

# Andhra Pradesh Community Based Tank Management Project

Annual  
Project Implementation Plan  
2007 – 08



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**Irrigation & CAD Department**  
Government of Andhra Pradesh

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# ANDHRA PRADESH

## COMMUNITY BASED TANK MANAGEMENT PROJECT

### ANNUAL PROJECT IMPLEMENTATION PLAN: 2007-08

#### I) Introduction

##### A) 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, Anantapur, Kurnool and Rangareddy districts) were brought to Batch I for implementation being drought prone mandals.

##### B) Annual PIP 2007-08:

Annual PIP for the year 2007-08 has been prepared to cover the Batch I mandals (163) and tanks (500). The districts and mandals in Batch I are given in Table 1. Out of the Batch I mandals, 25 tanks are selected as pilot tanks spread over 12 districts and 23 mandals, facilitated by 22 Support organisations. The Annual PIP has its focus on the implementation of Batch I tanks while initiating the planning process for the Batch II tanks. The implementation arrangements and strategies will be broadly as per the Project PIP and specific strategies are discussed below wherever necessary.

**Table 1: District wise number of mandals under Phase-I**

S.No	District	No. of Mandals
1.	Srkakulam	17
2.	Vizianagaram	27
3.	Visakhapatnam	9
4.	Nellore	10
5.	Chittoor	11
6.	Mahabubnagar	9
7.	Medak	11
8.	Adilabad	8
9.	Karimnagar	5
10.	Warangal	17
11.	Khammam	9
12.	Ananthapur	15
13.	Kurnool	5
14.	Ranga Reddy	5
15.	Kadapa	5
<b>Total</b>		<b>163</b>

## II) Component wise details

### A) *Component 1: Strengthening community based institutions*

Component I has its focus on strengthening of community based institutions and other institutions through organising, mobilising, sensitising and capacitating. Different interventions in the process for smooth implementation of the project to achieve the long term objectives are as follows:

- 1. Constitution of DLIC:** The District Level Implementation Committees (DLIC) are proposed in the project for over all coordination at district level, chaired by District collector with heads of different line departments as members and DPD (District Project Director) as convener. These are required to be formed in 15 Batch I districts. In this regard discussions with District Collectors are to be held to orient officers on the project objectives and implementation strategies. Necessary guidelines will be issued by the Government to constitute the DLICs in all districts.
- 2. Selection of SOs and allocation of tanks:** Support Organisations (SOs) will be involved in the implementation of the project as envisaged in PIP. Detailed guidelines for selection of SOs, based on their past experience and capability in implementing the project as desired, will be worked out to ensure transparent selection process. The DLICs and DPUs will be provided assistance by PMU in the selection and induction of the SOs and their staff members at the district level. Once the SOs are selected, tanks will be allocated to the SOs based on the parameters such as number of tanks, command area, contiguity etc., and detailed guidelines will be provided to DPU.
- 3. Awareness generation:** In view of the importance given to community participation in the project at different stages, it becomes imperative to create complete awareness among the Community Members on the project for their active participation. Based on the previous experiences in the state on community organisation and mobilisation in various programmes, including minor irrigation, a detailed strategy will be worked out to ensure the awareness on project objectives and implementation strategies at grassroot level. The strategy will include different methodologies such as wall writings, folk shows, film screening etc. This will be part of WUA level capacity building as per the cost tables. It will be ensured that the sequencing of this activity is in tune with the designed project cycle.
- 4. TIMP preparation:** Tank improvement and Management Plan (TIMP) is the unique feature of this project as detailed in PIP envisaging holistic development reflecting all the activities proposed at tank level duly adopting a transparent and participatory approach. TIMP process in each of the selected tanks will be taken up by the WUA thoroughly facilitated by SO and supported by DPU and other concerned line departments. This will begin with awareness on the project as discussed earlier. Each tank will have a specific TIMP document with all the relevant information and processes as enunciated in the PIP. TIMP includes all details on physical works proposed for improvement of the tank, trainings along with the agriculture support services with supporting data sheets and other relevant information as specified in PIP. TIMPs will be prepared for all the Batch I tanks followed by the approval process at WUA, DPU, DLIC and PMU level. Social and Environmental Management Framework (SEMF) will also be taken into consideration, especially encroachment, dam safety, environment

related aspects through collection of relevant information and proposed actions in TIMP. Guidelines for the same will be issued for clarity on the process at all levels. TIMP process, which falls in the pre planning phase as per the project cycle will also be initiated in some of the selected tanks of Batch II by the end of this financial year. It will be ensured that trainings to WUAs will be conducted on TIMP preparation before the initiation of the actual process.

5. **Capacity building:** Capacity Building will be given utmost priority in line with the objectives envisaged in component I of the project. Capacity building interventions will be primarily for WUAs and paraworkers at tank level along with secondary stakeholders in the project at different levels. The trainings as listed out in the PIP along with specific need based trainings identified in a given tank/district will be taken up for WUAs. A district level annual training calendar will therefore be prepared after assessing the training needs of different stakeholders. PMU will provide necessary guidance and support for the preparation and approval of the same. State level training calendar will emerge aggregating the district level training calendars and adding necessary state level events. Wherever necessary, appropriate modules will be developed for the trainings engaging the resource agencies/persons as per the requirement. Resource agencies will also be identified at state and district level for implementing the training programmes as per the prescribed modules and approved schedule. All the Batch I WUAs will be imparted training during this year with emphasis on their roles and responsibilities as described in the APFMIS Act in general and APCBTMP in specific. Three paraworkers in every tank, one each for community organisation, agriculture and water management identified by the WUA will be trained this year. Induction trainings will be given to SO staff identified for Batch I tanks, DPU staff including the engineering consultants and PMU staff. Orientation trainings will be conducted for the identified nodal officers of line departments at state and district level. It is also proposed to provide orientation on the project to the public representatives at different levels.

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

S.No	Activity	UNITS (Phy)	Physical Quantities in Nos.												
			2007-08	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			Phy (No.)												
<b>A</b>	<b>Institution Development</b>														
	MoUs with SOs	Nos.	70			25		25			20				
	MoU with WUAs	No. of WUAs	500			25	75	100	100	150	50				
	Approval of TIMPs	No. of tanks	500				25	25	100	150	150	50			
<b>B</b>	<b>Capacity Building</b>														
	Training of Staff														
	SO	No.	210			75		75			60				
	DPU & PMU	No.	150	50			50	50							
	Line Depts	No.	90	30				30	30						
	Trainings for strengthening WUA	No	500	25			25	50	100	100	100	100			
	Paraworkers trained	No.	1500	75			75	150	300	300	300	300			

## **B) 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 500 Batch I tanks proposed during this financial year. In addition to this, hydrological assessment will also be completed for about 1000 of batch II 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 to evolve a district plan for improvement of tanks under different sources of funding.

**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 TIMP will be submitted to the DLIC and PMU. The DLIC will vet the abstract while the PMU accords the administrative sanction (if required). Technical sanction for the TIMP 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 500 Batch I tanks by December 2007. Detailed guidelines will be issued to the DLICs, SEs and DPUs for the TIMP preparation and approval process.

**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. Learnings from the implementation of 25 pilot tanks will provide a better insight for the implementation of the rest of the tanks. Implementation will be initiated for all the Batch I 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. An external agency will also be involved as part of third party quality audit as per the prescribed procurement norms. It is proposed to involve National Council for Cement and Building Materials (NCCBM) which has adequate experience and equipment to take up this task.

*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 15 Batch I districts will be placed for supporting TIMP preparation, monitoring and implementation of tank improvement works.

### Details of activities proposed in Component 2 – Tank system improvements

S.No	Activity	UNITS (Phy)	Physical Quantities in Nos.												
			2007-08	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			Phy (No.)												
	HA and Selection of tanks	No	1500	50	100	100	100	150	150	150	150	150	150	150	150
	Initiation of works (WUA)	No. of Tanks	500					25	50	50	100	125	150		
	Initiating Tendered works	No. of Tanks	500						25	75	100	150	150		

## 2. Groundwater management

Groundwater component will be taken up in selected tanks out of the project tanks as per the criteria listed out in PIP. About 40% of the proposed tanks, i.e., 1200 tanks will be considered for implementation of groundwater interventions which are likely to fall in about 300 Assessment Units. Though there are learnings on Participatory Groundwater Management from projects like APWELL, APFAMGS etc., this is the first time that groundwater component is made part of a minor irrigation system. The project therefore consciously keeps in mind that the first year of implementation will provide deeper insights into the processes and interventions. Accordingly the targets and activities are set for this financial year which builds the capacities of the project staff and other stakeholders at various levels. The following activities will be taken up as part of the component:

*a) Selection of Assessment Units (AU):* Selection of AUs will be made taking into consideration 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 40 AUs are likely to be covered, spread over 10 districts (Nellore, Chittoor, Kadapa, Kurnool, Anantapur, Mahabubnagar, Warangal, Karimnagar, Rangareddy, Medak). District level and state level nodal officers from the department will be placed for the smooth implementation apart from placing an officer from the GW department in PMU for coordination as proposed in PIP.

**b) Selection of tanks:** The selection of tanks will be based on the size and local hydro geological conditions. Tanks, initially, proposed 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. Appropriate tools and methodology will be developed, in this regard, by the PMU for training GW department, DPU and SO staff. In this financial year about 200 tanks are proposed to be selected under groundwater interventions.

**c) Piezometry:** In order 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 project area as envisaged in PIP. Two to three piezometers will be installed in identified AUs with total technical backstopping by the GWD following procurement norms as detailed in the project procurement manual. It is proposed to commission 100 piezometers in the current financial year spread over 40 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. Guidelines will be issued for building these institutions in consultation with the groundwater department and other related agencies.

**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 200 tanks during the current financial year.

**f) Water quality testing labs:** Water quality will be tested as required in SEMF in PIP in the selected tank sites and groundwater department will carry out the same. Groundwater department labs will be upgraded at state and district level. 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 I tanks.



## Details of activities proposed in Component 2 - Groundwater

S.No	Activity	UNITS (Phy)	Physical Quantities in Nos.												
			2007-08	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			Phy (No.)												
1	Drilling of piezometers	No	100	Reconnoitery surveys and investigations for selection of tanks , Assessment units and sites for drilling piezometers					20	30	50				
2	Installation of AWLRs	No	100	Drilling of piezometers and based on ICB procurement procedures								50	50		
3	Installation of PHM equipment	No. of Tanks	200	Investigation for selection of tanks, demarcation of zone of influence and identification of wells for PHM			20	20	20	40	50	50			
4	Aquifer performance test	No.	38	Drilling of piezometers, selection of piezometers for pumping test and construction of well field							10	14	14		
5	Trainings to Groundwater users	No. of tanks	200	Selection of wells for PHM, identification of resource persons and preparation of required modules			20	20	20	40	50	50			
6	Groundwater users trained	No.	6000	Selection of wells for PHM, identification of resource persons and preparation of required modules			600	600	600	1200	1500	1500			

### C) Component 3: Agricultural livelihoods support services

Agricultural Livelihood Support Services comprises agriculture, livestock development, fisheries development, foreshore plantation and marketing and business development. As elucidated in PIP, activities will be planned under each of the components with defined implementation arrangements. The nodal officers at district and state level will be placed from the line departments concerned. DPDs will coordinate with line departments under the guidance of DLIC in implementing the activities under respective sub components. The project lays special emphasis on this component as most of the key performance indicators are from this component.

#### 1. Agriculture / Horticulture:

Important activities under this sub component as explained in PIP are technology demonstrations in traditional and non traditional crops, vegetables and medicinal/aromatic plants. 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, Integrated Pest Management 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 one crop demonstration in each of the Batch I tanks either in kharif or rabi. Crops proposed for demonstrations in this year are paddy, groundnut, maize, cotton, chillies, sorghum and pulses depending on the

agro climatic conditions, 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. Resource agencies/persons will be identified with emphasis on extension support systems of Agricultural department and Krishi Vignan Kendras of ANGR Agricultural University to take up the demonstrations.

## **2. Livestock development:**

The primary objective of this sub component lies in the enhanced milk production in the tank areas through cattle breed improvement, fodder production and improved animal health care. Accordingly the activities proposed as per the PIP are strengthening existing gopalmitras, inducting new gopalmitras where necessary, improvement of fodder through demonstration and multiplication and organising animal health camps as part of kisan melas. In this financial year it is proposed to take up refresher trainings for existing gopalmitras in batch I tanks through Animal Husbandry department after the identification of gopalmitras in those tank areas. Identification of new gopalmitras by WUA facilitated by SO and Animal Husbandry department will also be done where necessary for imparting training to gopalmitras by the department. New goplmitras 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.

## **3. Fisheries Development:**

About 1000 tanks were proposed for fisheries development including 70 tanks for intensive aquaculture as per the PIP. In this financial year, fisheries development will be undertaken in about 150 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. Scope for intensive aquaculture will be assessed based on the learnings from the current years experience at suitable tanks by the DPU and fisheries department

## **4. Foreshore Plantation:**

Nursery raising, pre-planting activities, including CIG trainings will be taken up as part of foreshore plantation in about 750 ha (in about 150 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 CIGs. CIGs will be organised by SO involving the WUA for maintenance and sharing of the produce. PMU will work out the sharing mechanism and necessary guidelines will be issued, in due course.

## 5. Marketing and business development:

Marketing and business development sub component includes the following activities as detailed in PIP:

- a. **Market led production:** In this financial year it is proposed to introduce market led production in at least 500 ha of command area, approximately covering 20-25 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) 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:** It is proposed to introduce collective marketing in at least 40 tanks based on the critical mass availability and marketing opportunity. The CIGs of farmers will be organised by the SO and trained by DPU. Commodity specialists will provide 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
- c. **Dairy route extension:** The dairy routes will be mapped in detail involving the AP State Dairy Development Corporation and Animal Husbandry department in this financial year and the activities will be taken up in the next year.
- d. **Fisheries marketing (retail and bulk):** Based on the synthesis of experience of this year ion improved fish production, marketing activities will be planned this year which will be implemented in the coming year.
- e. **Small agribusiness ventures:** Studies will be conducted by DPU/PMU for the feasibility of small agri-business ventures depending on the availability of raw material and WUA's participation levels. Trainings will be organised for the development of plans which will be facilitated and implemented in the next year.
- f. **Establishment of Information Kiosks:** Information Kiosks will be established in about 40 tanks this year as detailed in PIP. Technical support will be provided by ANGR Agricultural University in developing the knowledge base while PMU will develop the interactive software in telugu. Kiosks will be placed at WUA office premises and will be maintained by agriculture paraworker. 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 Livelihoods Support Services**

S.No	Activity	UNITS (Phy)	Physical Quantities in Nos.												
			2007-08	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
			Phy (No.)												
<b>A</b>	<b>Agri- extension</b>														
	<b>Demonstrations</b>														
	Technology demonstrations	No. of tanks	550						125				300	125	
	Farmers trained	No.	11000						2500				6000	2500	
	Exposure visits to farmers	No.	60									30	30		
	<b>Adoption of improved techniques</b>														
	Kisan melas (including animal health camps)	No.	550					50	100	150	100	100		50	
<b>B</b>	<b>Animal husbandry</b>														
	Identification and Training to new Gopalmitras	No.	75					45	30						
	Refresher training to existing Gopalmitras	Nos.	175			45	45	45	40						
<b>C</b>	<b>Fisheries</b>														
	Fisheries Demonstrations	No. of tanks	150					50	100						
	Training to fisher folk	Nos.	450					150	300						
<b>D</b>	<b>Foreshore plantation</b>														
	Nursery raising and plantation	No of tanks	10					5	5						
	Area under plantaion	ha	50					25	25						
	Identification of CIGs and Trainings on nursery raising and maintenance	No of tanks	150					10				70	70		
<b>E</b>	<b>Marketing and Agri Business</b>														
	Establishments of information kiosks for agruculture support & marketing	No.	50								10	10	20	10	
	Establishment of collection centers	No.	50									10	30	10	
	Equipment to New Gopal Mitra	No.	75					45	30						

#### ***D) Component 4: Project Management:***

DPU's will be set up with dedicated divisions in the 15 Batch I districts headed by the Executive Engineer as District Project Director. The PMU and DPU's will be set up as per GO MS No.231 by selecting professionals with required qualifications adopting the prevailing procedures and norms and inducted into the project. Officers from the irrigation department will be designated for the positions mentioned in the GO at PMU and DPU levels.

##### **1. Tank Improvement and Management Plan (TIMP):**

Guidelines will be issued for TIMP approval as explained under Component I

##### **2. Procurement policy, plan & strategy:**

Annual procurement plan for the year 2007 – 08 will be prepared as per the approved 18 months procurement plan based on the procurement manual of the project for all the goods, works and services proposed in this financial year. Procurement officers will be placed in each district and trained by ASCI on procurement procedures connected with the project. Copy of the plan is enclosed in Annexure I

##### **3. Monitoring and Evaluation:**

Services of an external M&E agency will be procured as per the procurement norms and requirements enunciated in PIP for different M&E events. The contract will be finalised by the August and the Baseline /survey will be grounded immediately. External agency will be responsible for conducting baseline survey concurrent monitoring, longitudinal study, midterm review, annual evaluation and project-end evaluation. Baseline survey report will be completed in October 2007. Concurrent monitoring and longitudinal study will be initiated on the sample tanks as discussed in PIP. 1<sup>st</sup> concurrent monitoring report will also be completed during this financial year i.e by March 2008. MIS for the project to capture the input-output monitoring will be designed, installed and commissioned for analysis of outputs in relation to the key performance indicators reflected in the concurrent monitoring. Services of an external agency will be procured for design of Project MIS, installation and training of the staff. The process begins in August 2007 following the procurement procedure laid out in procurement manual. Meanwhile, PMU will develop the database reflecting the targets at tank, SO level, DPU and PMU level. Monthly monitoring of the progress of physical and financial inputs and outputs will be undertaken

##### **4. Project Disclosure Strategy:**

Web site will be developed and launched for the project providing all the information regarding the project related to status of tanks hydrological assessment, tank selection, TIMPs, guidelines, day to day circulars and implementation. The officials designated as part of the Right to Information Act by the Government will also address the issues related to the project as per the existing norms.

## **5. Financial Management:**

The DPD will prepare consolidated year wise annual action plan of each district, depending upon the phase of each tank and fund requirements for the activities under the phase. Such plans will be further aggregated at state level by PMU and indicated for the budget requirement as a separate Head of Account under Commissioner, CAD. A separate head of account for the project has been introduced by state government which would be operated by Commissioner (CAD). The budget provision under this head of account would be both for the 75% of State government covering World Bank loan part and 25% Government of India's grant as mentioned in PIP. Necessary guidelines will be issued and the procurement/finance managers will be trained for effective planning and for smooth and timely release of funds. The A.P Finance Department as a special arrangement for implementation of this project has permitted withdrawal of funds as Advances through A.C.Bills for expenditure under components I, II and III. The District Units are allowed to draw up to Rs.3,00,000/- and the PMU up to 10.00 lakhs in one instance through AC bill and are required to render account for the latest expenditure before preparing the next A.C.Bill. The A.C Bill will not be used for recurrent commitments like staff salaries or consultant remuneration etc.,

The funds will be released through LOC system to concerned DPDs for all the works under the project as per the action plan as enunciated in GO MS No. 231. The DPD being the Drawing and Disbursing Officer at district level would present the work bills of component II to the concerned PAOs and disburse to contractors. For WUA implemented works, an advance up to 40 % of the cost of the work will be provided, if required, in installments to WUA to be deposited in the works account by the District Project Director for facilitating WUA to start work as envisaged in the APFMIS Act. In this connection, it is proposed to train works sub-committee as well as Finance sub-committee members of WUAs. The training modules covers execution of works and quality control aspects as well as recording measurements in the M-Book and financial management including Book keeping. These training are proposed to be taken up from September 2007 onwards and completed by October 2007 so as to enable them to ground the works from November 2007. On completion of the work and check measured by the DPU, balance amount will be released by adjusting the advance drawn in the final Bill.

Bills for all the works carried out by various line departments will be paid by PAO to the concerned department routed through DPD. For all other works under components I, III and IV, DPD will use the funds provided through AC Bills and subsequently the accounts adjusted by PAO.

**Reimbursement claims :** The World Bank reimburses the expenditure incurred under 4 components @ 90% of the eligible expenditure as per the Cr /Loan agreement signed on 08/06/2007. The reimbursement claims for the expenditure incurred from 08/06/2006 to 07/06/2007 under retroactive financing will be preferred by the Finance PMU Dept to the Govt. of India.

**Reconciliation of Expenditure:** The expenditure incurred at District level and the State level will be reconciled monthly with the PAOs. The Reconciliation in respect of audit certificates will be done by the PMU with the concerned PAOs for issuing audit certificate by the A.G.A.P.

**Audit:** The Annual statutory audit of the project will be conducted by the State Accountant General A.G.A.P as per the normal practice of the state Government, for issuing audit certificate to the World Bank.

The Budget for 2007-08 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.

**Annexure - I**

**Procurement Plan  
April 1, 2007 - March 31, 2008**



# **Procurement Plan**

## **I. GENERAL**

### 1. Project information:

Country : India  
Borrower : GoAP  
Project Name : Andhra Pradesh Community Based Tank Management Project  
Loan /Credit No. : Loan No.4857-IN&IDA Credit No.4291-IN.  
Project Implementing Agency (PIA) : Special Unit under CADA in the I & CAD Deptt. GoAP.

Bank's approval Date of the Procurement Plan

[Original] : ----- 2007

[Revision 1] :

2. Date of General Procurement Notice TO BE FILLED IN

3. Period Covered by this procurement plan : April 2007 to March 2008

## **II. Goods and Works and non-consulting services:**

### **1. Procurement Methods and Prior Review Threshold:**

- a) Goods estimated to cost US\$500,000 or more per contract and works estimated to cost US\$10,000,000 or more per contract will be procured following ICB procedures as per Section II of the Procurement Guidelines. Goods estimated to cost US\$50,000 or more but less than US\$500,000 per contract and works estimated to cost US\$50,000 or more but less than US\$10,000,000 per contract may be procured following NCB procedures in accordance with paragraph 3.3 and 3.4 of the Guidelines
- b) Goods and works estimated to cost less than US\$50,000 per contract may be procured following Shopping procedures in accordance with paragraph 3.5 of the Guidelines
- c) Goods and works which meet the requirement of Paragraph 3.6 of the Bank Guidelines may be procured following Direct Contracting Procedures.
- d) Works estimated to cost less than \$15000 per contract may be procured following Community contracting Procedures in accordance with paragraph 3.17 of the guideline.

- e) Procurement Decisions subject to Prior Review by the Bank as stated in Appendix 1 to the Guidelines for Procurement.

	Procurement Method	Prior Review Threshold	Comments
1	ICB (Goods)	All	
2	NCB (Goods)	First contract irrespective of the value	All other contracts will be subject to Post Review
3	ICB (Works)	All contracts	
4	NCB (Works)	First contract irrespective of the value and subsequent contract above \$1,000,000	All other contracts will be subject to Post Review
5	Shopping		All shopping contracts will be subject to post review
6	Community Contracting	First Contract irrespective of the value for Goods and Works each	
7	Direct contracting (Goods)	All contracts above \$10,000	All other contracts will be subject to Post Review
8.	Force Account	All contracts with prior concurrence	

2 **Procurement Packages with Methods and Time Schedule**

Procurement Plan for Works and Goods is attached at Annexure-1A and Annexure -1B respectively.

**III. Selection of Consultants**

**1. Selection Methods and Prior Review Threshold:**

- a) Consultancy Services will be procured following Least Cost Selection, CQ, Single Source, QBS and QCBS methods in accordance with the Bank's Guidelines. Contracts estimated to cost USD 100,000 and below, may be procured following CQ method of selection in accordance with the Consultant Guidelines. The services of individual consultants will be procured in accordance with Section V of Bank's Guidelines.
- b) Selection decisions subject to Prior Review by Bank as stated in Appendix 1 to the Guidelines Selection and Employment of Consultants

	<b>Selection Method</b>	<b>Prior Review Threshold</b>	<b>Comments</b>
1.	Competitive Methods (Firms)	Contracts estimated to cost USD 100,000 or more	All other contracts will be subject to Post Review
2	Single Source (Firms).	Contracts estimated to cost USD 50,000 or more	All other contracts will be subject to Post Review
3	Individual consultants	Contracts estimated to cost USD 50,000 or more	All other contracts will be subject to Post Review

2. **Short list comprising entirely of national consultants:** Short list of consultants for services, estimated to cost less than \$USD 500,000 equivalent per contract, may comprise entirely of national consultants in accordance with the provisions of paragraph 2.7 of the Consultant Guidelines.
3. **Procurement Plan for Consultancies and Capacity Building is attached at Annexure-2 and 2A.**

**IV. Implementing Agency Capacity Building Activities with Time Schedule**

1. **The agreed Capacity Building Activities are listed below with the agreed time schedule**

<b>No.</b>	<b>Expected outcome/ Activity Description</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Comments</b>
1.	Training on contract management aspects for all staff of PMU/DPU associated with procurement activities	<b>X</b>		
2	Staff from Contracts department and Finance department dealing with procurement who have not undergone procurement training will be deputed to ASCI, Hyderabad or NIFM, Faridabad for training on procurement under World Bank funded Procurement	<b>X</b>	<b>X</b>	
3	Staff who have earlier received procurement training will be deputed to ASCI, Hyderabad or .NIFM, Faridabad for a refresher course		<b>X</b>	

Annual Procurement Plan (2007-08) for Works for APCBTMP														
S. No	Destination of works	Description of Works	No of Contracts	Unit Cost (in lakhs)	Estimated Cost (in lakhs Rs.)	method of procurement*	Design/investigation completed (date)	Estimate preparation and sanction (date)	preparation of Bid Document	Banks No objection to bidding document (Date)	invitation (date)	opening on (Date)	Contract award decided (Date)	Completion period
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
<b>Component 2: Tank system Improvement</b>														
<b>Phase I: 500 tanks</b>														
1	11 districts	Tank civil works	500		9665.12	NCB/Shoping/CC	15-07-07	H+30 days	I+15 days		J+15 days	L+30 days	M+30 days	N+30 months
2	11 districts	Piezometer	100	0.5	50	NCB	30-Jun-07	H+15 days	I+15 Days		J+15 days	L+30 Days	M+30 days	N+1 months
<b>Component III: Livelihood Support Services</b>														
<b>Phase I: 500 tanks</b>														
1	11 districts	NADEP pits	500	0.02	10	CC	As and where required							
2	11 districts	Vermicompost Pits	500	0.03	15	CC	As and where required							
3	11 districts	Site preparation and nursery raising	1	.050/ha.	300	Force Account								
		<b>Total Cost</b>			<b>10040.12</b>									
CC-Community Contracting														
Note:All tank civil works above \$50,000 will be NCB														
WUA execution of works will be within the limit of Rs 5 lakhs per Tank														
First NCB/Community contracting document for tank civil work will have prior review														

Annual Procurement Plan (2007-08) for Goods for APCBTMP															
Phase	SL No	Package No.	Description of Goods	No of Contracts	Unit Cost	Estimated Cost (in Lakhs)	Methods of Procurement	Design/Investigation completed (Date)	Estimate preparation and sanction (date)	preparation of Bid Document	Banks No objection to bidding document	Bids		Contract award decided (Date)	Completion period
												Invitation (Date)	Opeining (Date)		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
<b>Component 1: Strengthening Community Based institutions</b>															
			<b>TIMP Preparation</b>												
	1		WUA stationery for 500 tanks	LS		1	Shopping	As and when required throughout the period							
	2		PRA Stationery for 500 tanks	LS		5	Shopping	As and when required throughout the period							
	3		TIMP Document for 500 tanks	LS		25	Shopping	As and when required throughout the period							
	4		Training material for 3000 tanks	LS		500	Shopping	As and when required throughout the period							
<b>Component II: Tank System Improvement</b>															
	1		District level QC labs	5	20	100	NCB*/Shopping	30-Jun-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	2		Engineering Survey Equipment	11	5	55	Shopping	15-Apr-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	3		GMIS software	11	3	33	Shopping	30-Jun-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	4		AWLR	100	1	100	ICB	30-Jun-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	5		Upgradation of State GW Data Centre	1		290	NCB	30-Jun-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	6		Upgradation of District GW Data Centre	15		237	NCB	30-Jun-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	7		Upgradation of 6 labs	6		200	Shopping	30-Jun-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	8		Measuring devices, water level indicators etc.	7	Ls	140	Shopping/NCB	15-09-07	H+30 days	I+15 days		J+15 days	L+30 days	M+30 days	O+30 days
<b>Component III: Livelihood Support Services</b>															
	1		SRI implements	15	Ls	8.75	Shopping	30-Sep-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	2		WUA level implements			50	Shopping	30-Sep-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	3		Ram lamb Units	15	Ls	60	DC								
	4		Breed Improvement equipments	15	Ls	62	Shopping	30-Sep-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	5		Venture capital for milk route expansion		Ls	25	Shopping	30-Dec-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	6		Computers <sup>1</sup>	15	Ls	30	Shopping/Rate	30-Mar-08	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	7		Printing stationary for computers	15	Ls	3	Shopping	30-Mar-08	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	8		Village collection center equipment	15	Ls	20	Shopping	30-Mar-08	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	9		Cluster level collection center equipment	15	Ls	24	Shopping	30-Mar-08	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
	10		Fingerlings to FCS <sup>2</sup>	4000 ha.	Ls	60	DC								
	11		Ice boxes to fisherwomen	15	Ls	1.5	Shopping	30-Dec-07	I+15 days	J+15 Days		K+15 days	M+30 Days	N+30 days	O+30 days
<b>Component IV: Project Management</b>															
	1		Vehicles												
			PMU	2	8	16	Rate Contract	30-Jun-07	I+15 days	J+15 Days		K+15 Days	M+30 Days	N+30 Days	O+30 days
			DPU	11	7	77	Rate Contract	30-Jun-07	I+15 days	J+15 Days		K+15 Days	M+30 Days	N+30 Days	O+30 days
	2		Office Establishment (Computers, Xerox and Furniture)												
			PMU	1	25	25	Rate Contract	30-Apr-07	I+15 days	J+15 Days		K+15 Days	M+30 Days	N+30 Days	O+30 days
			DPU	11	7.5	82.5	Rate Contract	30-Apr-07	I+15 days	J+15 Days		K+15 Days	M+30 Days	N+30 Days	O+30 days
<b>Total Cost</b>						<b>2230.75</b>									
1: Orders for computers will be placed at districts with AMC and individual contract value would not exceed US\$ 50,000															
2: Fingerlings and Ram Lambs are procured at different point of time and at different districts and each contract not exceeding Rs. 5 lakhs															
3.* Depending upon the value of requirement of each District Some of the packages may be NCB															
4. Value of Each contract under shopping procedure will not exceed Rs. 22.5 lakhs															



Annual Procurement Plan (2007-08) for Training and Capacity Building for APCBTMP								
Phase	SL No	Package No.	Description of Services	Estimated Cost (in Lakh Rs.)	Methods of Selection @	Advertising for Short listing (Date)	Shortlist to be Finalised (Date)	Initiation period
A	B	C	D	G	H	I	J	K
Most of the training and capacity building exercises will be carried out by the project through project staff and line department with resource persons from outside wherever required. The training programmes can be outsourced to other organisations upon availability of a suitable organisation								
The cost of workshop and training is excluding project staff cost and allowances								
<b>Component 1: Institutional Strengthening</b>								
	1		Training for S.Os, WUAs and Project Staff	162.8	Single Source/CQ			Apr-07
<b>Component 2: Tank system Improvement</b>								
	1		Training for groundwater users and GWD staff	57.5	Single Source/CQ			Oct-07
<b>Component III: Livelihood Support Services</b>								
<b>Capacity Building</b>								
	1		Capacity building in Agriculture, horticulture, Animal Husbandry, Foreshore Plantation, Agribusiness marketing and Market information	122.35	Single Source/CQ			
<b>Component IV: Project Management</b>								
	1		Capacity Building for M & E staff	5	CQ	15/4/2007	I+15 Days	Aug-07
	2		Staff training (including international)	40	SS	As and when identified		
<b>Total Cost</b>				<b>387.65</b>				
*: Several international Study Tour/training during the project period are envisaged. This will require Bank's prior clearance								
Value of each training/demonstration/groundwater management/capacity building activity shall not exceed Rs. 50,000 except project staff training which shall be less than 3 lakhs								
Cost of demonstration carried out by In-house agencies shall be claimed under SoEs								

## Annexure II

## APCBTMP - Annual Action Plan for the year 2007-08

S. No	Activity	UNITS (Phy)	Physical Quantities in Nos.													Total Cost in Lakhs (Rs)
			2007-08	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
			Phy (No.)													
<b>COMPONENT - I</b>																
<b>A</b>	<b>Institution Development</b>															
	MoUs with Support Organizations	Nos.	70			25		25					20			
	MoU with WUAs	Nos.	500			25	75	100	100	150	50					
	Approval of TIMPs	No.	500				25	25	100	150	150	50				
<b>B</b>	<b>Capacity Building</b>															
	Training of Staff															
	SO	No.	210			75		75				60				
	DPU & PMU	No.	150	50			50	50								
	Line Depts	No.	90	30				30	30							
	Trainings for strengthening WUA	No	500	25			25	50	100	100	100	100				
	Paraworkers trained	No	1500	75			75	150	300	300	300	300			760.00	
<b>COMPONENT - II</b>																
<b>A</b>	<b>Tank System Improvement</b>															
	HA and Selection of tanks	No	1500	50	100	100	100	150	150	150	150	150	150	150	100	
	Initiation of works (WUA)	No. of Tanks	500					25	50	50	100	125	150			
	Initiating Tendered works	No. of Tanks	500						25	75	100	150	150			
<b>B</b>	<b>Groundwater Interventions</b>															
	Drilling of piezometers	No	100							20	30	50				
	Installation of AWLRs	No	100										50	50		
	Installation of PHM equipment	No. of Tanks	200						20	20	20	40	50	50		
	Aquifer performance test	No.	38									10	14	14		
	Training to groundwater users	No. of Tanks	200							20	20	20	40	50	50	
	Groundwater users trained	No.	6000							600	600	600	1200	1500	1500	
															2450.00	
<b>COMPONENT - III</b>																
	<b>Agriculture Livelihood Support services</b>															
<b>A</b>	<b>Agri- extension</b>															
	<b>Demonstrations</b>															
	Technology demonstrations	No. of tanks	550						125				300	125		
	Farmers trained	No.	11000						2500				6000	2500		
	Exposure visits to farmers	No.	60									30	30			
	<b>Adoption of improved techniques</b>															
	Kisan melas (including animal health camps)	No.	550					50	100	150	100	100		50		
<b>B</b>	<b>Animal husbandry</b>															
	Training to new Gopalmitras	No.	75					45	30							
	Refresher training to existing Gopalmitras	No.	175				45	45	45	40						





### Annexure III

#### Projected targets for Six monthly Progress Physical Monitoring Indicators for the year 2007-08

Sl.No.	Indicator	Unit	Target for Apr 07 - Sep 07	Target for project to date	Target for Sep 07 - Mar 08	Target for project to date
<b>Component A</b>						
1	WUAs trained	Number	400	400	100	500
2	Staff trained	Number by types				
	DPU & PMU	Number	150	150	0	150
3	Community paraworkers trained	Number	500	500	1000	1500
4	SOs trained	Number	70	70	0	70
5	TIMPs prepared	Number	100	100	400	500
<b>Component B</b>						
6	Tanks in identification/pre planning/ planning stage	Number	300	300	200	500
7	CCA of tanks in identification/ pre planning/planning stage	ha				
8	Tanks in implementation stage	Number	150	150	350	500
9	CCA of tanks in implementation stage	ha				
10	Tanks in post implementation stage	Number	0	0	0	0
11	CCA of Tanks in post implementation stage	ha	0	0	0	0
12	Functional Groundwater user groups	Number				
<b>Component C</b>						
13	Agriculture/Horticulture demonstrations	Number by types	125	125	425	550
14	Farmers trained	Number by types	2500	2500	8500	11000
15	Farmer Exposure visits	Number by types	0	0	30	30
16	New Gopala Mitras trained	Number	75	75	0	75
17	Exisiting Gopala mitras trained	Number	135	135	40	175
18	Ram Lamb rearing units	Number	0	0	0	0
19	Fisherfolk trained	Number by types	450	450	0	450
20	Departmental staff trained	Number by types	90	90	0	90
21	Area raised under foreshore plantation	Ha	50	50	0	50
22	Tanks covered under foreshore plantations	Number	10	10	0	10
23	Market linkages/ Partnerships established for farmer groups	Number	0	0	0	0
24	Farmer groups availaing accessing and Agribusiness fund	Number	0	0	0	0
25	Tribal Farmer groups availaing accessing Marketing and Agribusiness fund	Number	0	0	0	0
26	Women groups availaing accessing Marketing and Agribusiness fund	Number	0	0	0	0
<b>Component D</b>						
	Stafig in PMU	Number by Posts	10	10	0	10
	Staffing in DPU	Number by Posts	90	90	0	90

**Andhra Pradesh Community Based Tank Management Project**  
**Financial Report as Part of Six Monthly Project Report**

Annexure - IV

S.No	Expenditure by Component	Budget Provision (Rs. In Lakhs)					Expenditure		Variance	
		Qrt-1	Qrt-2	Qrt-3	Qrt-4	For the Year	Current Qrt	Cumulative for the year	Qrt	FY
<b>I</b>	<b>Institutional Strengthening</b>	100	100	250	310	760				
<b>II</b>	<b>Minor Irrigation Systems Improvements</b>									
(a)	Tank Systems Improvements		250	350	1400	2000				
(b)	Participatory Groundwater Management		25	125	300	450				
<b>III</b>	<b>Agricultural Livelihoods Support Services</b>									
(a)	Agriculture and Horticulture		40	120	220	380				
(b)	Livestock		45	50	105	200				
(c)	Fisheries		36	84	20	140				
(d)	Foreshore Plantations		30	25	75	130				
(e)	Agri-Business and Marketing			75	165	240				
<b>IV</b>	<b>Project Management</b>	172	290	330	338	1130				
	<b>Grand Total</b>	<b>272</b>	<b>816</b>	<b>1409</b>	<b>2933</b>	<b>5430</b>				