | | | | | | | |
| | Buyer Seller meetings | No | 22 | | | 6 | 16 | | | | | | | | |
| | State level PPP workshop | No | 1 | | 1 | | | | | | | | | | |
| | Farmers exposure visit (with in state) | No. of batches | 27 | | 5 | 10 | 10 | 2 | | | | | | | |
| | Project staff exposure visit (Out of state) | No. of batches | 1 | 1 | | | | | | | | | | | |
| | Project staff training | No. of person days | 20 | | | 20 | | | 20 | | | 20 | | | |
| | WUA Marketing trainings | No. of batches | 100 | | | 10 | 20 | 20 | | | | 20 | 30 | | |
| | No. of farmers trained | No | 3000 | | | 300 | 600 | 600 | | | | 600 | 900 | | |
| | Preparation of software for information kiosk, updation and its maintainence | No. | 1 | _____ | | | | | | | | | | | |
| | Establishments of information kiosks for agri support & mktng | No. | 200 | | | 25 | | | 50 | 50 | 50 | 25 | | | |
| | Establishment of collective mktng. centers | No. | 150 | | | | | | | 50 | 50 | 50 | | | |

| S · N o | Activity | UNITS (Phy) | Physical Quantities in Nos. | | | | | | | | | | | | |
|------------------|----------------------------------|----------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 2008- 09 | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar |
| | | | Phy (No.) | | | | | | | | | | | | |
| | Equipment to New Gopal Mitra | No. | 200 | | 25 | 25 | 50 | 50 | | | | 25 | 25 | | |
| | Ice boxes for fisher women | No | 300 | | | | | | | | | 100 | 100 | 100 | |
| | Agri business and marketing fund | No.of tanks | 100 | | | | | | | | | | 20 | 40 | 40 |

V) Component 4: Project Management

1. Procurement policy, plan & strategy:

Annual procurement plan for the year 2008–09 is prepared (Annexure I) and will be submitted to World Bank for concurrence duly taking into consideration the approved 18 months procurement plan for all the goods, works, trainings and services proposed in this financial year. Procurement officers will be placed in each of the Batch II districts and will be trained by ASCI on procurement procedures connected with the project including refresher trainings for the staff.

2. Monitoring and Evaluation:

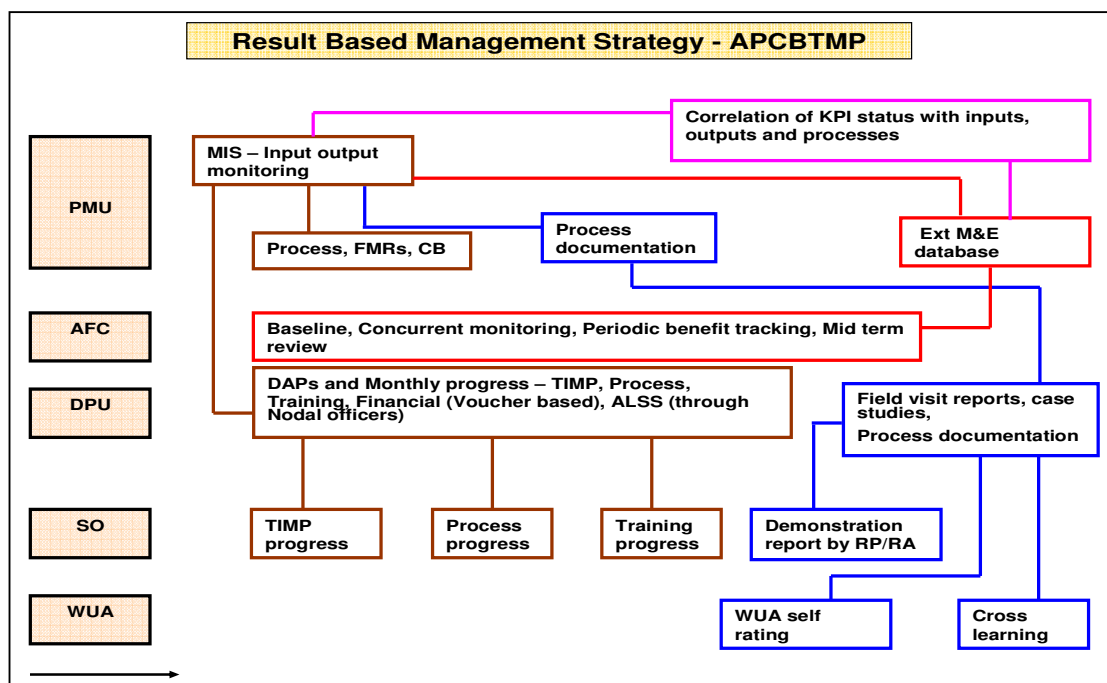
Agricultural Finance Corporation (AFC) as the external Monitoring Agency has initiated the activities as part of the external M&E. Field work for baseline study covering 210 tanks has been completed while analysis and report writing is in progress. Baseline Report will be submitted by 15th January 2008. Design of concurrent monitoring has been completed followed by pre-testing and thorough discussions with PMU staff. Sample tanks have been selected and monitoring is under progress. By March 2008 AFC will submit 4 monthly reports. 30 sample tanks for longitudinal study are selected from the 210 tanks where baseline was conducted representing the agro climatic zones, different sizes of the tanks, and the districts. Households selection process, and training to key informants, like paraworkers, will be completed by 15 February 2008 that also includes placing relevant registers for collecting information regularly. The In-house MIS developed for Input–output monitoring will be refined as suggested by the Mission during its visit in October 2007 by procuring the services of an expert. Process has been initiated for piloting the cross learning in a sample of 3-4 WUA clusters (SOs). Procurement of the services is in progress while the concept and strategy finalized by the PMU.

- a) **Concurrent monitoring:** External M&E Agency Agricultural Finance Corporation will carry out the concurrent monitoring as per the finalized methodology and approach. The first six monthly concurrent monitoring report for the period of November 2007 to May 2008 will be submitted in June 2008. APD (MLE) at DPU will coordinate the monitoring and participate during the field visits. AFC will maintain the database of the concurrent monitoring and provide it to the PMU for comparative analysis with the Input-Output monitoring. This will help in arriving at the gaps in implementation to result in strategic

planning. The sample size for concurrent monitoring will be 4 tanks per month till October 2008 and 8 tanks per month from November 2008 to March 2009.

- b) **Longitudinal Study:** Longitudinal study in 30 identified tanks will be continued from the previous year as per the finalized approach and methodology. Procurement and installation of inflow, outflow measurement equipment will be completed by 31st March 2008 and the measurement of the flows will commence from 2008 monsoon. This will be treated as baseline information.
- c) **Input output monitoring:** Input-output monitoring system will be carried out in a full fledged manner from 1st April 2008. The MIS will also incorporate information gathered through standardized periodic reports from line departments on different interventions in ALSS along with the key information in Field visit reports submitted by the DPU and PMU staff.
- d) **Participatory monitoring:** Participatory monitoring comprises self rating WUA and cross learning. Self rating will be initiated in all the WUAs and continued with facilitation of SO periodically (quarterly) and the data will be captured in MIS. Pilot on the cross learning will be completed for the quarter April – June 2008 in the sample SO clusters and an upscaling strategy will be finalized by August 2008.
- e) **Research and Documentation:** The project proposes to carry out research studies in 2008-09 on the issues identified from the experiences and learnings generated from project implementation in the first year. A national level seminar and state level seminars are planned on specific themes arising out of the project implementation process. Result of these studies and seminars will be disseminated to the wider audience through the website as well as print media. Quarterly news letters and process documentation report for the year 08-09 will be published and circulated widely among the stakeholders.

The details of the results based management strategy for the project is detailed in the following schematic diagram



3. Project Disclosure

An exclusive website (www.apmitanks.in) for the project is already in place and updated frequently. The website contains information such as relevant Acts, rules and regulations, component wise interventions of the project, all project preparation reports i.e. PIP & six manuals and other reports, safeguard policy, progress reports among others. Individual abstract of approved TIMPs will be placed in website.

4. Grievance Redressal

The grievances arising at the tank level will be addressed by the WUA General Body meeting as per APFMIS act. At the district level the grievances will be addressed by the DLIC. At the state level one EE is nominated to handle the grievances related to the project. The EE at the state level is also nominated to handle the queries regarding Right to Information Act.

5. Financial Management:

The Budget for 2008-09 for different activities under different components is given in Annexure II. Six monthly targets for physical monitoring indicators (the agreed indicators and format summarised in Attachment IV of the Minutes of Negotiations) is provided in Annexure III along with Financial Report as Annexure IV.