

Annual Report: 2010-11

Karnataka Community Based Tank Management

Jala Samvardhane Yojana Sangha

Introduction:

Karnataka Government has taken up the project of rejuvenation of irrigation tanks through Karnataka Community Based Tank Management Project (KCBTMP) with World Bank assistance. This project is totally implemented through community participation. The capacity building to these communities is being done through trainings. The Integrated Tank Development Plan (ITDP) are prepared by the communities through Participatory Rural Appraisals (PRA). The necessary amount required for implementation will be released to the Tank User Group's (TUG) formed by the communities. The TUGs are fully responsible for the implementation of the project. The Cluster Facilitation Team (CFT) and the District Project Unit (DPU) guide these TUGs doing of the implementation of works. The project has three phases namely (i) Ongoing Project (2005 tanks), (ii) Ongoing Extended Project (694 tanks) under Phase-1 and (iii) Phase-II Additional Financing Project (1224 tanks).

Aim of the Project:

The main aim of the project is to improve the tanks by the formation of sustainable TUGs and to improve the financial & social status of the community.

Selection of taluks under the Project:

The taluks are selected for its rejuvenation and improvements based on the percentage of BPL, the population of SC/ST, small & marginal farmers, landless, women literacy, capacity of tanks and other ground realities in that area. The tanks are selected for integrated development of the tank. As the community participation in the project is a new concept this project is considered as pilot project.

Formation of statutory body for the project:

The Hon'ble Minister for Minor Irrigation Department, Government of Karnataka heads the Governing Council of JSYS and the Additional Chief Secretary and Development Commissioner, Government of Karnataka heads the Executive Committee as President. The project is being implemented in the state level with the Executive Director as its head and District Commissioners are the presidents at district level implementation is done with the supervision of District Project Co-ordinators at DPU level.

Expectations of the Project:

1. Formation of TUGs through community participations and its continuation.
2. Meaningful participation of persons belonging to all caste and communities.
3. Increasing agricultural produces.
4. Strengthening of communities both socially and financially.
5. Mobilization of resources for the future maintenance of tanks.

Phase – I Ongoing Project:

This project has come into effect on 08.07.2002. 2005 tanks spread over 34 taluks of 10 districts divided over 6 agro climate zones have been taken up under this project. 72000 Ha of atchkat was proposed to be developed from this project. The project has got unique intention of planning, improving and implementation of project through the community participation 1829 tanks have been taken up for improvements under this project. This project should have been completed by 30.01.2009 due to certain balance works in the already taken up 1829 tanks and due to improvements of left over 176 tanks the project's closing date extended up to 31.01.2012 by the World Bank and State Government. The tank works in 176 tanks are started from October 2009. This project is proposed to be completed with an expenditure of Rs.330.69 crores against the budget of Rs.508.63 crores. Out of 1829 tanks taken up under Phase I of ongoing project 85 tanks were dropped for various reasons. So far 1583 tanks have been already handed over and the handing over of balance tanks is under process.

Ongoing Extended Project under Phase-I:

It was planned to improve 694 tanks in the Phase-I in the project districts spread over 24 taluks out of the savings of Rs. 177.94 crores in Phase-1 project during the year 2009. The atchkat of these 694 tanks is 27.270 Ha.

Against the target of on going extended 694 tanks and 176 tanks of on going project as on 2nd July 2011 the number of tanks tackled were 841, with a total command area of 51,308 Ha. The implementation of these tanks is under progress and so far the amount spent is Rs. 58.01 crores against planned ITDP cost of 196.99 crores. However all the works are proposed to be completed by end of December 2011.

Phase-II Additional Financing Project:

1224 tanks spread over 37 taluks of 8 districts have been selected and planned to develop 53000Ha of existing atchkat through additional financial assistance of Rs 306.98 crores from World Bank. All the above three phases of the project were planned to be completed by 31-12-2012. All the above tanks are in various stage of completion and the total expenditure up to 8th July is Rs 115.78 crores.

Project Implementation System:

Phase-I of the project:

First phase project consisting of 10 district with 9 DPU's (One DPU for Bellary and Koppal district at Hospet) was established and was headed by DPC. DPUs have been assigned the task of implementation and administration of the project.

Project implementation, of overall supervision and responsibility lies with the SPU. In SPU there are various wings like Technical, Social, Financial, Administrative, NGO, Agricultural, Fishery, Environmental, Monitoring & Learning, Livelihood & Marketing. These wings guide the DPU in overall implementation.

In phase-I out of targeted 2005 tanks 1829 tanks have been taken up and out of this 85 tanks were dropped for various reasons. So far 1583 tanks have been already handed over and the handing over of balance tanks is under process.

Technical Activities:

Topographic survey agencies were engaged for conducting the topographic survey of the tank systems and to facilitated engineers for the preparation of the estimates in all 2014 tank systems were got surveyed and ITDPs are prepared and got appraised and are being implemented.

Quality Control Test:

JSYS has taken up rejuvenation of around 2094 tanks in the II phase, out of these rejuvenation of 1890 tanks is under progress. M/s EGIS India Private Ltd, Faridabad has been entrusted with the supervision of quality of works of these tanks since March 2010.

Rehabilitation and Resettlement:

The project has a well defined Resettlement and Rehabilitation policy and Resettlement Action Plan. From the 3,721 ITDPs appraised till date, the information from 3,721 has been analyzed. Totally 1,396 tanks had encroachments, as established by TUG level consultations and revenue surveys. In these tanks 7,642 persons have encroached 2271.78 ha., of the land, out of which 2025.19 ha., was estimated to be required for project interventions. As per the consultation process of the project 6882 encroachers have voluntarily surrendered the required lands (2025.19 ha.) except for two cases in Haveri and Bidar district where the issue was resolved in the court of Law. As per the project R&R policy 714 families were found to be project affected and 528 RAPs have been supported by the project at a cost of Rs.1.77 Crores.

Tribal Development Plan:

Out of 3126 Tank Management Institutions, there were 12,01,887 members, out of which 2,12,521 belongs to SC and 1,33,690 belongs to ST and out of 51995 Executive Committee Members 10,062 were SC and 6,794 were STs. and out of 9378 Chief Executive of Tank Management Institutions, 1303 were SC and 1008 belongs to STs.

Income Generating Activity:

In Ongoing Project, Income Generating Activity has been implemented in 1425 TUGs with an investment Rs..1433.59 lakhs which was supplemented with Rs. 1292.46 lakhs by the commercial Banks. In addition a sum of Rs. 345.87 lakhs was invested by SHGs/members. The total amount invested in the IG activity is Rs. 3076.98 lakhs covering 65158 beneficiaries.

In Ongoing Extended Project, Income Generating Activity has been implemented in 762 TUGs with an investment Rs..850.25 lakhs which was supplemented with Rs. 138.06 lakhs by the commercial Banks. In addition a sum of Rs. 277.13 lakhs was invested by SHGs/members. The total amount invested in the IG activity is Rs.1132.97 lakhs covering 17393 beneficiaries.

In Additional Financing Project, Income Generating Activity has been implemented in 879 TUGs with an investment Rs.978.78 lakhs which was supplemented with Rs. 15.65 lakhs by the commercial Banks. In addition a sum of Rs. 419.62 lakhs was invested by SHGs/members. The total amount invested in the IG activity is Rs. 1414.05 lakhs covering 16099 beneficiaries.

Gender Action Plan:

The Project has specific strategies to mainstream Gender concern in all the activities and at all levels of the institutional structures to ensure benefit sharing among women and men and to create opportunity for women to enhance their skill, knowledge and ability.

In Ongoing Project training has been imparted to 5,73,630 beneficiaries of which 2,53,963 were women. Of the 5,58,322 members in the General body, 2,66,334 members are women.

In case of Ongoing Extended Project out of 2,90,369 members in the General body 1,43,727 are held by women, which is 49.49%. Out of 11,327 members in EC, 5,359 are women which work out of 47.31%.

In Additional Finance project, out of 3,13,512 members in the General Body 1,55,691 are held by women, which is 49.66% .Out of 15,719 members in the ECs 7,402 are women, which work out to 47.08%.

Environment Management plan (EMP) (2010-11)

Environment Management plan is one of the safe guard policy of the project which is mainstreamed and institutionalised in to the ITDPS. The following interventions under this component have been implemented. About 7.84 lakh saplings are planted in 636 tank Foreshores and about 14.22 lakh saplings are supplied to TUG farmers for planting in farm land. About 1843 Kgs of seeds are sown on 313 tanks boundary trench mounds during the year. Farmers are encouraged to use tank silt to an extent of about 1.4 lakh cubic meter for farming in about 484 tanks. Various Environmental awareness programmes have been organised to JSYS staff as well as TUG members. Tours were also conducted on Environmental aspect within and also outside district. On-farm Demonstrations on integrated pest management were also conducted throughout project area to an extent of 83 units to educate farming community on using Environment friendly fertilizers and pesticides. like: 1) vermi-compost 2) Rhizobium 3) Azotobacter 4) Azo-spirillum 5) Vam 6) Trichoderma 7) Pseudomonas 8) PSB etc. Vermicomposting has been promoted particularly in additional financing project areas to produce organic manure. 176 vermi-compost units are supplied to interested and progressive TUG farmers during the year.

Agriculture Development Activities:

On-farm demonstrations: The over all average progress achieved under OFDs is 94%, viz., Water Management Demonstrations (94%), Arable Crop Demonstrations (92%), Horticulture Crop Demonstrations (101%), Fodder Development Demonstrations (93%), Integrated Farming System Demonstrations (73%) and Farmers Field School (74%). The consultants have been instructed to gear up the remaining targets especially in the case of IFSD and FFS.

Training & Capacity building activities: The over all average progress achieved under this head is 53%. Viz., JSYS staff Technical Training (76%), Trainers Training (87%), Farmers and Farm women Training (61%), Districts level work shop (25%), Cluster level work shop (51%), Cluster level inter-command interactive sessions (34%) and Farmer study tours (80%). The achievement under Annual workshop and Joint Workshop is nil.

Soil Analysis: The over all average progress achieved is 69%.

The consultants have been asked to plan out properly and focus on these aspects such as training and capacity building activities/workshops and Soil Analysis to achieve the set targets in the planned time.

Creation of awareness and capacity building of the tank management institutions (TMIs) on various aspects of agriculture development in tank command areas including effective water management practice, conjunctive use of water, Integrated Nutrient Management (INM), Integrated Pest Management (IPM) etc are being carried out by the Community Based Tank Management consultancy Project University of Agricultural Sciences, Bangalore and Dharwad under the supervision of JSYS. Details are given below.

On-going Extended and Additional fiancé project during 2010-11

Sl. No	Activities	Unit	Target and Achievement during 2010 – 11								
			UAS-B			UAS-D			Total		
			Tgt.	Acmt	%Acmt	Tgt.	Acmt.	%Acmt	Tgt.	Acmt	%Acmt
1	Water Management Demonstrations	Nos.	112	102	91	46	47	102	158	149	94
2	Arable Crop Demonstrations	Nos.	112	100	89	42	41	98	154	141	92
3	Horticulture Crop Demonstrations	Nos.	89	83	93	29	36	124	118	119	101
4	Integrated Farming System Demo	Nos.	9	9	100	6	2	33	15	11	73
5	Fodder Demonstrations	Nos.	56	56	100	29	23	79	85	79	93
6	Framers Field school	Nos.	1037	745	72	254	209	82	1291	954	74

2 Training & Capacity building activities											
1	JSYS Staff Technical Training	Person	205	157	77	3	2	67	208	159	76
2	Trainers Training	Person	147	128	87	3	3	100	150	131	87
3	Farmers and Farm women Training	Batch	28	20	71	16	7	44	44	27	61
4	District Level Workshop	Batch	39	9	23	16	5	31	55	14	25
5	Cluster Level Workshop	Batch	168	81	48	47	29	62	215	110	51
6	Cluster Level Inter-command Interactive Sessions	Batch	56	21	38	12	2	17	68	23	34
7	Farmer's Study Tour	Batch	27	18	67	8	10	125	35	28	80
8	Annual Workshop	Nos.	3	0	0	0	0	0	3	0	0
9	Joint Workshop	Nos.	6	0	0	0	0	0	6	0	0
10	Soil Analysis	Tank	1336	801	60	425	406	96	1761	1207	69

Fisheries Activities :

On-Going Project :

During the year 2010-11, 172 feasible tanks have been brought under Fisheries programme by stocking 50.04 lakh numbers of Advanced/Stunted fish fingerlings. And the partial fish yield is around 110 MT (Final harvesting is in progress), with a Gross income of Rs.47.78 lakhs (Partial Income). Total 610 tanks have been implemented for Fisheries activities against the target of 600 tanks, by stocking 108 lakh numbers of fish fingerlings, and the total fish yield obtained is 630 MT, with a Gross income of Rs.152.00 lakhs. The net income from fisheries is shared between TMIs and landless beneficiaries/Fish harvesters in the ratio of (30:70). Out of 610 tanks, 75% tanks are ZP and 25% are MI tanks. The average income for beneficiary (in 6 months) is Rs.3166/-, No. of beneficiaries covered is 4800. The average Income per TUG is Rs.25,000/-.

Additional Financing:

In the Additional Financing Project during the year 2010-11, 395 feasible tanks have been covered under Fisheries promotion by stocking 55.98 lakh numbers of Advanced/Stunted fish fingerlings. And the Partial fish yield is around 103 MT (Final Harvesting is in progress), with a Gross income of Rs.40.66 lakhs (Partial Income).

Agriculture Marketing Activities:

The project envisages interaction between producers, sellers and market facilitators. Arrangements were made to bring producers and buyers as a common platform to exchange the ideas for getting competitive prices. In order to achieve this efforts are made by conducting TUG members training on Agricultural Marketing (in particular grading/storage and market intelligence); organizing buyers sellers meet; exhibitions; Besides awareness is created among farmers to access to Kissan Call Centre No.18001801551 (A farmer helpline) price prediction on weekly basis 5-10 weeks (w.e.f. Jan 2011) in advance website for important 13 commodities which covered under MSP as well as State Government floor price operation has been linked to JSYS website. Agriculture Marketing Directory providing information on various aspects both for production packages and Marketing awareness has been provided in the JSYS website.

Media and Communication Activities:-

As a measure of transparency, the physical and financial details of the project are displayed in wall painting besides RCC board near the tanks.

In order to publicize the project activities, quarterly news magazine is brought at regular intervals. The activities are also being telecast in DoorDarshan, Private Channels, Radio, Magazines and News papers.

The project Estimates and Financial Achievements:

The total cost of the project including physical and price contingencies are estimated at Rs.508.63 crores. Out of this Rs.401.86 crores (79%) is the World Bank Share, Rs.86.41 crores (17%) is the share of Government of Karnataka and the community contribution is Rs. 20.35 crores (4%).

The total expenditure since inception for Ongoing project is Rs. 350.33 crores upto March 2011 (it includes ongoing extended project expenditure is Rs 36.33 crores)

Status of Additional Financing Project:

The project being taken up with an additional finance from the World Bank and envisages covering 1224 tanks spread over 37 talukas in 8 new districts, estimated cost of Rs.306.98 crores. Additional Financing project expenditure up to March 2011 is Rs. 67.74 crores. The project Agreement was signed on 2nd November, 2007. Government of Karnataka has approved the project on 22nd November, 2007. The project commenced from 14th Jan 2008. However the project could start only during June 2009 after engaging NGOs for providing Cluster Facilitation Teams.

Appointment of NGOs for providing Cluster Facilitation Teams:

Additional Financing project has commenced functioning from June 2009 covering in 34 Talukas of 9 Districts. 46 Cluster Facilitation Teams (CFTs) and 1 District Facilitation Teams (DFTs) are in place to provide required training for capacity building of the community.

The District wise progress of Ongoing Extended Project has commenced functioning from September-09 covering in 24 Talukas of 8 Districts of Ongoing Project. 33 Cluster Facilitation Teams (CFTs) and 4 District Facilitation Teams (DFTs) are in place to provide required training for capacity building of the community.

The No of CFTs and DFTs working for both Additional Finance and Ongoing Extended Project as on 31.03.2011 is given below:

Sl.No	Project	CFTs	DFTs	Total
1	Additional Finance	37	10	47
2	Ongoing Extended	27	10	37
Total		64	20	84

Achievement of Development Objectives:

(Based on the study conducted by independent agency-CES)

- Area irrigated increased by 31%.
- Cropping intensity increased by 28%.
- Paddy cultivation decreased by 4%.
- Vegetable crop increased by 15%.
- Fish production undertaken in 506 (Fish yield 478 MT benefited 4800 persons).
- Aggregate storage capacity increased by 2.05 mcm.
- Extra months of water availability for Rabi irrigation varied from 3-5 months.
- Increased recharge to the ground water. The land use intensity has increased from 89% in the base period to 121% after the project intervention.
- 68% of the TMCs expressed satisfaction with the program.
- About 41 families per village benefited from IGA.

**Executive Director
JSYS, Bangalore.**