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INDIA
ANDHRA PRADESH
PARTICIPATORY TRIBAL DEVELOPMENT PROJECT
ASSISTED BY IFAD: IMPACT EVALUATION

TECHNICAL
AND
FINANCIAL PROPOSAL



SUBMITTED TO:
DEPARTMENT OF TRIBAL WELFARE
GOVERNMENT OF ANDHRA PRADESH
HYDERABAD

AGRICULTURAL FINANCE CORPORATION LIMITED

(Wholly Owned by the Commercial Banks)

HYDERABAD

Jointly with

TRIBAL CULTURAL RESEARCH AND TRAINING INSTITUTE

GOVERNMENT OF ANDHRA PRADESH, HYDERABAD

November, 2001

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**I
INTRODUCTION**

INDIA
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I

BACKGROUND

1.1 INTRODUCTION

1.01 In most of the developing countries, including India, tribals remain as most disadvantaged section of society in terms of poverty, illiteracy, malnutrition, poor health status and lack access to social and technical services. Tribals in Andhra Pradesh also suffer from all these disadvantages. In this regard it may be observed that the tribal households in the state are relatively well endowed with land, but the productivity of land is low and consequent incomes of these households are meager. In part this is a consequence of poor land management practices and absence of soil and moisture conservation measures and proper irrigation facilities. Other, contributory factors for low agricultural productivity of these tribals are the presence of unimproved methods of cultivation, inadequate extension support and lack of access to and purchasing power for inputs. The three main sources of income in tribal areas of the State are as follows:

- agricultural production;
- wage employment; and
- earnings from Minor Forest Produce (MFP)

1.02 As indicated above the income from agricultural production often does not meet the needs of the families in these tribal areas. Further, wage employment is embedded with lots of uncertainties and forest resources have got dwindled. All these factors have contributed for decreased household incomes of tribal families in the State. As a result, the tribals are forced to borrow from traders and money lenders at exorbitant rates of interest to meet basic requirements of households. This in turn trapped the tribals into a continuing cycle of chronic indebtedness, which frequently culminated in the loss of their land.

1.03 A review of the resource base of tribal households in Andhra Pradesh and their current level of utilization clearly indicates as follows:

- There is an urgent need for improving the agricultural productivity of tribal households through proper soil and moisture conservation measures, creation of dependable cost effective irrigation sources and crop diversification;
- Develop the livestock owned by tribal families;
- Improve access to formal credit sources for these tribal households; and
- Initiate measures for community and off farm development

1.04 In view of such a scenario with regard to tribals and their hardships in the country in general and in Andhra Pradesh in particular the development of tribals has become a necessary part of various National and State Development Plans. Such emphasis is not limited to National Governments of developing countries but also extended to International Development agencies such as World Bank (WB), and the International Fund for Agricultural Development (IFAD). The need for a shift in emphasis of various development programmes has also been felt by the Government of Andhra Pradesh (GOAP) in view of sufferings of tribals in the State. To give a proper direction to the strategy to empower tribals in Andhra Pradesh, a development department known as Tribal Welfare Department (TWD) was established as early as by in 1950's Government of Andhra Pradesh. TWD's goal is to help the most disadvantaged tribals to develop themselves by investing in their land and human potential. TWD aims to achieve this by being flexible in its approaches and in its relationships with Non-Governmental Organisations. TWD's strength lies in its ability to (a) focus constantly on main streaming tribal issues in various developmental inventions; (b) evaluate different institutions involved in tribal development; (c) identify common areas of interest with Non-Government Organisations (NGOs) to further the cause of tribals; (d) to be flexible and open in its approaches and in its relationships with Non-Governmental Organisations; e) review policy and assess project related issues; f) analyse and evaluate different informal credit mechanisms that catalyse tribal's development; and g) target opportunities both the agriculture and off-farm activity for income generation of tribals.

1.05 TWD had taken up the project entitled "Andhra Pradesh Participatory Tribal Development Project (APPTDP)" with financial assistance from IFAD. The financial requirements of TWD for carrying out various development plans for tribal areas in the state are estimated to be very high and plan allocation are found to be quite inadequate. Hence, TWD had been tapping financial resources from various multilateral funding agencies such as WB, EEC and IFAD for such developmental activities. As a part of their strategy to out source funding from various multilateral agencies

1.06 TWD has been implementing the IFAD, assisted APPTDP since 1995-96 in the sub-plan areas of ITDA Utnoor, Adilabad district, ITDA Eturnagaram, Warangal district, ITDA Bhadrachalam, Khammam district, ITDA Kotaramachandrapuram, West Godavari district and Chenchu Project Sundipenta, Kurnool district. The focusing of APPTDP is on a) Small Scale Irrigation, b) Soil and Water Conservation, c) Arable Crop Development, d) Horticulture Development, e) Livestock Development, f) Off-farm Development, g) Community Participation & Development, h) Credit, and i) Marketing, Research and Development. The project implementation of APPTDP gets terminated with effect from March 2002

1.2 BASIS FOR THE PROPOSAL

1.07 The above background in perspective both IFAD and TWD wanted that an Impact Evaluation of APPTDP assisted by IFAD be carried out during 2001-2002. Accordingly, Commissionerate of Tribal Welfare, vide their letter No. NOI(1)/2485/01 dated 5.7.2001 invited the Agricultural Finance Corporation Ltd. Hyderabad to submit a proposal for carrying out impact evaluation of APPTDP. The above cited Letter of Invitation (LOI) requested to submit the technical and financial proposals for consultancy service required for impact evaluation, which could form the basis for further negotiations. The LOI also specified that the above stated impact evaluation study may need to be undertaken by the consultant in collaboration with Tribal Cultural Research and Training Institute (TCR & TI), Hyderabad.. Hence, the officials of the Agricultural Finance Corporation Ltd., Hyderabad held detailed discussions with the researchers of TCR&TI before finalising this proposal for carrying out impact evaluation of APPTDP assisted by IFAD. Thus, The proposals are prepared on the basis of the details given in LOI and subsequent clarifications obtained from TWD and interaction between officials of AFC and the researchers of TCR&TI, Hyderabad.

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II

**FIRMS' EXPERIENCE
AND
BACKGROUND**

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II

FIRMS' EXPERIENCE
AND
BACKGROUND

THE CONTEXT OF A JOINT PROPOSAL

2.01 The evaluation studies, as has been contemplated by TWD under APPTDP, require both the collection quantitative information and judgements on processes which are qualitative in nature. The qualitative judgement on processes is critically dependent on the calibre of researchers carrying out the studies. The researchers of TCR & TI, by virtue of their long association with the development of tribals in Andhra Pradesh have gained substantial experience in assessing the qualitative impact of various development projects directed towards tribals. However, the numerical strength of researchers available with TCR & TI is limited to take up the impact assessment of APPTDP independently. Therefore, TWD invited proposals from other consulting organisations to take up the impact evaluation of APPTDP jointly with TCR & TI. Thus it is contemplated that the study on impact evaluation of APPTDP would be undertaken jointly by AFC and TCR&TI with AFC as principle consultant and TCR & TI as associate consultant. The background and experience of both AFC and TCR & TI are presented in the following paragraphs

BACKGROUND AND EXPERIENCE OF AFC

2.02. The Agricultural Finance Corporation Limited (AFC) established in 1968 with its headquarters at Mumbai has grown into one of the largest Agricultural Consultancy Organisations in India, and since 1978, it has extended its consultancy operations to International levels. As a consortium of Commercial Banks, AFC has an authorised capital of Rs.1000 million with subscribed and paid up capital of Rs.150 million, AFC's membership consists of forty five commercial / cooperative banks and development finance institutions consisting 20 public sector banks, 13 private banks, 7 foreign banks one cooperative bank and 4 development finance institutions

Board

2.03. AFC is governed by a Board of Directors under the Chairmanship of Dr.P.V. Shenoi IAS (Retd) winner of the prestigious International Norman Borlaug Award for his efforts in sustained agricultural development in the Country, former Deputy Director General ICRISAT, former Secretary Ministry of Agriculture, Government of India and Ex-member Planning Commission, Government of India. The Board of Directors includes Shri A.M. ALAM, Managing Director and 19 other Directors including Chairman, National Bank for Agriculture and Rural Development (NABARD), Chairmen and Managing Directors of 10 major nationalised and other commercial banks, three Government of India nominees, three renowned experts in the fields of agriculture, rural development and rural finance. A Standing Committee of the Board attends to policy, administration and other financial matters.

2.04. To ensure high standards in Agriculture Consultancy Services, AFC deploys professional expertise of high calibre qualified to offer the best in Irrigation and Agricultural Consultancy, when called upon to identify, formulate and/or appraise developmental projects, conduct baseline surveys and take up research studies. In recent years AFC had built up a strong team to take up consultancy assignments in the area of social sector. As a result, AFC's activities are finely tuned for present and future needs in social sector, irrigation, agriculture and allied sectors in India and abroad.

Functions

2.05. The functions of AFC cover wide range of areas of specialisation

- * Natural Resources Management
- * Identification of potential sectoral developmental projects for promoting development in different sub-sectors.
- * Technical feasibility and financial feasibility of agriculture and irrigation development projects of different components of projects.
- * Technical bench mark studies
- * Environmental Impact Assessment, Environmental Management Planning Studies

- * Resettlement and Rehabilitation Planning Studies
- * Catchment Area Treatment Studies
- * Command Area Development Studies
- * Flora, Fauna and Environmental Ecology
- * Monitoring and Evaluation of Developmental Projects
- * Project Appraisal
- * Study of Institutional Credit Flow
- * Social Forestry and Forest Based Studies
- * Irrigation and Water Management
- * Remote Sensing Applications and Resources Management
- * Socio-economic Baseline Mark Studies
- * Crop-Area and Crop Yield Assessment and Crop Moduling
- * Human Resources Development
- * Training and orientation programmes and workshops for upgrading the skills of project/programme implementation personnel.

Fields of Activities

2.06. *As a committed Organisation, the AFC's professional activities cover a wide range of fields.*

- * Natural Resources Management
- * Environmental Impact Assessment
- * Environmental Management Planning
- * Remote Sensing Applications
- * Cadastral Surveys
- * Thematic Mapping
- * Catchment area treatment
- * Watershed Development
- * Wasteland Development
- * Soil Conservation
- * Irrigation and Water Management
- * Resettlement and Rehabilitation
- * Hi-tech Agriculture
- * Infrastructure Development
- * Women Development
- * Social Sector Development
- * Human Resources Development
- * Land use and Land cover
- * Management Information System (MIS)
- * Project Planning, Monitoring and Evaluation
- * Tribal and Hilly Areas Development
- * Irrigated agriculture and on-farm development
- * Agro-based Industries
- * River Valley development

- * Nation-wide and multi-regional comprehensive land and water resources development
- * Hydrogeology
- * Techno-economic Bench Mark Surveys

2.07. For each field of activities AFC provides full range of consultancy services as shown below.

i. Reconnaissance Survey

2.08. Problem solving consultation, preliminary studies and assessment of development potentials, formulation of development concepts, development strategies and scenarios, initial project appraisal, programming of further investigations.

ii. Field Investigations

2.09. Topographic survey, Thematic mapping, geo-graphical information systems, aerial photography and mapping, hydrological and hydro-geological surveys, geophysical survey, soil survey, resources investigations, agricultural and agronomic surveys, land use and land cover survey, land classification survey, transportation survey, traffic survey, demographic survey, socio-economic survey, marketing survey.

- iii. Conduct of technical baseline surveys in social sector, irrigation, water management and agriculture;
- iv. Preparation of Master Plans, pre-feasibility and feasibility studies.

Organisation

2.10. The AFC is professionally organised to provide prompt services to its clients through its Nation-wide network of offices, covering almost in all the states in the Country, located at:

* Head Office	Mumbai
* Northern Regional Office	New Delhi
* Eastern Regional Office	Calcutta
* Western Regional Office	Mumbai
* Southern Regional Office	Bangalore

State Level Offices

* Andhra Pradesh	Hyderabad
* Tamil Nadu	Madras
* Kerala	Trivandrum
* Madhya Pradesh	Bhopal
* Orissa	Bhubaneswar

*	Gujarat	Ahmadabad
*	Rajasthan	Jaipur
*	Uttar Pradesh	Lucknow
*	Bihar	Patna
*	North-eastern States	Guwahati

Andhra Pradesh, Hyderabad

AFC- Remote Sensing Applications and
Resources Management Centre

Hyderabad

Supporting facilities

2.11. A systematic approach to technological and socio-economic problems is required in various areas of irrigation, water management, crop management, hydrogeology, etc. Such approach is best taken care of through use of modern computer technology to ensure meticulous planning, monitoring and evaluation, conducting simulation exercises, socio-economic and environmental data processing. The AFC's regional and state level offices are fully equipped with independent computer centres supported by competent technical professionals and needed software.

Remote Sensing Applications and Resources Management Centre (RSARMC)

2.12. The AFC has recently diversified its activities in the areas of remote sensing applications and resources management, digitisation and resources mapping, application of GIS in various fields including monitoring of ongoing projects, conducting technical bench mark studies, supporting the external funding, etc. and an exclusive remote sensing applications and resources management centre has started functioning at AFC, Hyderabad from the beginning of 1998 to cater to the needs of all its nationwide network of offices to provide highly technical prompt competent services to various State Governments and the Government of India. The AFC - Remote Sensing and Resources Management Centre at Hyderabad is fully equipped with needed hardware and software supportive to the growing technological needs meeting the technological demands from various developmental sectors. The AFC-RSARMC is fully equipped with the following needed hardware and software facilities.

HARDWARE

A. HARDWARE FOR REMOTE SENSING APPLICATIONS

1. IBM PC 300 PL with

Pentium II, CPU @ 266 Mhz
PCI/ISA Bus
512 KB Cache
64 MB EDO RAM

1.44 MB FDD
 4.2 GB SMART EIDE HARD DISK DRIVE
 20" SVGA Color Monitor 4 MB
 32 X CD ROM Drive
 IBM Key Board
 IBM Mouse
 10/100 MBPS Integrated Ethernet Card
 with Wake on LAN
 S3TRIO 3D AGP Integrated
 Integrated Audio
 Lotus Smart Suite License
 Windows 95 Pre-loded
 Time 10 Net Finity. voice type

2. IBM PC 300 PL with
 Pentium II, CPU @ 266 Mhz
 PCI/ISA Bus
 512 KB Cache
 64 MB EDO RAM
 1.44 MB FDD
 4.2 GB SMART EIDE HAR DISK DRIVE
 17" SVGA Color Monitor 4 MB
 32 X CD ROM Drive
 IBM Key Board
 IBM Mouse
 10/100 MBPS Integrated Etherent Card
 with Wake on LAN
 S3TRIO 3D AGP Integrated
 Integrated Audio
 Lotus Smart Suite License
 Windows 95 pre-loaded
 TME 10 Net Finity voice type

3. PC 300 PL with
 Pentium II, CPU @ 333 Mhz
 PCI/ISA Bus
 512 KB Cache
 64 MB EDO RAM
 1.44 MB FDD
 6.2 GB SMART EIDE HAR DISK DRIVE
 21" SVGA Color Monitor 4 MB
 32 X CD ROM Drive
 Key Board
 Mouse
 10/100 MBPS Integrated Etherent Card

with Wake on LAN
 S3TRIO 3D AGP Integrated
 Integrated Audio
 Lotus Smart Suite License
 Windows 95 pre-loaded
 TME 10 Net Finity voice type

4. DIGITIZER: SUMMAGRID - V
 (Summagraphics Brand)
 A0 SIZE DIGITIZER SPECS: 36" X 48"
 2500 LINES PER INCH
 CONFIGURABLE TO THE SERIAL PORT
 SERIAL PORT CONNECTING CABLE
 POWER ADOPTER
 S/W CONFIGURATION
 DRIVER FLOPPY
 USER MANNUAL
 DIGITIZER TEST SOFTWARE
 0.005 INCH ACCURACY

5. DIGITIZER STAND:
 DIGITIZER STAND WITH WHEELERS
 MS TUBE SKELETON
 WHEELERS WITH STOPPERS
 SLANT/ERECT LEVER OPERATIONS
 MOUSE REST STATION
 FULLY PORTABLE

6. A0 SIZE COLOUR JET PLOTTER
7. A4 SIZE COLOUR UMAX SCANNER
8. HP CD WRITTER - EXTERNAL

- B. OTHER HARDWARE
 1. Pentiums -Three
 Pentium , CPU @ 166 Mhz Mhz
 PCI/ISA Bus
 512 KB Cache
 32 MB EDO RAM
 1 44 MB FDD
 2.2 GB SMART EIDE HARDISK DRIVE
 14" SVGA Color Monitor 2 MB
 32 X CD ROM Drive
 Key Board
 Mouse

2. PC 486 - Three
3. HP Laser Jet - One
4. HP Desk Jet - One

II. SOFTWARE

A. SOFTWARE FOR REMOTE SENSING APPLICATIONS

1. PC-Arc/Info ver 3.5.1 Consisting of
 Starterkit
 Arcedit
 Arcplot
 Data conversion
 Overlay
 Network module
2. PC-Arc View 3.0s with Avenue
3. ERDAS Imagine Advantages 8.3.1
 (including imagine Essentials 8.3.1)
4. Arc DAK (Arc Info's Data Automation Kit)
 Consists of following Arc Info's Modules:
 * Starter Kit
 * Arc Edit
 * Data Conversion

B. OTHER SOFTWARE SUPPORT

1. Windows 95 and Windows 98
2. MS Office
3. Word Perfect for Windows
4. Photo Shop Delux
5. Corel Draw

2.13. The AFC has also entered into general memorandum of understanding with National Remote Sensing Agency (NRSA), Hyderabad for closely associating with need based and value based studies in the areas of irrigation, water management, agriculture, forestry, crop area estimations, etc.

Staff Support and Team Composition

2.14. The AFC has large number of experts of high calibre who are fully aware of the agro-climatic conditions, physiography, geology and socio-economic aspects of the State as well as the tribal areas in the state Area and most of the members are fully conversant

with local language Telugu and had long years of experience in the respective areas of specialisation. By virtue of their having held high positions in the State as well as adjoining states they are considered eminently suitable specialists for the present impact evaluation study. The AFC had about three decades of experience in the Country and one and half decades experience in the State of Andhra Pradesh and formulated large number of projects and studies in the areas of social sector, irrigation development, water management, command area development, catchment area treatment, soil surveys, cadastral surveys, topographic surveys, watershed development, resettlement and rehabilitation and also utilised the benefits of remote sensing data in irrigation and agriculture development. The AFC constitutes the following Specialists for undertaking various components of the impact evaluation study. Besides these Team of Specialists large number of supporting staff namely Field Technical Supervisors, Technical Investigators, Socio-economic Supervisors, Socio-Economic Investigators, Systems Officer, Systems Analysts, Computer Programmers, etc. both at the field level and Headquarters level (AFC Hyderabad). The experience and background of the Specialists proposed to be involved in the present impact evaluation study are presented in brief in Chapter-V.

Sl. No	Name	Position	Task Assignment
1	Dr.D.V. Ramana	Project Director	Overall Co-ordination of the Study and guiding all the team member at various stages.
2	Dr. D. Appa Rao	Agricultural Engineer / Off-Farm Activities Expert	Assess the impact of soil and moisture conservation measures on the production and productivity of agricultural crops in the project area. Also study the effect of off-farm activities undertaken in the project area.
3	Mr Ch. Venkateswara Rao	Irrigation Expert	Study the impact of small scale irrigation on project beneficiaries. Also undertaken technical evaluation of structures created under the project.
4	Mr.U.M. Lal	Agriculturist and Environmental Expert	Study the impact of various components of the project on development of agriculture in project area.
5	Prof. S.P. Seetharaman	SHG Expert	Study the role and affectiveness of SHG in the project in the project area.
6	Mr Shareefuddin Ahmed	Horticulture Expert	Evaluate the impact of horticulture programmes undertaken in the project area.
7	Dr A.Y. Krishna	Livestock Expert	Study the impact of livestock development programme on project beneficiaries

Sl. No	Name	Position	Task Assignment
8	Mr.M. Dharma Reddy	Micro-credit / Evaluation Expert	Study the impact of Micro-credit on project beneficiaries
9	Ms. K. Padma	Systems Officer	Provide systems analysis support to all team members.
10	Mr. P. Lakshmi Narayana	Anthropologist	Study the social impact of the project and analyse the community participation aspect of the project.
11	Mr. P. Sai Prasad Rao	PRA Expert	Assess the qualitative benefits of the project through DRA exercise.
12	Mr. K. Chandra Raju	Process Evaluation Expert	Evaluation the process of project implementation at various stages.

International Consultancy

2.15. AFC has been engaged in international consultancy since 1978 in project formulation and implementation. AFC is registered with the International Bank for Reconstruction and Development (World Bank), International Fund for Agricultural Development (IFAD), Food and Agricultural Organisation of the United Nations (FAO), Asian Development Bank (ADB), African Development Bank (AFDB), Islamic Development Bank (IDB) and the Commonwealth Secretariat. In the developing countries, AFC provides bilateral agencies as well as private companies consultancy services for identification, formulation and appraisal of projects.

2.16. The countries in which AFC has accepted assignments include Bangladesh, Cambodia, Dominica, DPR Korea, Egypt, Indonesia, Iran, Kenya, Laos, Malaysia, Maldives, Mozambique, Myanmar, Nepal, Nigeria, Pakistan, Philippines, Sri Lanka, Sudan, Swaziland, Thailand, Yemen Arab Republic and Zambia.

Assignments Handled

2.17. AFC has the distinction of formulating several complex and innovative projects for various central and state level development departments, NABARD, Commercial Banks, State level Cooperative Banks, etc. AFC has been instrumental in creating several model Comprehensive Area Development plans for promotion of Agriculture, Irrigation, dryland Farming, Watershed Development, Non-farm activities, Non-conventional sources of energy, Horticulture, Fisheries, Animal Husbandry and Livestock, Resettlement and Rehabilitation, environmental Management, etc. in the Country. Apart from these, other notable assignments include Hi-tech agricultural projects related to Floriculture, Green house technology, Poultry, Fisheries, Animal Husbandry, Agro-processing, etc.

2.18. With the transfer of the National Wastelands Development Board to the Ministry of Rural Development, Government of India, the Regional Centre for Wastelands Development set up at the Corporation's Delhi office in 1989-90 was converted into Regional Centre, National Afforestation and Eco-Development Board of the Ministry of Environment and Forest, Government of India (NAEB). This Centre assists the National Afforestation and Eco-Development Board and the three State Governments of Uttar Pradesh, Haryana, Rajasthan and the Union territory of Delhi by organising workshops, conducting studies and discussing various relevant issues in its advisory Management Committee meetings.

2.19. A special mention could be made of the preparation of the Tamil Nadu Women's Development Project with the assistance from IFAD and its terminal evaluation. Similar type of studies have been conducted for Andhra Pradesh Tribal Welfare Department.

2.20. AFC continues its efforts to promote a more rapid agricultural development the Eastern and North Eastern regions of the country by undertaking formulation of projects and carrying out monitoring/evaluation studies related to implementation of agriculture and rural development programmes. The projects undertaken include the Techno-Economic Feasibility Survey on the scope of development of horticultural crops in West Bengal, Master plan for Horticulture Development in Mizoram, evaluation of performance of Minor Irrigation Schemes in the States of Assam, Arunachal Pradesh and Meghalaya, Rehabilitation and Resettlement plan for oustees of Tipaimukh High Dam Project, Environmental appraisal on Kameng Hydroelectric Project, studies relating to Assam Agricultural Development Project and preparation of a project report for development of 25 agricultural farms of the Sone Command Agricultural Development Agency.

Environmental Studies

2.21. AFC had wide experience in Social Sector, Watershed Development, Irrigation and water management, crop yield estimation, crop management practices, etc. and so far formulated over 2000 projects/studies in different parts of the Country on various aspects of agriculture, irrigation, watershed development, horticulture, forestry, fisheries, etc.

2.22. AFC has the experience of organising baseline studies in Sone Command Area and Tawa Command Area in the Country for irrigation water management and onfarm development activities. The experience relevant to the present study in detail are furnished in Appendix II I.

Monitoring and Evaluation

2.23. AFC, over the years has developed expertise, not widely available, for monitoring and evaluation of social sector, irrigation, water management, command area development and other agriculture development projects implemented with institutional credit. It is the only consultancy Organisation to be owned by the banks in the country and works closely with the Reserve Bank of India (RBI), National Bank for Agriculture and Rural

Development (NABARD), Government of India, State Governments, Research Organisations and Universities and ensures linking agriculture and irrigation development with the help of plan outlay, institutional credit arrangements and farmers' own money. AFC has undertaken monitoring and evaluation of various projects/ schemes implemented with financial assistance from European Economic Community, World Bank IFAD, GOI, State Governments, Banks, NABARD and RBI. During the last 6 years, AFC had formulated and undertaken over 35 monitoring and evaluation studies in the fields of irrigation, command area development, water management, watershed development, soil and water conservation, concurrent evaluation of Special Rice Production Programme, National Oilseeds Development Programme, the World Bank assisted Training and Visit System, and feasibility studies of ADB assisted Integrated Rural Development Project having irrigation as a major component and IFAD assisted Second Rajasthan Command Area Development and Settlement Project.

2.24. AFC has developed a very good working relationship over the years with GOI while carrying out monitoring and concurrent evaluation studies of Integrated Rural Development Programmes, works of various State Scheduled Caste Development Corporations and Special Rice Production and National Oilseeds Development Programmes for the Department of Rural Development, Ministry of Welfare and Ministry of Agriculture respectively. Being an Organisation of banks it has very close relationship and links with the Ministry of Finance, Department of Economic Affairs, GOI. AFC has also developed good working relationships with all the State Governments.

2.25. The Ministry of Agriculture, GOI has also assigned Evaluation Studies of Soil Conservation in the River Valley Projects of Matatila, Ukai, Nizamsagar, Kangasabati, Teesta and Chambal in the States of Uttar Pradesh, Madhya Pradesh, Gujarat, Andhra Pradesh, West Bengal, Bihar and Rajasthan.

2.26. AFC has carried out the M & E studies in respect of Watershed Development Programmes sponsored by the European Economic Community (EEC) in Gujarat and the World Bank in Madhya Pradesh and currently undertaken the Evaluation of AP Minor Irrigation Development Project in Andhra Pradesh sponsored by EEC.

2.27. AFC has formulated a large number of projects on Irrigation Development, Soil Conservation, Water Management, Horticulture, Agriculture Development, Watershed Development, Environmental Development Projects in the States and has been continuously serving the State with all dedicated efforts and sincerity for growth and development.

Forest Based Studies

2.28. An exclusive Regional Centre of AFC for National Afforestation and Eco Development Board (RC:NAEB) has been functioning under the Ministry of Environment and Forests. Government of India would provide a good forum for cross fertilisation of ideas and experience among the various Forestry Officers, NGOs, Panchayat Raj

Institutions, academicians and other agencies involved in afforestation and eco-development. Problem specific studies and workshops relating to the regeneration of degraded forests, eco-development, joint forest management, people's participation, coastal area ecology, mines, etc. have been taken up by the above Centre. The studies and workshops undertaken by the Centre have been quite innovative in nature and have been well received by NAEB, Government of India as also by the UN Agencies like FAO, etc.

Experience in APPTDP Area

2.29 AFC has conducted a detailed study for formulating the project. AFC has conducted the evaluation study of IFAD Phase-I Project also. AFC study team is fully aware of the socio-economic conditions, topography, land use, cropping pattern, etc. of APPTDP area.

2.30. Besides the above projects AFC has undertaken large number of projects on various aspects of social sector including tribal development. Some of the relevant studies / projects undertaken in different parts of the country are furnished in Appendix - II.1.

BACKGROUND AND EXPERIENCE OF TCR & TI

Background

Tribal Cultural Research and Training Institute (TCR & TI) was established in the year 1963 in Andhra Pradesh in consonance with the National Policy on Scheduled Castes and Scheduled Tribes to assist Tribal Welfare Department in Planning and Monitoring by ploughing back its research results besides keeping a breast of field situation. The institute has been effectively playing its role in meeting the research, Planning, Monitoring, Evaluation and Training Development needs of the Tribal Welfare Department. Two Regional Centers have been functioning at Paderu in Visakhapatnam District and Bhadrachalam in Khammam district since 1985.

Experience

- Conducted several basic studies to identify the problems and felt needs of the tribals.
- Monographic studies conducted on various tribal groups have been utilised in identifying various Socio-cultural and economic barriers for implementation of various development programmes and also to identify sham tribal claimants.
- Formulated perspective plans for the development of various tribal groups in tribal sub-plan areas and also plans for the development of PTGs, MADA pockets and clusters.
- Conducted studies of applied nature in specific areas which formed the basis for establishment of mini Anganwadis, appointment of community Health Workers, strengthening of Medical Institutions, Transportation facilities to PHCs etc. in tribal areas besides evolving forest policy in favour of tribals.
- Helping the Tribal Welfare Department and State Government in weeding out the non S.T. communities who have been masquerading as one of the Scheduled Tribes with similar nomenclature.
- Participation in district level Scrutiny committees as one of the members to guide the committees in examining the ST status claims and also conducting enquiries into the complaints against false ST Certificate holders seeking admissions or employment under ST quota.
- Formulated the concept of Girijan Vidya Vikas Kendras (GGKs) which formed the basis for establishment of more than 4000 GVVKs in remote tribal areas with local tribal candidates as teachers.
- Besides monitoring and reviewing the progress of implementation of Protective Regulations, various amendments to the existing laws were brought by TCR & TI for removal of lacunae in the existing legislations for affording comprehensive protection to the tribal interests.

- Organised various training programmes to tribal leaders and functionaries in tribal areas to generate awareness regarding constitutional safeguards and tribal development policies.
- Being part and parcel of Tribal Welfare Department, the TCR & TI is able to provide policy inputs to the Tribal Welfare Department and State Government for evolving appropriate strategies for tribal development.
- Taken up consultancy studies in the fields of Joint Forest Management (A.P. Forestry Project funded by World Bank), A.P.T.D.P and APPTDP (funded by IFAD,Rome) District. Primary Education Programme and District Poverty Initiative programme (funded by World Bank), Health and Nutrition (funded by World Bank), SRBC under A.P. Irrigation Project - III (funded by World Bank) etc.

Appendix - II.1

ASSIGNMENTS OF SIMILAR NATURE SUCCESSFULLY COMPLETED DURING THE LAST FIVE YEARS.							
Sl. No	Name of the Assignment	Name of Project	Owner or Sponsoring Authority	Cost of Assignment (Rs. In lakhs)	Date of Commencement	Date of Completion	Was Assignment Satisfactorily Completed
1	Terminal Evaluation of Tamil Nadu Women's Development Project Assisted by IFAD	Evaluation	Tamil Nadu Corporation for Development of Women	12.75	1999	1999	Yes
2	Cost effectiveness and targeted costs of Tamil Nadu Women's Development Project Assisted & IFAD	Evaluation	Tamil Nadu Corporation for Development of Women	2.25	1999	1999	Yes
3	Monitoring and Evaluation of Rural Women's Development and Empowerment Project	Evaluation	Government of India	230.90	1999	Ongoing	Yes
4	Study on Impact on women Training Programme in Rajasthan under World Bank's Assistance ADP	Assessment	Directorate of Agriculture, Government of Rajasthan	5.75	1997	1998	Yes
5	Bavahar Karguz Yojana II for Madhya District	Evaluation	The Chief Executive Officer, Zilla Panchayat, Mandya District, Karnataka	1.50	1997	1997	Yes
6	Evaluation of Agriculture Sector Schemes Financed by NSFDC in Tamil Nadu - I and Purchase Scheme	Evaluation	National Scheduled Castes & Scheduled Tribes Finance Development Corporation, New Delhi	1.50	1997		Ongoing
7	Impact Evaluation Study of Central Rural Sanitation Programme of Individual Units and Mahila Village complexes	Evaluation	Government of Uttar Pradesh	6.75	1996	1997	Yes
8	Evaluation Study of IRDP Fifth Round, Data Processing and Preparation of Reports	Evaluation	Ministry of Rural Areas & Employment, Government of India	6.12	1995	1996	Yes
9	Study of Tribal Women in Bihar	Survey	Women Development Corporation under the World Bank Project RWDEP	7.80	1996	1997	Yes
10	Evaluation of MFSCDC Schemes beneficiaries in 14 Districts in Madhya Pradesh	Evaluation	Madhya Pradesh State S.C.D.C., Bhopal	4.40	4.96	10.96	Yes

Appendix - II.1Contd.

Sl. No	Name of the Assignment	Name of Project	Owner or Sponsoring Authority	Cost of Assignment (Rs. In lakhs)	Date of Commencement	Date of Completion	Was Assignment Satisfactorily Completed
11	Evaluation Study of Trained Youth under Trysem Scheme in Jabalpur and Raipur Districts of Madhya Pradesh	Evaluation	Rural Development, Government of Madhya Pradesh	0.40	1995	1995	Yes
12	Concurrent Evaluation of IRDP V Round	Evaluation	Department of Rural Development, Government of India	NA	1995	1995	Yes
13	Women Development and Empowerment Project in 6 Districts of Madhya Pradesh	Formulation	Government of Madhya Pradesh	1.80	1994	1995	Yes
14	Evaluation of Schemes of Jawahar Rojgar Yojana in 3 Districts of Madhya Pradesh	Evaluation	Government of Madhya Pradesh	1.20	1994	1994	Yes
15	Evaluation Study of LAMPS	Evaluation	Tribal Welfare Department, Government of Orissa	1.25	1994	1994	Yes
16	Study for Formulation of Economically viable Schemes for Women in 6 Districts of Kerala	Project Formulation	Kerala State Women's Development Corporation, Trivandrum.	1.50	1994	1995	Yes
17	Concurrent Evaluation of IRDP IV Round and Cash Disbursement Scheme	Evaluation	Ministry of rural Development, Government of India	8.07	1992	1993	Yes
18	Concurrent Evaluation of Jawahar Rojgar Yojana II Round	Evaluation	Ministry of Rural Development, Government of India	5.93	1993	1994	Yes
19	Quick Evaluation of TRYSEM in 4 Districts of Assam	Evaluation	Ministry of Rural Development, Government of India	0.29	1993	1993	Yes
20	Evaluation of Agricultural Land Purchase Schemes in Palakkad and Malappuram districts of Kerala	Evaluation	Kerala State Development Corporation for SC & STs Limited	1.00	1993	1994	Yes
21	Evaluation Study of Integrated Tribal Development Project - Katpadum Mayurbhans District	Evaluation	The Harijan and Tribal Welfare Department, Government of Orissa	2.00	6-92	3-93	Yes
22	Concurrent Evaluation of Jawahar Rojgar Yojana	Evaluation	Ministry of rural Development, Government of India	9.20	1992	1992	Yes

Appendix - II.1Contd.

Sl. No	Name of the Assignment	Name of Project	Owner or Sponsoring Authority	Cost of Assignment (Rs. In lakhs)	Date of Commencement	Date of Completion	Was Assignment Satisfactorily Completed
23	Evaluation of Self Employment to Unemployed Youth Schemes in Dhar and Hoshangabad Districts, Madhya Pradesh	Evaluation	Commissioner Industries, Government of Madhya Pradesh	0.80	1992	1992	Yes
24	Evaluation of IRDP in 5 districts of Madhya Pradesh	Evaluation	Government of Madhya Pradesh	2.00	1992	1993	Yes
25	Evaluation Study of Baripada ITDP in Orissa State	Evaluation	Government of Orissa	1.50	1989	1990	Yes
26	Intensive Evaluation of Tribal Beneficiaries under Family Oriented Economic Programme	Evaluation	Government of India	1.50	1989	1991	Yes
27	Evaluation Study of IRDP Beneficiaries in 3 districts of Madhya Pradesh	Evaluation	Government of Madhya Pradesh	4.00	1991	1991	Yes
28	Tribal Development through Afforestation, Rajasthan	Assessment	National Bank for Agriculture and Rural Development	3.25	1991	1992	Yes
29	Evaluation of IRDP implemented in 3 Districts of Kerala during 7 th Plan	Evaluation	Government of Kerala	1.20	1991	1991	Yes
30	Evaluation of Beneficiaries of Madhya Pradesh Antyavayasyee	Evaluation	Madhya Pradesh Antyavayasyee shakari Vikas Nigam Limited, Bhopal	1.86	1990	1992	Yes
31	Cash Disbursement under IRDP	Formulation	Government of India	1.20	1991	1991	Yes
32	Evaluation Study of IRDP in Saur Bazar Block of Saharsa District	Evaluation Review	Government of Bihar	0.40	1992	1993	Yes
33	Evaluation Schemes under Self-Employment to Unemployed Educated Youth Programme	Evaluation	Commissioner Industries, Government of Madhya Pradesh	0.80	1990	1990	Yes

**INTERNATIONAL ASSIGNMENTS UNDERTAKEN BY AFC
INCLUDING DEPLOYMENT OF ITS EXPERTS FOR
International Assignments and Missions**

Country & Year	Name of the Project	Agency
Nigeria 1979	Agri-Business Project Feasibility Report	An agency in Nigeria
Nepal 1980	Fourth Agricultural Credit Project Feasibility Report	ADB
PDR Laos 1982	Special Programming Mission	IFAD
Indonesia 1982	Project Identification Mission	IFAD
Indonesia 1983	Simalungan Irrigation Project, North Sumatra : Appraisal Mission	IFAD/ADB
Sri Lanka 1983	Kirindi Oya Irrigation & Settlement Project : Review Mission	IFAD/ADB
Pakistan 1983	Gujranwala Agricultural Development Project Preparation Mission	IFAD
Saudi Arabia 1983	Identification Mission	Bilateral
Malaysia 1984	Perlis Agricultural Development Preparation Mission	ADB
Sri Lanka 1985	Project Identification Mission	IFAD
Nigeria 1986	Project Identification Mission	Private Firm
Pakistan 1986	Chitral Area Development Project	IFAD
India 1987	General Identification Mission	IFAD
India 1987	Rajasthan CAD & Settlement Project - Supervision Mission	IFAD / World Bank
India 1988	Post Identification Mission - Rajasthan	IFAD
India 1988	Second Rajasthan CAD & Settlement Project Preparation Mission	IFAD
India 1988	Tamil Nadu Women's Development Project - Preparation Mission	IFAD
Indonesia 1989	East Java Rainfed Agri Project - Appraisal Mission	IFAD
Sri Lanka 1989	Badulla Rural Development Project - Preparation Mission	IFAD

Country & Year	Name of the Project	Agency
India 1990	Rajasthan CAD Project Completion Mission	IFAD
Iran 1990	Special Identification Mission	IFAD
Sri Lanka 1991	N W Rainfed Agriculture Project / Preparation	IFAD
Iran 1991	Identification Mission	IFAD
Philippines 1992	Visayas Communal Irrigation Project Appraisal Mission	IFAD
Bhutan 1992	Mid Term Review Mission	IFAD
Philippines 1992	Visayas Communal Irrigation Project (Start up mission)	IFAD
Pakistan 1992	Manshera Village Support Project Appraisal Mission	IFAD
Philippines 1992	Visayas Communal Irrigation Project / Inception Mission	UNDESD
India 1993	Orissa Tribal Development Project / Mid-term Review	IFAD/UNOPS
Philippines 1993	Visayas Communal Irrigation Supervision Mission	UNDESD
Indonesia 1993	Eastern Islands Smallholder Cashew development Appraisal Mission	IFAD
India 1993	AP Tribal and Credit Project Pre-appraisal Mission	IFAD
Philippines 1994	Visayas Communal Irrigation / Supervision	UNDDSMS
Philippines 1994	Highland Agriculture Development Project - Project Completion Mission	IFAD / ADB
India 1994	Mewat Area Development Project - Preparation Mission	IFAD
Nepal 1994	Groundwater Irrigation & Flood Rehabilitation Project Inception Mission	UNDDSMS
Indonesia 1995	Eastern Islands Smallholder Livestock Project. Appraisal	IFAD
China 1995	Yunnan Area Development Project Supervision	UNDDSMS

Country & Year	Name of the Project	Agency
Nepal 1995	Groundwater Irrigation Flood Rehabilitation Supervision	UNDDSMS
Nepal 1995	Flood Protection Project Appraisal	OPEC Fund (Vienna)
Philippines 1995	Visayas Commercial Irrigation Project; Supervision Mission	UNDDSMS
Nepal 1996	Poverty Alleviation Project, Appraisal	IFAD
Philippines 1996	MTR Mission Visayas Communal Irrigation Report	IFAD
Nepal 1996	Groundwater Irrigation Project Supervision	UNDDSMS
China 1996	Yunnan Area Development Project MTR Mission	UNDDSMS
Tanzania 1996	Agricultural Development Project - Appraisal	IFAD
India 1997	MP Tribal Development Project - Preparation	IFAD
Laos 1997	Sayabouri Rural Development Project Preparation	IFAD
Tanzania 1997	Identification Mission	IFAD
Laos 1998	Xienag Khoung Agricultural Development Project Preparation Mission	IFAD

INDIA
ANDHRA PRADESH STATE
ANDHRA PRADESH PARTICIPATORY TRIBAL DEVELOPMENT PROJECT
ASSISTED BY IFAD: IMPACT EVALUATION

TECHNICAL AND FINANCIAL PROPOSAL

III

APPROACH
AND
METHODOLOGY

INDIA
ANDHRA PRADESH STATE
ANDHRA PRADESH PARTICIPATORY TRIBAL DEVELOPMENT PROJECT
ASSISTED BY IFAD:
IMPACT EVALUATION

TECHNICAL AND FINANCIAL PROPOSAL

III

**APPROACH
AND
METHODOLOGY**

INTRODUCTION

3.01 As per the Letter of Invitation (LOI) issued by Commissioner of Tribal Welfare (CTW), the Andhra Pradesh Participatory Tribal Development Project (APPTDP) is being implemented by them in five sub-plan areas of the state with financial assistance from IFAD. Under APPTDP the poor tribals are assisted with measures like creation of additional small scale irrigation facilities, soil and moisture conservation, arable crop development, horticulture development, livestock improvement, off farm development, credit and community participation for improving their standard of living. The project is implemented with the NGOs as facilitators.

OBJECTIVES OF APPTDP

3.02 The main objectives of APPTDP as set out by CTW is empowerment of tribals in the project area. It is envisaged that the empowerment of tribals under the project would be in terms of Economic and Social Development. The project also contemplated the empowerment of tribals under the project with economic and political decision making through social development. As indicated in the LOI the economic development of poor tribals under the project could reflect through the following.

- a) raise the income levels;
- b) promote food security and improve the quality of life of the tribal within the context of a traditional tribal environment, culture and values.
- c) promote greater and sustainable self reliance among tribal communities, and
- d) reduce and reverse environmental degradation.

3.03 Further, the social development of project beneficiaries could reflect in the following:

- a) Development of groups as a source of mutual support.
- b) Greater self confidence among tribals.
- c) Improved status of tribals within the community, greater voice, decision making, acceptance by others in the community, etc.
- d) *Development of leadership qualities, taking collective action for development, settlement of local disputes, voicing and acting against social injustices to tribal communities.*
- e) *Acquiring life skills like functional literacy and numeracy, awareness regarding family welfare, health and nutrition, and other Government Schemes.*

STUDY AREA

3.04 As indicated earlier, the study area consists of five ITDAs spread over five districts of Andhra Pradesh. They are as follows:

1. ITDA, Utnoor in Adilabad District
2. ITDA, Eturnagaram in Warangal District
3. ITDA, Bhadrachalam in Khammam District
4. ITDA, K.R. Puram in West Godavari District, and
5. ITDA, Sundipenta in Kurnool District

3.05 The sub-area wise summary of project activities of APPTDP as per the project report, is presented in the following Table.

SUMMARY OF PROJECT ACTIVITIES							
	Unit	Utnoor	Eturnagaram	Bhadrachalam	K.R. Puram	Sundipenta	Total
Project Area							
Beneficiary ST families		21332	8622	34996	6790	5070	76610
Landless households (%)		17%	8%	21%	24%	47%	20%
Landed households		17708	7932	27647	5160	2688	61333
Average holding/landed household (ha)		2.2	1.3	1.8	1.7	1.3	1.8
Total land holdings (ha)		38960	10310	49760	8770	3560	111350
% irrigated		8%	11%	7%	29%	5%	9%

	Unit	Utnoor	Etur-nagaram	Bhadra-chalam	K.R. Puram	Sundi-penta	Total
Irrigation							
Minor Irrigation tanks	ha	500	4000	2500	400	-	7400
Kunta	ha	800	-	-	-	-	800
Checkdams /anicut	ha	180	500	2375	360	48	3463
Lift Irrigation Schemes	ha	2400	500	1000	-	-	3900
Borewells	ha	-	-	-	-	400	400
Tubewells	ha	100	40	-	-	-	140
Dugwells	ha	-	400	200	-	200	800
Well improvements	ha	-	-	-	-	300	300
		3980	5440	6075	760	848	17203
Land development	ha	1990	2720	3038	380	474	8602
Soil Conservation							
Vegetative barriers	'000mts	120	60	200	60	32	472
Graded/contour bunds	ha	10000	1100	6600	960	600	19260
Stone terracing	ha	350	360	550	380	190	1830
Bench terracing	ha	210	200	1060	230	75	1775
Stone checks	no	250	50	1000	75	38	1413
Rockfill dams	no	280	50	300	-	-	630
Brush wood dams	no	280	-	1000	-	-	1280
Farm ponds	no	115	50	400	37	3	605
Diversion drains	'000mts	40	14	50	4	3	111
Arable Crop Development							
Net sown area							
Irrigated area	ha	4917	4603	7226	2460	758	19964
Dry land	ha	7117	1019	9533	1248	838	19555
Gross cropped area	ha	6638	6214	9858	3321	1024	26953
Irrigated land	ha	8540	1223	11440	1497	766	23466
Dry land	ha						

	Unit	Uttoor	Etur-nagaram	Bhadra-chalam	K.R. Puram	Sundi-penta	Total
Horticulture Development							
Dryland							
Mango	ha	3570	380	1040	-	150	5140
Cashew	ha	950	220	1000	800	-	2770
Guava	ha	400	300	240	-	60	1000
Custard apple	ha	380	110	300	-	70	860
Sapota	ha	-	-	-	-	80	80
Irrigated							
Citrus	ha	500	270	150	-	-	920
Coconut	ha	-	150	-	150	80	380
Banana	ha	400	150	300	-	-	850
Vegetables	ha	50	250	75	75	50	500
Floriculture	ha	-	-	-	-	50	50
Wastelands							
Miscellaneous trees	ha	2000	-	-	-	-	2000
Livestock Development							
Cattle upgrading	communities	100	50	75	25	25	275
Plough bullocks	pairs	350	450	550	75	75	1500
Milch animals	Units (2 nos.)	200	130	340	50	80	800
Goat breeding	units (3 nos.)	125	80	215	30	50	500
Goat idd fattening	units (5 nos.)	125	80	215	30	50	500
Off-farm Development							
Tassar culture							
Existing forest areas	ha	-	300	200	-	-	500
New plantations	ha	500	50	300	-	-	850
Tassar reeling	no	42	36	42	-	-	120
Tassar weaving	no	10	9	11	-	-	30
Other off-farm activities	no	425	110	1060	320	210	2125

OBJECTIVES AND SCOPE OF THE STUDY

3.06 The objectives and scope of the study have been elaborated quite adequately in Terms of Reference (TOR) enclosed with the Letter of Invitation. The scope and objectives of the study as indicated in the Letter of Invitation are reproduced in Appendix - III.1 to form part of the TOR. The main objective of the study as set out by CTW is to carry out impact evaluation of APPTDP in five project areas with the primary aim of assessing the benefit of the project on individuals and groups and process evaluation. Geographical coverage of the study consists five project areas listed above.

APPROACH

3.07 AFC proposes to adopt multi-dimensional approach for carrying out the impact evaluation of the project with a view to studying the effectiveness and sustainability of investments made on project implementation and the process of project implementation. While adopting the multi-dimensional approach, each component would have a well defined and specific methodology to be followed for arriving at reliable conclusions. AFC provides experts of very high calibre in different areas of specialisation as required for carrying out the Impact Evaluation of APPTDP. The names of the experts and their Curriculum Vitae are also provided elsewhere in this proposal.

STUDY COMPONENTS

3.08 A review of the scope and objectives of the study, as set out in the Letter of Invitation, indicates that the study can be broadly divided into two components. They are as follows

- Impact Evaluation; and
- Process Evaluation;

3.09 The impact evaluation, however, will be carried out separately for all the following activities.

- Small Scale Irrigation;
- Soil and Moisture Conservation;
- Arable Crop Development;
- Horticulture Development;
- Livestock Development;
- On-Farm Development,
- Credit; and
- Community Participation Development.

3.10 The impact evaluation of the above cited activities will have the following ten dimensions

- Improvement in Income and Living Standards;
- Food Security;
- Nutritional Adequacy and Health;
- Employment;

- Indebtedness and Savings ____
- Status of women;
- Community Development;
- Village Institutions;
- Environmental Impact; and
- Research Impact

METHODOLOGY AND TOOLS FOR DATA COLLECTION

3.11 AFC proposes to collect and analyse both secondary and primary data for carrying out the study. Broad indication of secondary data sources is presented below. The extent and nature of sampling plan for collection of primary data is also specified below for each of the components of the study.

DATA COLLECTION FROM SECONDARY SOURCES

3.12 The various sources of secondary data necessary for the study includes Project Management both at state level and district level, various NGOs, Banks and selected women groups. Further, AFC would also access and process data available in various monitoring and evaluation reports received by Project Management from PIUs, NGOs and others. These reports include area profiles, beneficiary registers, progress register, activity monitoring formats, village survey register and community development register being maintained by PIU at the district, and mandal levels. The collection of data from secondary sources, would be through data formats and checklists to be developed by the study team members. This data/information from various secondary sources would be supplemented with detailed discussions with officials of Tribal Welfare Department, GOAP, NGOs and Banks both at State level as well as district and mandal level. These discussions would be on the basis of a detailed checklists to be prepared by AFC study team members.

DATA COLLECTION FROM PRIMARY SOURCES

3.13 The methodology for primary data collection and corresponding tools for the same proposed for all the above cited two components of the study are elaborated below.

a) Impact Evaluation: The impact evaluation component of the study concentrates on quantifiable effect of the project on individuals, households and groups.

3.14 There are two different types of methodologies in vogue for impact evaluation of various developmental projects including tribal empowerment projects. The first method is to consider the position of tribal households in terms of different parameters without the project and compare the same with the position of these households with the project, known as with and without or WW approach. The second approach is to assess the situations in regard to various parameters of tribal households position before the initiation of project and then compare them with the situations prevailing after the project implementation popularly known as before and after or BA approach. These two approaches are having their own limitations in correctly assessing the impact of the project. In view of these limitations of the above two approach for impact evaluation, of late, a third approach/method is developed and is increasingly used for quantification of benefits of developmental programmes. In this

method, the difference of changes which have taken place in both control and project areas during the pre-project period and post-project period is estimated as project benefit.

3.15 Since no reliable baseline or benchmark data either for project area or control area are available for APPTDP it may not be possible to adopt either BA approach or third method for impact evaluation of APPTDP. Hence, it is proposed to adopt, notwithstanding its limitations, with and without approach for impact evaluation of APPTDP. Nevertheless, it is proposed to combine these two methods of impact evaluation as and when reliable baseline or benchmark data is available. The impact evaluation of APPTDP would be carried out separately for five project areas. The sampling plan proposed to be adopted for this study is elaborated below.

3.16 A review of the various project components indicated that the project implementation was on watershed basis except for ITDA, Sundipenta in Kurnool district. It is also proposed that in four ITDA areas to carry out technical evaluation of various facilities created under the project. For the purpose of technical evaluation a sample of fifty per cent of watersheds will be selected. The selection of these watersheds will be based on a purposive sampling to cover all different types of watersheds in the project area. There are 28 watersheds in four ITDAs. Thus, the sample will consist 14 watersheds for these four ITDAs. As far as Sundipenta ITDA is concerned the project beneficiary and consequent project implementation is quite scattered and covers about 242 villages spread over 33 mandals in Kurnool district. Therefore, the first stage sampling unit in the case of Sundipenta ITDA will be mandal. It is proposed to select about mandals from the total 33 mandals in the project area of Sundipenta ITDA. The mandals with different level of implementation will be selected. About three villages from each of the selected mandals will be identified in such a way that all the components of the project are implemented in the sample villages.

3.17 The socio-economic impact evaluation would be based on the primary data collected from tribal households, NGOs and PIUs from all the five project areas. The sampling of tribal households and NGOs in all the five project districts would be based on stratified random sampling with watershed/mandals in selected district as first stage units of sampling, villages in the given watershed/mandal as second stage unit of sampling and households from each selected village as third and ultimate units of sampling. The size of sample at each stage would be based Probability Proportion to Variance (PPV), and should provide estimates with 95 per cent level of confidence and 5 per cent error. Before, determining sample sizes at each stage pilot information for about 25 households from each district would be obtained. This information would be used to determine sample sizes at each level of villages and households/individuals. The pilot information can be generated at the time of field testing of various schedules prepared for collection of primary data. Control areas would be identified for each selected activities/components. A similar sampling plan would be adopted for selection of control households for survey and collection of primary data. Thus, the sample size at each stage would be adequate to draw reliable conclusions. AFC study team proposes to maintain the minimum number of households to be surveyed at 3000 while distribution of the same according to project activity/component and experimental and control group would be worked at the time of pre-testing of schedules. It will also ensure the minimum coverage of 75 beneficiaries from each activity from each ITDA, for evaluation of socio-economic impact of the project.

b) Process Evaluation: As indicated in the scope and objectives of the study the process evaluation mainly concerns with the evaluation of training programmes, role and effectiveness of NGOs, Bank and Project Management. The quantifiable information for this component of the study would be generated through the sample survey planned for impact evaluation. However, this component of the study requires the collection of large volume of qualitative information. For generation of the required qualitative information for this component of the study it is proposed to under take Participatory Rural Appraisal (PRA) techniques, which are gaining wider acceptability to bring out the qualitative features of the projects. This approach gives central place to the tribal participant as the prime mover of the evaluation exercise. It is also proposed to document interesting case studies with a very high level of success and failure, if any.

DATA COLLECTION TOOLS

3.18 A variety of tools may need to be employed to generate relevant, valid and verifiable data under this assignment. These tools may include the following.

- 1) Review of secondary sources;
- 2) Interviews with key persons;
- 3) Semi structured interviews with individuals or small groups;
- 4) Group discussions;
- 5) Social and resource mapping;
- 6) Seasonal calendar and daily activity profile;
- 7) Participant observation.

DATA ANALYSIS

3.19 All the primary and secondary data collected for the study would be processed using the computers available in Consultant's office in Hyderabad. A team of system personnel would be deployed by the Consultant at Hyderabad for carrying out the data analysis. It is expected that the computer hardware and software available with Consultant's office at Hyderabad would be sufficient for data processing under the assignment. Hence, no new computer hardware or software are proposed under this assignment. Both the components of the study would be carried out on the basis of simple tabular analysis. However, it is proposed to use various statistical techniques such as t-tests, f-tests and others to assess the statistical significance of various quantifiable parameters.

DATA, SERVICES AND FACILITIES TO BE PROVIDED BY THE CLIENT

3.20 The LOI has suggested that the study may need to be taken up by the consultant in collaboration with Tribal Cultural Research and Training Institute (TCR&TI), Hyderabad. Therefore, it is proposed to carry out the study in collaboration with TCR & TI, Hyderabad. The roles and responsibilities of researchers from TCR&TI in carrying out the study are collaborated elsewhere. The presence of researchers from TCR&TI as part of the study team would facilitate the access to information and data available with CTW in this regard. However, The counterpart services required from CTW for carrying out the study will be as follows:

- a) CTW, Hyderabad would *nominate* a senior officer as a counterpart officer for the entire duration of the project;
- b) It would provide access to all such information, books, documents, records as would be necessary for the study;
- c) It would *provide necessary facilities and make arrangements for stay etc., in the field as and when requested by the study team; and*
- d) It would instruct district level officials to provide access to the data and information available with them to the study team and extend necessary facilities.

ANDHRA PRADESH PARTICIPATORY TRIBAL DEVELOPMENT PROJECT

TERMS OF REFERENCE FOR CONDUCTING IMPACT EVALUATIONS

The Andhra Pradesh Participatory Tribal Development Project (APPTDP) has been under implementation by Department of Tribal Welfare, Government of Andhra Pradesh with support from International Fund for Agricultural Development (IFAD), Rome since 1995.

The project objectives are : to raise the income level, promote food security and improve the quality of life of the tribal people within the context of a traditional tribal environment, culture and values; promote greater and sustainable self reliance among tribal communities; and reduce and reverse environmental degradation.

The project components are : Small Scale Irrigation, Soil & Water Conservation, Arable Crop Development, Horticulture Development, Livestock Development, Off-farm Development, Community Participation and Development and Credit Marketing, Research & Development.

The project is implemented by five ITDAs namely Utnoor, Eturunagaram, Bhadrachalam, K.R.Puram and Sundipenta and also GCC.

The appraisal report of the project envisages conducting of impact evaluation studies during project year 6 onwards. Accordingly the following general TOR is formulated while the sector specific Tor are given as Annexures 1-8 conducting impact evaluations.

1. The scope of the study includes process evaluation of implementation in each ITDA and terminal impact of programmes/schemes completed earlier.
2. The study shall be conducted in project area in collaboration with Tribal Cultural Research and Training Institute (TCR & TI), Hyderabad.
3. The study shall focus on each tribe and more specifically PTGs and women.
4. The evaluation study shall adopt appropriate methodologies like PRA and also customary methodologies for assessing the impact in quantitative and qualitative terms. Emphasis shall be on participatory evaluation in which the opinions of project target beneficiary as well as those of project and non-project functionaries shall be solicited and documented.
5. Approach and methodologies of the evaluation including the selection of villages and outcome of the study shall be done through "Core Learner Partnership" strategy by holding discussions with key stakeholders namely ITDA's/GCC/GPCMS/functionaries of ITDA'S/NGOs associated with the project, VTDA office bearers and tribal communities and other official, semi official and people's institutions.
6. The study outputs shall be furnished as draft interim report for every quarter and discussed with core learner partner i.e. Project Officer, ITDA. The final report for each of the ITDA and consolidated report for all ITDA's should be submitted at the end of the study.

7. The study would cover following major area :

- 1 **Improvement in income and living standards** - increased production of food crops, income from horticulture, livestock, MFP and other off-farm income sources;
- 2 **Food security** - increase in food availability from own production, willingness to purchase food and pattern of food purchases, seasonal factors;
- 3 **Nutritional adequacy and health** - analysis of dietary intake, overall nutritional status and health;
- 4 **Employment** - impact on family labour input, men/women by road activity groups, need/opportunities for off-farm employment;
- 5 **Credit** - response to credit, credit discipline and repayment performance, efficiency of delivery system of GCC;
- 6 **Indebtedness and savings habit** - changes in pattern of indebtedness, impact on informal interest rates, propensity to save, utilisation of loans from thrift and credit groups;
- 7 **Marketing** - Impact on prices in open market for agricultural and horticultural produce, assessment of fairness of prices received by beneficiaries;
- 8 **Impact on status of women** - involvement in training, impact on labour input, integration into decision making process at the household and community level, change in status in family and community;
- 9 **Community development** - Impact on community attitudes, self-help and self-reliance, community action - health, grain banks, community assets, community participation by disadvantaged community groups;
- 10 **Village institutions** - strength and capability of village institutions to continue the development process;
- 11 **Environmental impact** - assessment of reduction in soil erosion and soil loss and the increase in moisture content in the soil available in the crops as a result of the soil and water conservation measures and the restoration of tree cover on the hillsides;
- 12 **Research impact** - assessment of the impact of adaptive research for providing an appropriate input technologies.

SMALL SCALE IRRIGATION

1. Appropriateness of identification of location and target group.
2. Technical assessment of Design
3. Execution arrangements including participatory arrangements.
4. Technical assessment of quality of structures, perceptions of beneficiaries about quality, completion status and maintenance.
5. Utilisation status in terms of potential created and utilised vis-a-vis the estimated.
6. Changes in cropping patterns and cropping intensity.
7. Improvement in crop productivity and employment.
8. Impact on household food security, income levels.

SOIL AND MOISTURE CONSERVATION

1. Assessment of awareness created and involvement of communities, identification of problem areas and treatment measures.
2. Technical assessment of design and quality of structures/treatments.
3. Assessment of implementation arrangements, participatory arrangements, completion status, present condition and maintenance.
4. Change in cropping pattern, crop yields, increase in production, employment and income.
5. Perceptions of the beneficiaries about execution of structures and benefits in arresting soil erosion, soil losses, change in fertility status, improvement in levels of ground water potential, moisture content.
6. Impact on household food security, non project farmers and environmental degradation.

ARABLE CROP DEVELOPMENT

1. Assessment of appropriateness of selection of technology and change agents like VLW, ADC and interventions (eg. Adaptive trials, demo plots, seed production sites, input supply) including trainings to change agents and farmers.
2. Assessment of spread change, improvement in technology and cultivation practices with specific reference to irrigated/semi-irrigated and dry land.
3. Assessment of effectiveness of delivery/implementation mechanism adopted in terms of timeliness, optimum quantity, technical advice and farmers perceptions.
4. Assessment of impact of technological change in terms of incremental crop yield rate, changes in crop rotation/replacement/inter cropping.
5. Assessment of impact on household food security, improvement in employment (including household labour) wage rates and income.
6. Community knowledge levels and perceptions about technology introduced utility and sustainability.

HORTICULTURE DEVELOPMENT

1. Assessment of processes evolved for creating technical awareness among tribals about satellite nurseries, horticulture & MFP/NTFP plantations, floriculture, backyard gardening/olericulture. etc.
2. Assessment of appropriateness of selection of satellite nursery farmers and trainings.
3. Assessment of execution arrangements like supply of material, equipment, scion material/grafts, including maintenance arrangements.
4. Assessment of utilization status in terms of plant material produced and supplied for surrounding plantations, income derived and present status of availability of plant material with satellite nursery farmers and sustainability of the activity by them.
5. Assessment of beneficiary perceptions regarding introduction of plantation (Fruit/NTFP) species, their quality, utility and sustainability.
6. Assessment of current status of plantation, production and impact on household food security including nutrition, employment and income levels.

LIVESTOCK DEVELOPMENT

1. Assessment of the extent of increase in demand for plough bullocks, milch animals, sheep & goat etc. due to the project interventions and processes adopted for identification of demand, selection of beneficiaries (including women and landless) and delivery processes.
2. Technical assessment of support mechanism evolved, including veterinary care, trainings, extension and marketing, where applicable.
3. Assessment of asset intactness, improvements and utilization status, income levels, household food security.
4. Assessment of supplementary addition to household food security and improvements in income and employment, especially to women.

OFF FARM DEVELOPMENT

1. Assessment of appropriateness of identification of target group (landless women etc.)
2. Technical assessment of the activities.
3. Execution arrangements including technical trainings and participatory arrangements.
4. Utilization status in terms of employment created and income derived.
5. Perceptions of the beneficiaries about quality, services.
6. Impact of the household food security.

CREDIT

1. Assessment of awareness of tribals about credit institutions including GCC.
2. Assessment of increased credit requirements due to project interventions.
3. Assessment of farm and non-farm credit, accessibility and availability to project beneficiaries including GCC, Banks, SHGs etc. as well as traditional institutions / individuals.
4. Assessment of repayment performance.
5. Assessment of pattern of utilization of credit and its impact on improvement in farm production, income generating, employment and marketing opportunities, asset creations as well as reduction of over dependence on traditional institutions and individuals.

COMMUNITY PARTICIPATION

1. Assessment of policies/strategies / processes employed/evolved in creating awareness and mobilizing communities including women in different socio-economic cultural situations.
2. Assessment of participation of communities, including women, in social, economic, developmental aspects.
3. Assessment of processes employed/evolved for, gender sensitization of functionaries/communities, evolution of institutions, individual/community needs identification, prioritization, implementation including capacity building measures to community mobilizers.
4. Assessment of functioning/performance of various village based institutions like Self Help Groups (SHGs), grain banks, Village Tribal Development Associations (VTDA), Vana Samrakshna Samithis (VSSs), education committees, mothers committees and community mobilizers, including performance of women in decision making processes at household levels as well as community/institutional levels.
5. Assessment of impact of the institutions in terms of planning, implementation, maintenance and sustainability.
6. Assessment of impact of SHGs in terms of changes in propensity to save, lending and borrowing habits, utilization of loans by women and changes in pattern of indebtedness and household food security.
7. Assessment of community perceptions regarding the performance of institutions, functionaries.
8. Impact assessment of extent and strength of womens participation through the projects interventions.
9. Assessment of the strength and sustainability of SHGs and other grass root institutions.

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ANDHRA PRADESH STATE
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ASSISTED BY IFAD : IMPACT EVALUATION**

TECHNICAL AND FINANCIAL PROPOSAL

**IV
WORKPLAN
AND
REPORTING REQUIREMENTS**

INDIA
ANDHRA PRADESH STATE
ANDHRA PRADESH PARTICIPATORY TRIBAL DEVELOPMENT PROJECT
ASSISTED BY IFAD:
IMPACT EVALUATION

TECHNICAL AND FINANCIAL PROPOSAL

IV

WORK PLAN
AND
REPORTING REQUIREMENTS

WORK PLAN AND TIME SCHEDULE

4.01 The AFC study team envisages that the access to data, information and background reports pertaining to the study may be easy in view of the proposed counter part liaison office to be deployed by the CTW. However, the sample survey may be time consuming since the sample coverage is high at about 3000 households. Hence, AFC study team feels that the tasks as set out in the TOR contained in the letter of Invitation can be accomplished within a period of nine months or 36 weeks. However, some slippage may occur due to some unforeseen conditions in carrying out field studies. Nevertheless, the slippage may not exceed three to four weeks.

4.02 The Consultants study team studied the TOR and has made an in-depth analysis of specific issues which are critical for the Impact evaluation study. Considering the scope of the study contained in the letter of invitation and reporting requirements, AFC has proposed a multi-disciplinary team of experts. The details of experts proposed for the study are given in the next chapter.

4.03 The work plan according to Consultants view can be organised in the following sequence:

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IV

WORK PLAN
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WORK PLAN AND TIME SCHEDULE

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4.03 The work plan according to Consultants view can be organised in the following sequence.

Item	Particulars	Programme by Week	
		Duration (Weeks)	Assignment (Week)
A	Preliminary Work	2	20
	- Assembling at Hyderabad		
	- Logistics Planning		
	- Discussions with CTW Officials		
	- Planning for field visits		
	- Preparation of Schedules for data collection and surveys		
	- Collection of Secondary Data and Reports		
	- Discussions on Methodology		
B	In-house Discussion	1.0	3.0
	- Review of Reports		
	- Interaction with other Team Members and Team Coordinator		
C	Preparatory Work for Field Visits and Preparation of Inception Report	1.0	4.0
	- Preliminary Observations		
	- Review of Methodology		
	- Report with CTW		
	- Review of the Operations		
	- Design of Sampling plan for survey of beneficiary and non-beneficiary households		
	- Communication to districts about Team's visit		
	- Printing of Schedules for field testing		
D	Field Visit (First Round)	2.0	5.0
	- Field Visit		

Item	Particulars	Programme by Week	
		Duration (Weeks)	Assignment (Week)
	– Pre-testing of Schedules		
	– Discussions with Local Officials of CTW, NGO, Bank, etc.		
	– Revision of various Schedules		
	– Printing of Schedules		
E	Field Visit (Second Round)		
	– Field visit to CTW Schemes		
	– Data Collection		
	– Discussion with local officials of CTW, NGOs, Bank and Women Groups		
	– Review of the operations		
	– Field Investigations		
F	Data Analysis / Processing	7.00	20.0
	– Secondary Data		
	– Primary Data		
	– Computer Programming		
	– Developing Software for Data Analysis		
G	Draft Report Preparation	10.0	30.0
H	Discussion on Draft Report	2.0	32.0
I	Preparation of Final Report	4.0	36.0

(Final Report will be submitted two weeks after the receipt of comments in writing from CTW)

REPORTING REQUIREMENTS

4.04 The Consultants will submit an Inception Report (three copies) within four weeks from the start of work to the CTW. The Inception Report will be reviewed by the competent officer appointed by CTW. On receipt of the comments from the competent authority or committee on Inception Report, the study team will proceed further to carry out the study. The Inception Report will highlight the objectives of the study, progress of work and an outline of various alternatives for the approach and methodology of the study and various schedules prepared by AFC study team members for field testing.

4.05 After receipt of comments of component authority or committee on Inception Report and survey schedules AFC study team would initiate measures to start field survey. After completion of field study/survey and data processing and analysis, the Consultants i.e. AFC, will submit Draft Report (five copies) at the end of 30th week from the date of initiation. The draft final report will contain quantification of impact of project interventions and also analytical papers to support conclusions drawn and recommendations made by the study team. The findings of the Draft Final Report will be discussed with CTW.

4.06 The Consultants will wait for one week for comments of the component authority or committee on Draft Final Report and on receipt of the same, the Final Report (ten copies) will be submitted, within two weeks from the date of receipt of comments from the competent authority or committee. The Final Report will include all the aspects of the survey/study. Soft copies of the final reports also would be handed over to CTW.

**INDIA
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TECHNICAL AND FINANCIAL PROPOSAL

**V
TEAM COMPOSITION
AND
JOB RESPONSIBILITIES**

**INDIA
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ASSISTED BY IFAD:
IMPACT EVALUATION**

TECHNICAL AND FINANCIAL PROPOSAL

**V
TEAM COMPOSITION
AND
JOB RESPONSIBILITIES**

5.01 As indicated in earlier chapters, the Impact Evaluation of IFAD assisted Andhra Pradesh Participatory Tribal Development Project (APPTDP) comprises of the following two components.

- 1) Impact Evaluation; and
- 2) Process Evaluation.

5.02 AFC would constitute a high level team of experts for undertaking various components required to be carried out under impact evaluation study.

THE TEAM MEMBERS AND TASK ASSIGNMENT

5.03 Besides, the team of experts to be constituted, AFC would deploy the second level field teams comprising Technical Supervisors and Investigators. AFC would also deploy adequate number of Computer Programmers, Computer Operators/Typists and Data Entry Operators for data processing and producing of various reports.

5.04 The nature of work and the duties and responsibilities of each team members identified for the present study would be co-ordinated by the Project Director, AFC, Hyderabad and the Project Director and Incharge, AFC, Hyderabad as Coordinator would provide necessary logistic support for their travel, data procurement, arranging meetings, secretarial support, computer software support etc.

5.05 The overall responsibility of Coordination, negotiation with CTW, compliance with the contractual requirement, timely completion of field surveys of various components, submission of draft and final reports would also be the responsibility of the Project Director,

AFC, Hyderabad. An analysis of the scope and objectives of the study indicated that Impact evaluation of the study would require multi-disciplinary team consisting Advisor, Micro Credit Expert, SHGs Expert, Rural Sociologist/PRA Expert, Statistician, Irrigation Engineer, Agricultural Engineer, Agriculturist, Horticulturist and Livestock Expert. In addition to the above the study would require the services of a team of survey experts, since the field survey in all the five project districts would be started simultaneously. Thus, the study team comprises of the experts in all the above cited areas. The composition of study team along with proposed position and task assignment for technical and managerial staff would be as follows.

TECHNICAL/MANAGERIAL STAFF

Sl. No	Name	Position	Task Assignment
1	Dr.D.V. Ramana	Project Director	Overall Co-ordination of the Study and guiding all the team member at various stages.
2	Dr. D. Appa Rao	Agricultural Engineer / Off-Farm Activities Expert	Assess the impact of soil and moisture conservation measures on the production and productivity of agricultural crops in the project area. Also study the effect of off-farm activities undertaken in the project area.
3	Mr. Ch. Venkateswara Rao	Irrigation Expert	Study the impact of small scale irrigation on project beneficiaries. Also undertaken technical evaluation of structures created under the project.
4	Mr.U.M. Lal	Agriculturist and Environmental Expert	Study the impact of various components of the project on development of agriculture in project area.
5	Prof. S.P. Seetharaman	SHG Expert	Study the role and affectiveness of SHG in the project in the project area.
6	Mr. Shareefuddin Ahmed	Horticulture Expert	Evaluate the impact of horticulture programmes undertaken in the project area.
7	Dr.A.Y. Krishna	Livestock Expert	Study the impact of livestock development programme on project beneficiaries.
8	Mr.M. Dharma Reddy	Micro-credit / Evaluation Expert	Study the impact of Micro-credit on project beneficiaries
9	Ms. K. Padma	Systems Officer	Provide systems analysis support to all team members.
10	Mr. P. Lakshmi Narayana	Anthropologist	Study the social impact of the project and analyse the community participation aspect of the project.
11	Mr. P. Sai Prasad Rao	PRA Expert	Assess the qualitative benefits of the project through DRA exercise.
12	Mr. K. Chandra Raju	Process Evaluation Expert	Evaluation the process of project implementation at various stages.

5.06 Since the study would be carried out jointly by AFC and TCR & TI, it is proposed that a Joint Project Management Committee (JPMC) would be constituted by drawing members from both AFC and TCR & TI. The JPMC would be represented by two members each from AFC and TCR & TI. The JPMC would share the responsibility of overall coordination of the study and guiding all the team members at various stages with Project Director.

5.07 The curriculum vitae of above indicated experts are presented in Appendix - V.1 to V.12. In addition to the above indicated technical/managerial staff AFC would deploy adequate support staff for carrying out various tasks such as field survey, computer programming, data entry and other secretarial functions.

5.08 Further, since the field survey is planned to be completed in two months time in all the five project districts, AFC would deploy a team of five investigators in each of the five project districts. As far as possible these field investigators for the study would be identified with a Post-Graduate degree in social studies and preference will be given for candidates with research experience. The field investigators would be trained thoroughly before starting field survey by both senior level experts and survey experts for canvassing various schedules.

CAPABILITY OF THE TEAM

5.09 The experts in the team are fully aware of the socio-economic conditions of tribals in the state and are mostly conversant with the local language namely Telugu. Most of the experts in the team had long years of experience in respective fields in the state and also had their education in the state or adjoining states. Majority of the experts in the team were associated with APPTDP at some or other stage and are well aware of its contents and coverage. By virtue of their having long years of experience and exposure to the project, they are considered eminently suitable specialists for the purposed impact evaluation study under APPTDP. The consulting firms viz. AFC and TCR & TI been serving the state of Andhra Pradesh for over two decades and formulated large number of studies in social sector and agriculture and allied sectors. The experts in the team are also having exposure to other countries and are having adequate background in preparation of impact/mid term evaluation of external aided projects namely World Bank, IFAD, UNDP, EEC, OECF, etc.

CURRICULUM VITAE OF DR. D.V. RAMANA

PROPOSED POSITION IN THE TEAM	:	SOCIOLOGIST AND TEAM LEADER
NAME OF FIRM	:	AGRICULTURAL FINANCE CORPORATION LTD., HYD.
NAME	:	DR. D.V. RAMANA
PROFESSION	:	PROJECT DIRECTOR / ASSISTANT GENERAL MANAGER, AFC, HYDERABAD
DATE OF BIRTH	:	12.04.1947
YEARS WITH FIRM	:	18 YEARS
NATIONALITY	:	INDIAN
MEMBERSHIP WITH PROFESSIONAL SOCIETIES	:	MEMBER INTERNATIONAL 'SHALOM' SOCIETY
DETAILED TASKS ASSIGNED	:	SOCIAL IMPACT ASSESSMENT VULNERABILITY ASSESSMENT, DESIGNING STUDY TOOLS FOR BASELINE SURVEY OF DISASTER AWARENESS AND ATTITUDES, IMPLEMENTATION OF PVAS AND PMP EXERCISES AND INVOLVEMENT IN ALL STUDY COMPONENTS AND LEADING THE TEAM FROM BEGINNING TO THE END TILL COMPLETION OF THE STUDY.

KEY QUALIFICATIONS

HE IS THE PROJECT DIRECTOR FOR OVER 60 PROJECTS ON AGRICULTURE, IRRIGATION AND WATER MANAGEMENT, ENVIRONMENTAL MANAGEMENT PLANNING, WASTELAND DEVELOPMENT, WATERSHED DEVELOPMENT, PARTICIPATORY TRIBAL DEVELOPMENT, PARTICIPATORY IRRIGATION MANAGEMENT, AGRI-BUSINESS AND RURAL CREDIT ALSO PROJECT COORDINATOR FOR ABOUT 20 PROJECTS, PARTICIPATED IN INTERNATIONAL WORKSHOP ON GRAIN STORAGE AND MARKETING, AT ISRAEL AND PRESENTED A PAPER ON 'GRAIN STORAGE AND PUBLIC DISTRIBUTION IN INDIA' DURING 1993. CONDUCTED INTERNATIONAL WORKSHOP FOR FIAD PHASE-I ANDHRA PRADESH TRIBAL DEVELOPMENT PROJECT (1991). HAD OVER 15 YEARS OF EXPERIENCE AS PROJECT DIRECTOR AT THE AGRICULTURAL FINANCE CORPORATION LTD. PRIOR TO THIS SERVED AS ASSISTANT DIRECTOR AND AT DIFFERENT CAPACITIES FROM RESEARCH ASSOCIATE TO ASSISTANT DIRECTOR IN THE FACULTY OF AREA PLANNING AT NATIONAL INSTITUTE OF RURAL DEVELOPMENT, HYDERABAD AND ASSOCIATED WITH OVER 25 PROJECTS AND STUDIES AND CONTRIBUTED ABOUT 12 RESEARCH PAPERS. ALSO CO-AUTHOR OF 'GUIDELINES ON PLANNING MONITORING AND EVALUATION OF RURAL DEVELOPMENT PROJECTS' PREPARED FOR CIRDAP, BANGLADESH WHILE WORKING AT NIRD. ALSO ACTED AS RESOURCE PERSON IN THE WORKSHOP OF THE SAID REPORT DURING MARCH, 1992. CURRENTLY HE IS HEADING THE AFC REMOTE SENSING APPLICATIONS AND RESOURCES MANAGEMENT CENTRE (AFC-RARMC) HYDERABAD SUPPORTING VARIOUS REMOTE SENSING REQUIREMENTS FOR VARIOUS STUDIES/PROJECTS UNDERTAKEN BY AFC.

EDUCATION

M.A. (SOCIOLOGY) ANDHRA UNIVERSITY
PHD ON REGIONAL PLANNING FROM ANDHRA UNIVERSITY

EMPLOYMENT RECORD

1983-TODATE : PROJECT DIRECTOR. AGRICULTURAL FINANCE CORPORATION LTD.
MUMBAI.

1970-82 : ASSISTANT DIRECTOR. SENIOR RESEARCH ASSOCIATE AND RESEARCH
ASSOCIATE AT NATIONAL INSTITUTE OF RURAL DEVELOPMENT.
HYDERABAD.

LANGUAGES KNOWN

ENGLISH
TELUGU
HINDI

SPEAKING
EXCELLENT
EXCELLENT
GOOD

READING
EXCELLENT
EXCELLENT

WRITING
EXCELLENT
EXCELLENT

CERTIFICATION

I, THE UNDERSIGNED, CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DATA
CORRECTLY DESCRIBE ME, MY QUALIFICATIONS, AND MY EXPERIENCE.

DATE:

[SIGNATURE OF STAFF MEMBER AND

AUTHORIZED REPRESENTATIVE OF THE FIRM]

FULL NAME OF STAFF MEMBER
RESIDENTIAL ADDRESS

FULL NAME OF
AUTHORIZED REPRESENTATIVE

DR. DUDALA VENKATA RAMANA

AGRICULTURAL FINANCE CORPORATION LTD.

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CURRICULUM VITAE

1. Name : D. APPA RAO
2. Date of Birth : 25th April, 1941
3. Nationality : Indian
4. Mailing address : Dr.D.Appa Rao
Professor & Associate Dean, (Retd)
College of Agricultural Engineering,
Bapatla - 522 101.
Phone No.08643 - 24068
5. Permanent address : Dr.D.Appa Rao
85, Sri Vivekananda Colony,
Suryalanka Road,
Bapatla - 522 101
Phone No.08643 - 24485

6. Academic Record

Degree	Year	University/ Institution	Specialization	Class / OGPA
B.Sc.(Ag.Engg.)	1966	Allahabad Agricultural Institute, Allahabad University	Agricultural Engineering	I class
M.Tech.(Ag.Engg.)	1968	Indian Institute of Technology, Kharagpur	Soil and Water Conservation Engineering	No class is awarded by IIT
Ph.D. (Ag.Engg.)	1987	Indian Institute of Technology, Kharagpur	Hydraulic Structures & Irrigation Engineering and Soil & Water Conservation Engineering	- do -

7. Professional Experience: (Entire service is in Acharya N.G.Ranga Agricultural University only)

Office to which attached	Post held	Duration		Specific experience Teaching/ Research
		From	To	
Agricultural College, Bapatla	Instructor	10-09-68	30-11-69	Teaching
S.V. Agricultural College, Tirupati	Assistant Professor	01-12-69	14-07-75	- do -
Agricultural College, Bapatla	- do -	15-07-75	27-05-75	- do -
- do -	Associate Professor	28-05-77	17-05-78	- do -
- do -	- do -	18-05-78	10-03-82	- do -
College of Agriculture, Rajendranagar, Hyderabad	Scientist - I (Soil & Water Engg.)	11-03-82	13-02-83	Research
AICRP on Agricultural Drainage, ARS, Machilipatnam	Research Scholar	14-02-83	08-07-86	Research
IIT, Kharagpur	Associate Professor	09-07-86	27-05-90	Teaching
College of Agricultural Engineering, Bapatla	Professor	28-05-90	07-02-94	Teaching
- do -	Professor & Principal	08-02-94	09-02-97	Teaching and Administration
Indo-Dutch Project, Agricultural College Farm, Bapatla	Chief Scientist & Principal i/c of College of Agricultural Engineering, Bapatla	10-02-97	19-11-98	Research, Teaching & Administration
College of Agricultural Engineering, Bapatla	Professor & Associate Dean	20-11-98	Continuing (Retiring / retired on 30-04-2001 AN)	Teaching & Administration

8. Participation in workshops/ summer schools

- Participated in Summer Institute on "Ground Water & Wells and Hydraulics of irrigation methods" for teachers/ research workers organized at Orissa University of Agriculture & Technology, Bhubaneswar from 1st June to 30th June, 1975.
- Participated in a training course on "Water Management" organized at Water Technology Centre, Indian Agricultural Research Institute, New Delhi from 23rd February to 19th March' 1976.
- Participated in Summer School on "Moderanisation of Irrigation Systems" organized at Department of Civil Engineering, Indian Institute of Technology, Kharagpur from 6-18th June, 1983 under quality improvement programme, Ministry of Education, Government of India.
- Participated in Summer School on "Appropriate Technology in Water Resources Development and Management" organized by the Rural Development Centre, Indian Institute of Technology, Kharagpur from 21st May to 4th June' 1984.
- Participated in the Continuing Education Programme on "Remote Sensing Techniques & Applications" organized by the Department of Personnel & Training, Government of India at Engineering staff college of India, Hyderabad from 17th - 22nd, October' 1994.

9. Training Abroad

Successfully completed international course on "Drainage Execution and Maintenance" under Indo-Dutch Network programme organized by the International Institute for Land Reclamation and Improvement (ILRI), Wageningen, the Netherlands and the Institute for Land Water Management and Waste Water Treatment (RIZA), Lelystad, the Netherlands from 11th August to 12th September'1997.

10. Academic publications

Published about 14 technical papers and popular articles in different journals as detailed below:

Title of research paper	Nature of publication	Name of the Journal
1. Upstream channel conditions affecting coefficient of discharge of Sharp crested rectangular weirs	Original Research Paper	Andhra Agricultural Journal
2. Influence of upstream channel geometry on sharp crested rectangular weir coefficient	- do -	The Harvestest
3. Rainfall Probability analysis for Machilipatnam region of Andhra Pradesh	- do -	Andhra Agricultural Journal vol.36, 2 & 3. 98-245, 1989
4. Development of portable Semicircular Water measuring device	- do -	-do -
5. Application of dimensional analysis using the method of repeating variables	- do -	Vol. 36(1), 1-97, 1989
6. Effect of Irrigations and Sources of Phosphorous on the growth and yield of Rabi blackgram.	Research Note	- do
7. Optimization of stilling basin parameters of small drop structures for minimum scour.	Seminar paper	Proceedings of the AI India Seminar on Rice Production Equipment organized by the Institution of Engineers (INDIA)
8. Development of Optimal Stilling Basins	Original Research paper	Journal of Agricultural Engineering (ISAE)
9. Farm ponds for assured cultivation in Coastal Saline area	News letter	APNAE - Andhra Pradesh News in Agril. Engg.
10. Studies on Scour Phenomenon Downstream & Drop Structure	Review paper	Journal of Hydrology (IAH)
11. Effect of tail water depth and height of conventional rectangular end sills on scour a drop structure	- do -	- do -
12. Evaluation of Friction Factors for Trickle lateral pipe by K.Yella Reddy, D.Appa Rao, A Satya Prasad and M. Madhava	Original Research paper	Andhra Agricultural Journal Vol. 46(1 & 2), 87-92, 1999
13. Evaluation of on line Trickle irrigation emitter constants by K.Yella Reddy, D.Appa Rao	- do -	Journal of Institution of Engineers Vol.81, June, 2000
14. Evaluation of online Trickle irrigation emitter barb losses	Seminar paper	Presented in International Conference on Micro Sprinkler Irrigation systems 8-10 February, 2000 held at Jalgaon Maharashtra.

11. Student Projects :

The following were the topics on which the students were guided for their project work during their final year study.

- a) Effect of Polyethylene Glycol and Commercial Paste on Radius of Coverage, Power consumption and Drag in Sprinkler Irrigation.
- b) Rainfall Probability and Drought Analysis for Machilipatnam division of Andhra Pradesh.
- c) Studies on Modified Semi-Circular Broad-Crested Weirs for Low Discharges.
- d) Modification of Pantnagar Foot Valve and its performance comparison with commercial foot valves.
- e) Characteristic curves for low Discharge Centrifugal pumps.
- f) Modification and evaluation of Bapatla foot valve.
- g) Evaluation of seepage loss in the field channels with different lining materials.

12. Participation in Seminars/ Workshops/ Conferences

Participated in about 15 National conferences/ Workshops in the subjects related to Irrigation Drainage, Hydraulics, Soil & Water Conservation Engineering and Water Resources Development.

13. Fields of Academic Interest

Irrigation and Drainage Engineering, Water Management, application of optimization techniques and operational research to water resources management, soil and water conservation Engineering.

14. Memberships for professional bodies :

- Life Member of Indian Society of Agricultural Engineers (LIMSAE), New Delhi.
- Member of Indian Association of Hydrologists (MIAH), Roorkee
- Member of Andhra Agricultural Journal, Bapatla.

15. Award :

Honoured by the Indian Council of Agricultural Engineers (AP Chapter) for valuable contribution to promote Agricultural Engineering profession and rendering distinguished services to the Indian Society of Agricultural Engineers.

16. Research work and outcome :

I initiated an all India Co-ordinate Research Project on Agricultural Drainage in Krishna district at Endakuduru, Machilipatnam Taluq with an objective to identify the reasons for water logging and accumulation of salts and to develop a technology for reclamation of land for increasing the productivity. I was posted as Scientist (SWE) in the scheme to carry out the Research work. I was in the scheme at Machilipatnam for about an year and I have undertaken the work on 1) identification of areas 2) surveying part 3) collection of data on rainfall, number of farmers involved and 4) a plan of work was initiated. After one year, I had been to IIT, Kharagpur for my Ph.D. work.

A drainage project under Indo-Dutch collaborative network programme was started in Agricultural College Farm, Bapatla and I have been posted as Chief Scientist in the project. During my stay as Chief Scientist from 10th February, 1997 to 19th November, 1998, I was involved in identifying the pilot areas under NSP Right Canal Command and Krishna Western Delta at Konanki and Uppugunduru to take up studies on surface and sub-surface drainage. During the said period, survey was conducted and required data was also collected. The designs for sub-surface drainage and open drains were finalised. In Andhra Pradesh, the areas affected by water logging and salinity are estimated to be 2.72 lakh ha and 1.15 lakh ha respectively under canal commands alone. The impact of irrigation over many years has caused the ground water table to rise into root zones in these command areas which led to reduction in crops yields. The irrigation induced water logging and salinity is relatively a recent feature in most of the commands. The Indo-Dutch Network Project Centre, Bapatla was one of the four co-ordinating Network centers in India conducting operational Research on solutions to drainage and salinity problems in farmers fields in canal commands of Andhra Pradesh. Initially, two pilot areas at Konanki and Uppugunduru in Prakasam district under NSP right canal commands and Krishna Western Delta respectively have been selected to conduct operational research. The Konanki pilot area has a serious problem of water logging and Uppugunduru pilot area has a serious problem of salinity.

Presently, the installation of sub-surface and open drains part was also completed and the system is under monitoring stage.

16. Current Interest and Assignments

Presently engaged in teaching the under graduate students of Agricultural Engineering in subjects like Soil and Water Conservation Engineering, Hydrology and Watershed Management, Irrigation Engineering, Drainage Engineering, Systems Analysis, Wells and Pumps and Design and Cost evaluation of Soil Conservation & Irrigation Structures. Also engaged in the departmental research activities and supervising the student's research project works.

17. Languages known:

Telugu, English and Hindi

18. Other information:

Administration :

- Acted as Head of the Department for the department of Agricultural Engineering over 10 years in the capacity of the Assistant Professor, Associate Professor at S.V. Agricultural College, Tirupati and Agricultural College, Bapatla.
- Assumed the charge of Principal, College of Agricultural Engineering, Bapatla on 8th February, 1994 and continued till retirement on 30-4-2001. During the period of Principal, entire responsibility relates to Administrative matters and Academic matters pertains to college was on the Principal. Performed the duty as an administrator to the utmost satisfaction of all the superiors.
- During the tenure as Professor & Principal, I have actively involved in revising the syllabus of B.Tech.(Ag.Engg.) programme twice.
- As the college was shifted to its new campus in the year 1994, I played a key role in establishing different laboratories and workshops and land development activity in the new campus.
- Officer-in-charge for academic matters over 5 years.

Extension :

- Actively participated in the organization of Kisan melas, Rythu Sadassus at different places including the college campuses and field demonstration of Agricultural implements and micro-irrigation systems in the farmers fields.

19. Other assignments :

- Acted as Joint Secretary cum Treasurer for the AP Chapter of Indian Society of Agricultural Engineers and took active part in organizing the annual conventions of the chapter at different places in the state.
- Acted as member in selection committees for selection of different types of posts from technical cadre to scientist cadre in the Institutes like CRIDA, ICAR
- Acting as Chairman and also as member in assignment committee in the Institutes like CRIDA, Hyderabad; IIHR, Bangalore; CTRI, Rajahmundry.
- I am also one of the Board Directors of AP State Agro Industries Corporation since 1994 and will be continued till April, 2001.
- Acted as external examiner for M.Tech. and Ph.D. programmes in several universities.
- Acted as one of the members in revision of syllabus for Indian First service examinations.

CURRICULAM VITAE OF SHRI CH. VENKATESWARA RAO

NAME : CH. VENKATESWARA RAO

PROFESSION : CHIEF ENGINEER (IRRIGATION) (Retired)

NATIONALITY : INDIAN

AREAS OF SPECIALISATION : HYDROLOGY AND SURFACE WATER RESOURCES. PLANNING AND DESIGNING IRRIGATION SYSTEMS. LAND AND WATER MANAGEMENT. MAJOR. MEDIUM AND MINOR IRRIGATION PROJECTS. DRAINAGE MANAGEMENT IN COASTAL ZONE.

PROPOSED POSITON : IRRIGATION AND DRAINAGE MANAGEMENT EXPERT

KEY QUALIFICATIONS

SERVED IN THE IRRIGATION AND COMMAND AREA DEVELOPMENT DEPARTMENT OF GOVERNMENT OF ANDHRA PRADESH FOR OVER 37 YEARS AND HELD DIFFERENT KEY POSITIONS STARTING FROM JUNIOR ENGINEER WITH THE HIGHEST LEVEL OF CHIEF ENGINEER IRRIGATION. CURRENTLY WORKING AS IRRIGATION EXPERT WITH THE AGRICULTURAL FINANCE CORPORATION LTD HYDERABAD. INVOLVED IN FORMULATION OF IRRIGATION PROJECTS. PLANNING. INVESTIGATION. DESIGN OF PROJECT COMPONENTS. PREPARATION OF TECHNICAL NORMS. DESIGNS AND COST ESTIMATES FOR VARIOUS COMPONENTS OF THE PROJECT. AS A CHIEF ENGINEER HE WAS OVERALL MONITORING THE MAJOR AND MEDIUM IRRIGATION PROJECTS INCLUDING PREPARATION OF PROJECT REPORTS AND IMPLEMENTATION OF A MAJOR IRRIGATION PROJECT ASSISTED BY OECF AND A MAJOR IRRIGATION PROJECT FUNDED BY GOAP. HAVING WIDE RANGING EXPERIENCE IN SURFACE WATER MANAGEMENT. MAINTENANCE OF THE IRRIGATION SYSTEMS. DRAINAGE. ETC.

TEAM LEADER IN THE PREPARATION OF APERP MINOR IRRIGATION DEVELOPMENT PROJECT FOR WORLD BANK ASSISTANCE WHICH IS CURRENTLY UNDER IMPLEMENTATION. HE WAS ALSO EXPERT FOR MINOR AND SMALL SCALE IRRIGATION IN THE AP PARTICIPATORY IRRIGATION DEVELOPMENT PROJECT.

EDUCATION:

B.E.. CIVIL ENGINEER. (ANDHRA UNIVERSITY) AND FIE..

EXPERIENCE:

4/1999-TODATE

IRRIGATION EXPERT FOR VARIOUS PROJECTS UNDERTAKEN BY AFC. HYDERABAD.
CHIEF ENGINEER. I & CAD. GOAP (INCLUDING RE-APPOINTMENT AS CHIEF ENGINEER AFTER RETIREMENT).

1996-98

SUPERINTENDING ENGINEER. IRRIGATION. GOAP
HELD POSITIONS SUCH AS EXECUTIVE ENGINEER. DY. EXECUTIVE ENGINEER AND JUNIOR ENGINEER IN IRRIGATION DEPARTMENT OF GOAP

1995-1996

1961-1994

LANGUAGES KNOWN

ENGLISH
TELUGU
HINDI

SPEAKING
EXCELLENT
EXCELLENT
FAIR

READING
EXCELLENT
EXCELLENT
-

WRITING
EXCELLENT
EXCELLENT
-

CONTACT ADDRESS:

CH. VENKATESWARA RAO. B.E., FIE.,
CHIEF ENGINEER (RETD)
S.F."E" APARAJITA APARTMENTS
PITCHAIAH STREET, LABIEPET
NEAR CHIENNUPATI SERVICE STATION
VIJAYAWADA - 520 010.
KRISHNA DISTRICT - (AP).
PHONE NO.: 040 3046630.
0866 482887.

CURRICULUM VITAE OF MR. U.M.LAL

1 NAME : UDAY MOHAN LAL
 2 DATE OF BIRTH : 11-1-1939
 3 PROFESSION / PRESENT DESIGNATION: ENVIRONMENTALIST
 4 NATIONALITY : INDIAN
 5 AREA OF SPECIALISATION : AGRICULTURE AND ENVIRONMENT
 6 PROPOSED POSITION ON TEAM : ENVIRONMENTALIST
 7 KEY QUALIFICATIONS :

TEAM LEADER FOR ENVIRONMENTAL STUDIES UNDERTAKEN BY AFC, HYDERABAD. HE WAS ASSOCIATED WITH ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PLAN FOR FOUR MEDIUM IRRIGATION PROJECTS NAMEDLY KOVVADAKALVA RESERVOIR SCHEME. BAHUDA RESERVOIR SCHEME. PEDDEGEDDA RESERVOIR SCHEME. BHUPATHIPALEM RESERVOIR SCHEME AND ALSO TWO MAJOR IRRIGATION SCHEMES NAMEDLY GALERI NAGARI AND HANDRI NIVA PROJECTS IN RAYALASEEME REGION OF ANDHRA PRADESH.

8 EDUCATION :

DEGREE
 COLLEGE/UNIVERSITY

DATE ATTENDED

I) POSTGRADUATE LEVEL TRAINING
 IN SUNFLOWER PRODUCTION :

1980 UNIVERSITY OF AGRICULTURE
 NOVISAD, YUGOSLAVIA

II) BACHELOR OF SCIENCE
 (AGRICULTURE) :

1960 OSMANIA UNIVERSITY, HYDERABAD.

SEMINARS :

ATTENDD THE INTERNATIONAL SEMINAR ON PRODUCTION AND DEVELOPMENT OF SUNFLOWER IN DEVELOPING COUNTRIES HELD ON YULOSLAVIA IN 1981 - PRESENTED A PAPER 'SUNFLOWER' - A POTENTIAL OILSEED CROP FOR MAHARASHTRA AND CHAIRED ONE SESSION RELATING TO AGRONOMY IN THE SEMINAR.

9 EXPERIENCE :

FROM 1997 TO TILL DATE

CONSULTANT AGRICULTURE. AGRICULTURE FINANCE CORPORATION. LTD. DELHI AND HYDERABAD.

DUTIES

STUDYING THE VULNERABLE AREAS OF SUBMERSION DUE TO RESEVOIR CONSTRUCTION FOR AND PREPARATION OF MITIGATIVE PLANS FOR THE IRRIGATION PROJECTS IN A.P.

FROM 1963 TO 1997

DETAILS OF OILSEEDS DEVELOPMENT. DEPUTY DIRECTOR, GOVERNMENT OF INDIA. HYDERABAD.

DUTIES

- I) PREPARATION OF ANNUAL PLANS AND FIVE YEAR PLANS FOR OILSEEDS DEVELOPMENT IN THE COUNTRY.
- II) EVALUATION OF THE CENTRALLY SPONSORED SCHEMES.
- III) PREPARATION OF TECHNICAL NOTES BRIEFS AND REPORTS.
- IV) ORGANISING OF OILSEEDS DEVELOPMENT COUNCIL MEETINGS. SUNFLOWER AND SAFFLOWER IMPLEMENTATION COMMITTEE MEETINGS. PREPARATION OF AGENDA NOTES AND PROCEEDINGS OF THE SAID MEETINGS.
- V) PARTICIPATION IN RESEARCH WORKSHOPS ON OILSEED CROPS AS WELL AS PRESENTING PAPERS IN THE SUMMERS.
- VI) DELIVERING LECTURES ON OILSEEDS DEVELOPMENT IN THE TRAINING PROGRAMMES ORGANISED BY ICAR. SBI. AND STATE DEPARTMENT OF AGRICULTURE.

FROM 1960 TO 1963
DUTIES

- I) ORGANISATIN OF AGRICULTURE DEVELOPMENT WORK IN PANCHYAT SAMITHI. HAYATNAGAR. RANGAREDDY DISTRICT. ANDHRA PRADESH.
- II) CONDUCT OF MARKET SURVEY OF AGRICULTURAL COMMODITIES IN THE MARKETING UNIT OF AGRICULTURE DEPARTMENT OF ANDHRA PRADESH.

10 LANGUAGES KNOWN :

ENGLISH
HINDI
TELUGU
URDU
SERBO-
CROTIAN

READ
EXCELLENT
EXCELLENT
GOOD
GOOD

FAIR
(YUGOSLAVIA LANGUAGE)

WRITE
EXCELLENT
EXCELLENT
GOOD
GOOD

SPEAK
EXCELLENT
EXCELLENT
GOOD
GOOD

CONTACT ADDRESS:

UDAY MOHAN LAL
H.NO. 7-1-282/C150,
SREERAM NAGAR COLONY
BALKAMPET
HYDERABAD 500 038.
PHONE NO.: 3711453

CURRICULUM VITAE OF SHRI SHAREEFUDDIN AHMED

NAME : SHAREEFUDDIN AHMED

DATE OF BIRTH : 25-6-1941

PROFESSION : (RETD.) JOINT DIRECTOR OF AGRICULTURE

NATIONALITY : INDIAN

AREAS OF SPECIALISATION : AGRICULTURAL EXTENSION, WATERSHED DEVELOPMENT PLANNING AND EXECUTION OF WORKS.

PROPOSED POSITION IN THE TEAM : CONSULTANT

KEY QUALIFICATIONS : EXPERIENCED. WORKING IN AGRICULTURAL DEPARTMENT IN DIFFERENT BRANCHES. LIKE AGRICULTURAL EXTENSION, SEED MULTIPLICATION, DEVELOPMENT PLANNING, WATERSHED DEVELOPMENT PLANNING AND EXECUTION OF WORK.

EDUCATION : M.SC. (AGRICULTURE)

EXPERIENCE : DETAILED NOTE IS ENCLOSED.

LANGUAGES KNOWN	READ	WRITE	SPEAK
ENGLISH	YES	YES	YES
TELUGU	YES	YES	YES
HINDI	YES	YES	YES
URDU	YES	YES	YES

CONTACT ADDRESS :
 16-2-739/12, ASMANGADH T V TOWER.
 MALAKPET, HYDERABAD - 500 036.
 PHONE NO. : 4065441.

CURRICULUM VITAE OF Mr. M. DHARMA REDDY

PROPOSED POSITION IN THE TEAM : MONITORING AND EVALUATION EXPERT

NAME OF THE FIRM : AGRICULTURAL FINANCE CORPORATION. LTD. CHENNAI

NAME : M. DHARMA REDDY

PROFESSION : ASSISTANT GENERAL MANAGER, AFC, CHENNAI

DATE OF BIRTH : 15.6.1950

YEARS WITH FIRM : 23 YEARS

NATIONALITY : INDIAN

MEMBERSHIP IN PROFESSIONAL SOCIETIES : NO

DETAILED TASKS ASSIGNED : GET ASSOCIATED WITH ONGOING STUDY TOOLS. STATISTICAL SAMPLING DESIGN. PREPARATION OF MONITORING FORMATS. ORGANISING BASELINE SURVEY. IMPLEMENTATION OF PVAs AND PMP EXERCISES. DESIGNING MANUAL AND TRAINING MODULES.

KEY QUALIFICATION

HAS SPECIALISED IN CARRYING OUT MONITORING AND EVALUATION STUDIES RELATING TO WATERSHED AND IRRIGATION MANAGEMENT, LAND USE PLANNING, MARINE FISHERY RESOURCES, ANIMAL HUSBANDRY AND HORTICULTURAL PRODUCTS AND FEASIBILITY STUDIES DURING PAST 23 YEARS. THIS EXPERIENCE IS GAINED IN INDIA WHILE WORKING FOR CENTRAL MARINE FISHERY RESEARCH INSTITUTE, COCHIN (1976), INDIAN INSTITUTE OF MANAGEMENT AHMEDABAD, (1977-83), NATIONAL FEDERATION OF STATE COOPERATIVE BANKS LTD, BOMBAY (1983-87) AND AGRICULTURAL FINANCE CORPORATION LTD., (1987 - TILL DATE). KEY EXPERIENCE INCLUDES THE FOLLOWING:

SINCE 1995, I HAVE BEEN WORKING AS THE MANAGER & INCHARGE OF AFC, CHENNAI. AS MANAGER & INCHARGE, I HAVE COORDINATED AND MANAGED SMOOTH FUNCTIONING OF THE BRANCH OFFICE. MADE ALL EFFORTS FOR BUILDING UP OF BUSINESS BY MAINTAINING LIAISON WITH VARIOUS GOVERNMENT OFFICES, BANKERS AND OTHER AGENCIES.

PROVIDED FULL SUPPORT AND COORDINATION TO THE TEAM MEMBERS WORKING ON DIFFERENT ASSIGNMENTS. STRIVED FOR ECONOMY IN OFFICE EXPENDITURE. TRIED TO TAKE UP INNOVATIVE ASSIGNMENTS IN THE AREAS OF REMOTE SENSING AND GIS, REGULATED MARKET STUDIES, ENGINEERING SURVEYS USING REMOTE SENSING ETC., EVEN OUTSIDE THE STATE OF TAMIL NADU.

EDUCATION

M.SC., (STATISTICS)
DIPLOMA IN COMPUTER PROGRAMMING AND SYSTEMS DESIGNING

EMPLOYMENT RECORD

I HAVE BEEN ASSOCIATED WITH OVER 25 STUDIES BETWEEN 1995 AND 1999 EITHER AS TEAM MEMBER OR TEAM LEADER/COORDINATOR. SOME OF THE IMPORTANT ASSIGNMENTS ARE LISTED BELOW.

- * TEAM MEMBER. FARMING SYSTEM STUDY FOR THE DEVELOPMENT OF WASTELANDS IN KUTCH DISTRICT OF GUJARAT STATE : 1995:
- * TEAM MEMBER. MANAGEMENT INFORMATION SYSTEM STUDY ON SHORT TERM COOPERATIVE FOR TAMIL NADU STATE APEX COOPERATIVE BANK LTD : 1995:
- * TEAM MEMBER. MANAGEMENT INFORMATION SYSTEM STUDY ON LONG TERM CREDIT STRUCTURE FOR TAMIL NADU COOP STATE LAND DEVELOPMENT BANK : 1995:
- * TEAM LEADER. TECHNO-ECONOMIC EVALUATION OF VGP TEAK PLANTATIONS : 1997:
- * PROJECT COORDINATOR FOR STUDY ON SEPARATE REGULATED MARKETS FOR SALE OF GOATS AND SHEEP IN TAMIL NADU : 1998:
- * PROJECT COORDINATOR MARKETING ACTION PLAN FOR TAMIL NADU HORTICULTURAL PRODUCERS COOPERATIVE ENTERPRISES LTD., (TANHOPE), FOR SALE OF FRUITS, VEGETABLES AND FLOWERS. 1996:
- * TEAM LEADER. QUICK EVALUATION STUDY OF PILOT AGRO-CLIMATIC REGIONAL PLANNING PROJECT IN MAINKANDAN BLOCK, TIRUCHIRAPALLI DISTRICT, TAMIL NADU. 1997:
- * TEAM LEADER. STUDY OF TECHNO-ECONOMIC FEASIBILITY FOR SETTING UP A REGULATED MARKET FOR PADDY IN MADURAI. 1997:
- * TEAM LEADER. TECHNO-ECONOMIC FEASIBILITY FOR SETTING UP OF THREE MARKET COMPLEXES FOR PADDY, TURMERIC AND COCONUT . 1999:
- * TEAM LEADER. DIGITISED MICRO-WATERSHED ATLAS FOR RAEBARELI DISTRICT, UTTAR PRADESH. 1998:
- * TEAM MEMBER. HORTICULTURE MASTER PLAN IN ORISSA. 1998:
- * TEAM LEADER. TERMINAL EVALUATION OF TAMIL NADU WOMEN'S DEVELOPMENT PROJECT ASSISTED BY IFAD. ONGOING:
- * TEAM LEADER. STUDY OF COST EFFECTIVENESS AND TRANSACTION COST OF TAMIL NADU WOMEN'S DEVELOPMENT PROJECT ASSISTED BY IFAD. ONGOING:
- * TEAM LEADER. EVALUATION STUDY OF PUMPSETS AND ALLIED ACCESSORIES INSTALLED BY TWAD BOARD UNDER RURAL WATER SUPPLY SCHEME AT 80 HABITATIONS. ONGOING:
- * TEAM LEADER. DEVELOPMENT OF 350 ACRES FARM IN THANJAVUR DISTRICT, TAMIL NADU. ONGOING:

- * TEAM LEADER. PREPARATION OF DETAILED PROJECT REPORT FOR CULTIVATION OF COTTON ON COMMERCIAL BASIS, ONGOING.
- * TEAM LEADER. PREPARATION OF DETAILED PROJECT REPORT FOR REJUVENATION OF TANKS IN VELLORE DISTRICT, ONGOING.

LANGUAGES	SPEAK	READ	WRITE
ENGLISH	EXCELLENT	EXCELLENT	EXCELLENT
TELUGU	EXCELLENT	EXCELLENT	GOOD
HINDI	GOOD	GOOD	GOOD.
TAMIL	GOOD	GOOD	GOOD
GUJARATHI	GOOD	GOOD	GOOD

CERTIFICATION:

I, THE UNDERSIGNED, CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DATA CORRECTLY DESCRIBE ME, MY QUALIFICATIONS, AND MY EXPERIENCE.

DATE:

SIGNATURE OF STAFF MEMBER AND

AUTHORISED REPRESENTATIVE OF THE FIRM

M. DHARMA REDDY

FULL NAME OF STAFF MEMBER:

AGRICULTURAL FINANCE CORPN. LTD.

FULL NAME OF AUTHORISED

CURRICULUM VITAE OF P. LAKSHMI NARAYANA

Proposed Position : Consultant

Name of Firm : Agricultural Finance Corporation Limited, Hyderabad

Name of Staff : **P. LAKSHMI NARAYANA**

Profession : Director, Tribal Cultural & Training Institute

Date of Birth : 31.01.1945

Years with Firm/Entity : -

Nationality: Indian : **Indian**

Membership in Professional Societies :

Key Qualifications

Education

Academic

Sl.No.	Qualifications	University	Year
1	Ph.D (Registered)	Andhra University	2000
2	M.Phil (Socil Anthropology)	Andhra University	1999
3	M.A. (Anthropology)	Andhra University	1968

Technical

Computer Skills

: Au Courant with MS-office (MS-Word, MS-Excel, MS-Power Point).

Employment Record

As guest Lecturer in various study circles for Group 1 students who opted Anthropology.

As guest Lecturer in National Institute of Rural Development and Marri Channa Reddy Institute of Administration on tribal problems of Andhra Pradesh.

Languages

: English, Hindi, Telugu

Important Studies so far conducted

1. Impact Evaluation of Andhra Pradesh Tribal Development Project assisted by International funding for Agricultural Development (IFAD-Rome) implemented in 4 ITDA Departments viz., Srikakulam, Vizianagaram, Visakhapatnam & East Godavari.
2. Land alienation in Scheduled Areas in A.P.
3. Codification of customary Laws of tribals of A.P.
4. Formulated a comprehensive scheme for tribal areas which are infested with extremists.
5. Formulated a comprehensive scheme on Agirijan Vidya Vikas Kendras.
6. Study on Wastage, Stagnation & Absenteeism among Scheduled Tribes in A.P.
7. Dropouts among ST's in A.P.
8. Educational Development in Tribal areas of AP
9. Formulation of Integrated Tribal Developments for Tribal Areas of Visakhapatnam, Khammam, East Godavari & West Godavari districts.
10. Formulation of PTG plans for chenchus, khonds, porjas savaras & gadabas.
11. Formulation of MADA programmes for tribals living outside tribal sub-plan areas.
12. Rationalization of Scheduled Areas.
13. Rationalization of Scheduled Tribes in AP
14. Indebtedness among Scheduled Areas of AP
15. Evaluation of MADA programmes in Nalgond Dist.
16. Evaluation of Remote Interior Area Development Programmes in Tribal Areas of AP
17. Evaluation of Minor Irrigation Schemes in Tribal Areas of AP
18. Status of Women in tribal groups of AP
19. Traditional Vs Statutory leadership among tribal groups of AP.

Certification :

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

(Signature of staff member and
authorized representative of the firm)

Day/Month/Year

Full Name of Staff Member:

P. LAKSHMI NARAYANA

Full Name of Authorized Representative: DR.D.V. RAMANA

CURRICULUM VITAE OF P. SAI PRASAD RAO

Proposed Position	:	Consultant
Name of Firm	:	Agricultural Finance Corporation Limited, Hyderabad
Name of Staff	:	P. SAI PRASAD RAO
Profession	:	DEPUTY DIRECTOR- Tribal Cultural Research & Training Institute
Date of Birth	:	13-05-1946
Years with Firm/Entity	:	
Nationality: Indian	:	Indian
Membership in Professional Societies	:	
Detailed Tasks Assigned	:	<ol style="list-style-type: none"> 1. Poosalas, Nakkalas, Banda and Mondri Banda in connection with people of India Project 2. Konda Doras - brief ethnographic study. 3. Study on customary laws in the State 4. Socio - economic study on Displacement and Rehabilitation due to Major Industries 5. Socio-economic problems in rehabilitation of Podu cultivators. 6. Evaluation of Remote and Interior Areas Development programme 7. Evaluation of Minor Irrigation Scheme in AP 8. Evaluation of Weaker sections housing programme in Visakhapatnam district. 9. Evaluation of Grain Banks scheme in the State 10. Impact Evaluation in APTDP Areas. 11. Formulation of ITDA Plans for tribal areas of Visakhapatnam, Warangal and East Godavari districts. 12. Educational Development plan for Warangal district.

13. Master plan for Development of Minor Irrigation in the State.
14. Accelerated development plan to mean away extremism in the State.
15. Tribal sub-plans
16. Action plans for ITDAs
17. Development plan for MADA
18. Action plan for TRICOR (1995)
19. Besides above studies, associated in several other Research studies conducted by TCR & TI.

Key Qualifications Education

Sl.No.	Qualifications	University	Year
1	M.A (Social Anthropology)		1969
2	P.G. Diploma in Cooperation and Rural Studies		

Employment Record

30 years of Research experience

From 1971	-	Research Investigator
1982	-	Research Assistant
1985	-	Lecturer
1990	-	Dy. Director
1995-97	-	Development Officer
1997	-	Dy. Director

Languages

Certification :

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

(Signature of staff member and authorized representative of the firm)

Day/Month/Year

Full Name of Staff Member:

P. SAI PRASAD RAO

Full Name of Authorized Representative: DR.D.V. RAMANA

Address:

1-8-726/42/7, Padma Colony,
Nallakunta,
Hyderabad - 500 044
Phone No. 040 - 7673171

CURRICULUM VITAE OF K. CHANDRA RAJU

Proposed Position	:	Consultant
Name of Firm	:	Agricultural Finance Corporation Limited, Hyderabad
Name of Staff	:	K. CHANDRA RAJU
Profession	:	Technical Assistant , Tribal Cultural Research & Training Institute, Tribal Welfare Department, GOAP.
Date of Birth	:	15.5.1954
Years with Firm/Entity	:	15 years
Nationality: Indian	:	Indian
Membership in Professional Societies	:	
Detailed Tasks Assigned	:	<ol style="list-style-type: none"> 1. Poo salas, Nakkalas, Banda and Mondri Banda in connection with people of India Project 2. Konda Doras - brief ethnographic study. 3. Study on customary laws in the State 4. Socio - economic study on Displacement and Rehabilitation due to Major Industries 5. Socio-economic problems in rehabilitation of Podu cultivators. 6. Evaluation of Remote and Interior Areas Development programme 7. Evaluation of Minor Irrigation Scheme in AP 8. Evaluation of Weaker sections housing programme in Visakhapatnam district. 9. Evaluation of Grain Banks scheme in the State 10. Impact Evaluation in APTDP Areas. 11. Formulation of ITDA Plans for tribal areas of Visakhapatnam, Warangal and East Godavari districts. 12. Educational Development plan for Warangal district.

13. Master plan for Development of Minor Irrigation in the State.
14. Accelerated development plan to mean away extremism in the State.
15. Tribal sub-plans
16. Action plans for ITDAs
17. Development plan for MADA
18. Action plan for TRICOR (1995)
19. Besides above studies, associated in several other Research studies conducted by TCR & TI.

Key Qualifications

Education

Sl.No.	Qualifications	University	Year
1	M.A (Social Anthropology)		1969
2	P.G. Diploma in Cooperation and Rural Studies		

Employment Record

30 years of Research experience

From 1971	-	Research Investigator
1982	-	Research Assistant
1985	-	Lecturer
1990	-	Dy. Director
1995-97	-	Development Officer
1997	-	Dy. Director

Languages

Certification :

English, Telugu & Hindi

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

(Signature of staff member and authorized representative of the firm)

Day/Month/Year

Full Name of Staff Member:

P. SAI PRASAD RAO

Full Name of Authorized Representative: DR.D.V. RAMANA

Address:

1-8-726/42/7, Padma Colony,

Nallakunta,

Hyderabad - 500 044

Phone No. 040 - 7673171

**INDIA
ANDHRA PRADESH STATE
ANDHRA PRADESH PARTICIPATORY TRIBAL DEVELOPMENT PROJECT
ASSISTED BY IFAD: IMPACT EVALUATION**

TECHNICAL AND FINANCIAL PROPOSAL

VI

**ASSIGNMENT FEES
AND
SCHEDULE OF PAYMENT**

INDIA
ANDHRA PRADESH STATE
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**ASSIGNMENT FEES
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ASSIGNMENT FEES

6.01 As indicated in previous section the study team would consist experts drawn from AFC and TCR & TI. Their approximate time involvement for completing the assignment would be as follows:

Sl. No	Name of Expert	Expertise in	Approximate total involvement (man months)
A	EXPERTS FROM AFC		
1.	Dr.D.V. Ramana	Project Director	2.0
2.	Dr.D.Appa Rao	Agricultural Engineer/Off-farm Development Expert	7.0
3.	Mr. Ch. Venkateswar Rao	Irrigation Expert	4.0
4.	Mr.U.M. Lal	Agriculturist	3.0
5.	Prof. S.P. Seetharaman	SHG Expert	2.0

Sl. No	Name of Expert	Expertise in	Approximate total involvement (man months)
6	Mr. Shariffuddin Ahmed	Horticulturist	3.0
7	Dr. A. Y. Krishna	Livestock Expert	2.0
8	Mr. M. Dharma Reddy	Micro-Credit and Evaluation Expert	3.0
9	Ms. K. Padma	Systems Officer	2.0
	Total		28.0
B	SUPPORT STAFF FROM AFC		
1.	To be identified	Field Investigators	21.0
2.	To be identified	Computer Programmer	3.0
3.	To be identified	Data Entry / Computer Operators	5.0
4.	To be identified	Typist / Computer Operators	3.0
C	EXPERTS FROM TCR & TI		
1.	Mr. P. Laxmi Narayana	Anthropologist	4.0
2.	Mr. P. Sai Prasad Rao	PRA Expert	4.0
3.	Mr. K. Chandra Raju	Process Evaluation Expert	4.0
D	SUPPORT STAFF FROM TCR & TI		
1		Field Investigators	7.0
2.		Secretarial Staff	3.0

Assignment Fee

6.02 The total assignment fees for the captioned study had been estimated to be Rs. 1821.00 thousand. The details are as follows:

Sl.No.	Particulars	Amount (000 Rs.)
I	Honorarium to Experts and Staff	830
II	Travel Cost	263
III	Perdiem of Experts	194

Sl.No.	Particulars	Amount (000 Rs.)
		194
IV	Field Investigators Salary	170
V	Perdium of Field Investigators	85
VI	Printing & Stationery	50
VII	Computer Data Processing	35
VIII	Miscellaneous Expenditure	1821
Total		

SCHEDULE OF PAYMENT

The total Consultancy of Fees of Rs. 18.21 lakh will be payable by TWD of GOAP to Agricultural Finance Corporation Ltd., Hyderabad as per the following schedule of payment.

- 1) 50 percent of total consultancy fees i.e., Rs. 9.11 lakh on initiation of work relating to the assignment ;
- 2) 10 per cent of total fees i.e., Rs. 1.82 lakh on submission of inception report;
- 3) 30 per cent of total fees i.e. Rs. 5.46 lakh on submission of draft report ; and
- 4) 10 per cent of total fees i.e., Rs. 1.82 lakh on submission of final report.