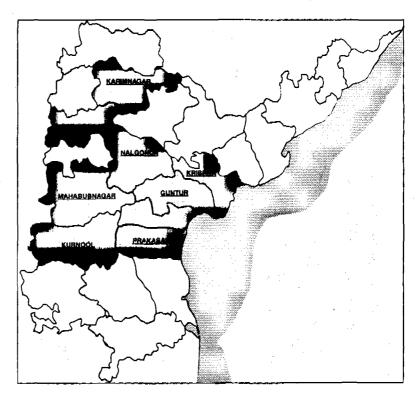






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NETHERLANDS ASSISTED PROJECTS OFFICE

HALF-YEARLY PROGRESS REPORT

APRIL TO SEPTEMBER 1996

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LIST OF ABBREVIATIONS

AEV	Additional Enroute Villages
AIRDS	Local NGO
AP	Andhra Pradesh
APDDCFL	Andhra Pradesh Dairy Development Cooperative Federation Limited
AP I	First generation of Netherlands Assisted projects in AP
AP II	Second generation of Netherlands Assisted Projects in AP
AP III	Third generation of Netherlands Assisted Projects in AP
APSEB	Andhra Pradesh State Electricity Board
ASSIST	Local NGO
BR	Balancing Reservoir
CE	Chief Engineer
CPWS	Comprehensive Piped Water Supply
CPWSS	Comprehensive Piped Water Supply Scheme
C/W	Clear Water
CWA	Clear Water Augmentation
CWST	Clear Water Sump Tank
DC	District Collector
E-n-C	Engineer-in-Chief
EV	Enroute Villages
ES	Effective Size
FRE	Final Revised Estimate
ft	feet
GLSR	Ground Level Service Reservoir
GO	Government Order
GoAP	Government of Andhra Pradesh
GOI	Government of India
GoN	Government of Netherlands
GP	Gram Panchayat
HC	House Connection
HERSELF	Local NGO
H/W	Head Works
IPM	Institute of Preventive Medicine
IPWSS	Individual Piped Water Supply Scheme
lakh	100,000
LIS	Lift Irrigation Scheme
lpcd	Litres Per Capita per Day
MARI	Local NGO
MEP	Minimum Evaluation Procedure
MI	Minor Irrigation
MIS	Management Information System
MODE	Mode Research Private Limited
MPR	Monthly Progress Report
+ MSL	+ Mean Sea Level
NAP	Netherlands Assisted Projects
NAPO	Netherlands Assisted Projects Office
NEERI	National Environmental Engineering Research Institute
NGO	Non-Government Organization
NS	Nagarjuna Sagar
O&M	Operation and Maintenance
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LIST OF ABBREVIATIONS

OHSR	Overhead Service Reservoir
PRA	Participatory Rural Appraisal
PRED	Panchayat Raj Engineering Department
PRFS	Project Reformulation/Feasibility Study on AP-III
PSP	Public Stand Post
PWS	Piped Water Supply
OPR	Quarterly Progress Report
R&B	Roads and Buildings
RGNDWM	Rajiv Gandhi National Drinking Water Mission
RSF	Rapid Sand Filtration
RSM	Review and Support Mission
R/W	Raw Water
RWS	Rural Water Supply
SHGs	Self Help Groups
SM	Support Mission
SNIRD	Local NGO
SSF	Slow Sand Filtration
SST	Summer Storage Tank
TBLLC	Tunga Bhadra Lower Level Canal
TMC	Thousands Million Cubic feet
TP	Treatment Plant
TRM	Technical Review Mission
WHO	World Health Organization
WMF	Water Monitoring Format
WTP	Water Treatment Plant
UC	Uniformity Coefficient
VAC	Village Action Committee
VBO	Village Based Organization
VDS	Village Development Society

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Netherlands Assisted Projects Office

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Netherlands Assisted Projects Office

Half-yearly Progress Report April - September 1996

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MARI Modern Architects for Rural India 13-76, C/o P. Shivchander Court Road, Jogipet Medak District

The Chief Engineer Minor Irrigation Errum Manzil Hyderabad 500 082

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A. INTRODUCTION

This report covers the reporting period April 1996 till September 1996, as far as the physical and financial monitoring of the AP II projects are concerned.

In consultation with RNE we have decided to cover the subjects of completion of the AP II projects and the preparations for an alternative AP III programme in NALGONDA until December, so that the recent developments, including the activities of PRED with NAPO and the support Missions can be included in this report.

Several of the recent progress reports from NAPO have been rather voluminous, also creating a substantial workload for NAPO and staff. This is rooted in the fact that much of the data not documented in the past are now recorded retroactively, and the fact that we are presenting the first efforts in detailed documentation and analyses of data regarding the monitoring of water delivery.

As these tasks should be taken on by the PRED in the near future, we hope that the volume of our reports can be somewhat reduced in the future.

The observations in the report clearly indicate the nearing of completion of the AP II Projects, while specific planning per district for the final completion is presented herewith.

The completion, however, seems to concentrate on completion of physical works and an assessment of the level of operation at that point in time.

Physical completion in our view merely implies "**operationable**", and does not indicate the score on how much water is provided to the users, based on the design parameters, which is considered the basic objective of the entire programme.

After completion of the infrastructure, the Operation and maintenance of the schemes will hence be left as a serious concern.

PRED and NAP Office have discussed initiatives to introduce a monitoring sytem for the level of operation throughout the AP II schemes.

As that would only be a start to observe and document the level of operation, meassures and a system to improve operation on the basis of monitoring observations still has to be worked out.

Additional issues, such as O&M manuals, O&M budgets, and the institutional responsibility and day to day responsibility, are likewise considered crucial to the improvement of operation and maintenance of the schemes.

The issue of "ownership / responsibility" of the schemes, is still unresolved. GP seems reluctant to take over, after the new Sarpanches were elected, while NAPO has been insisting that handing over of responsibility for distribution systems from PRED to GP could only be done if schemes are fully completed, based on a formal procedure, including provisions for O&M manual from PRED, trained operators and provisions of budget facility, either granted from GOAP or within a system of GP cost recovery.

While the balance is presently beginning to shift from a concentration of AP II to the preparation of the start Year called "phase out AP II phase in AP III", it should be discussed and decided to what level NAP Office will still be involved in the monitoring and advisory services to the operation of AP II schemes, after their physical completion.

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The latter part of this report describes the present efforts made in conceptualizing and planning of the phasing in of a ground water approach in the AP III Nalgonda project.

The concentrations in these efforts clearly reflect the intentions to depart from existing facilities in the village, to base the design, construction and O&M on the participation of the users, and to introduce proper planning and documentation.

NAPO JANUARY 1997.

EXECUTIVE SUMMARY

C NAP OFFICE

1. Missions, Meetings and Visits

2. Nap Office and Staffing

Social Project Officer Mr. Govardhan Das replaced SPO Shashi Johnson, while Technical Programme Coordinator A. Zutshi joined the RNE as Senior Programme Officer. NAPO is still searching for a replacement.

3

The synchronization of programme activities with the administrative procedures proved to create some constraints for NAPO, where a number of activities could not be taken up prior to approval of the workplan submitted for the period July '96 -March '97.

The recruitment of a new TPO also proved difficult in view of the limited period that the present administrative approval can cover.

Financial coverage of NGOs extension, has been found through re-appropriation in the NAPO budget.

D NAPO MONITORING AND SUPPORT SERVICES

1. Rural Water Supply

1.1 Inventory Information AP II

Completed Inventory Formats have now been received from PRED. Although NAPO received upgraded inventory formats for all Districts but Prakasam, the quality of the data does not match the system as it was agreed upon.

PRED local field staff has not been able to provide village wise information for reservoirs and distribution systems.

The lack of this information makes it impossible to make specific analyses at village level.

PRED local field staff have filed in identical data for design - execution - and the level of functioning of the schemes.

This runs counter to the observations in the field and is inconsistent with PRED's own reporting, as in reimbursement claims, deletions and the level of pumping data.

There are also plenty of gaps in the information provided.

After the initiatives from NAPO and assistance to PRED to set up a documentation format, it is now considered up to the PRED to have the data filled in properly.

1.2 As Laid/ Built Information

By October 1996 NAPO received as built drawing and maps. This time an elaborate and good effort was made to improve previous versions.

2. COMPLETION OF AP II PROJECTS

The completion procedure as discussed with RNE, PRED and NAPO consists of the following components :

- Physical completion of works and the completion dates thereof
- PRED internal completion reports
- Possible completion assessment by external local consultant
- PRED Technical Audit, reviewing the level of functioning
- Completion report per scheme per District in accordance with the RNE format to be submitted to Rajiv Gandhi Mission
- Bilateral Mission
- Administrative and Financial completion

2.1 Overall Completion Status AP-II (till end of Sept 1996)

The AP II projects have reached a level of 97.6% financial progress, with an expenditure of Rs.3992.61 lakhs out of a final revised estimate of Rs.4089 lakhs.

Out of a total of 283 villages, 254 (90%) have been covered with water supply.

Out of a total of 1016 physical works, 960 (94.5%) have been completed.

The Lift Irrigation project has reached 84.4% financial expenditure, with 90 % of the irrigation potential created and 86% of the major works completed. Presently 3000 acres of the infrastructure created for 9000 acres are actually being irrigated.

2.2 Completion Status Per District

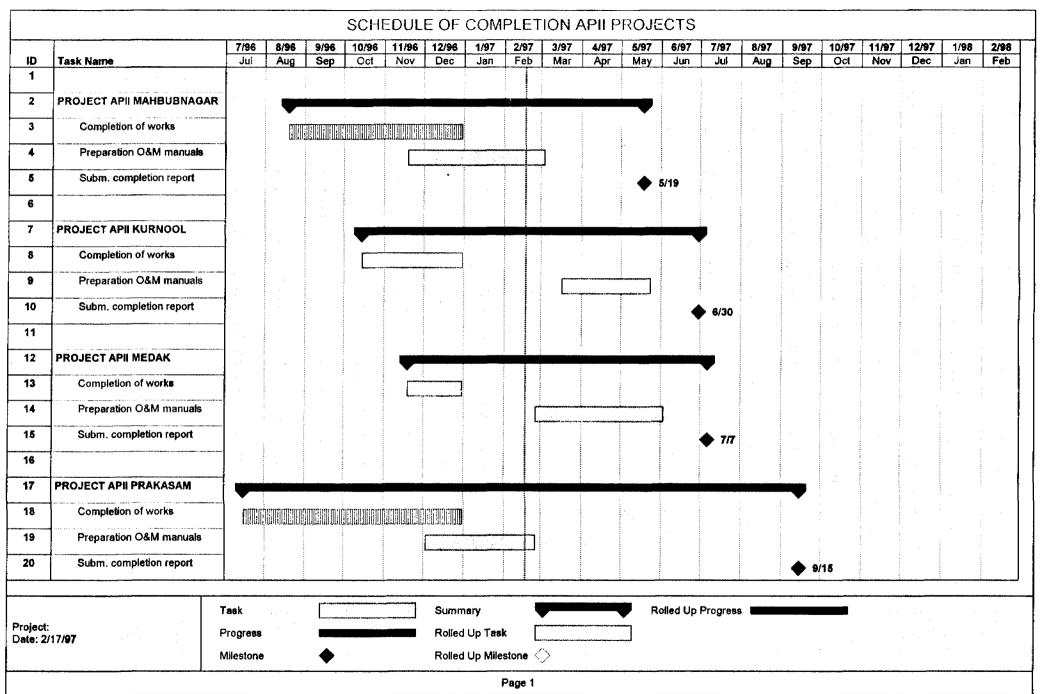
This section in the report provides the specifics regarding the completion per District; The summarized completion levels are as follows:

Mahbubnagar	:	physical completion 90 % financial completion 94 %
Kurnool	:	physical completion 95 % financial completion 99.5 %
Medak	:	physical completion 98 % financial completion 101 %
Prakasam	:	physical completion93 %financial completion95 %

2.3 Completion Planning Per District

After detailed discussions between PRED NAPO and the Support Mission an elaborate planning for the completion of AP II was prepared for each District.

The planning has been presented in MS Project software, while the specifics can be found in section 2.3 in the report.



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1	GENERAL ACTIVITIES	257d	11/19/96	11/12/97	-															
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4	Compl, reports-item	19w	11/19/96	3/31/97							-									
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7	Operation & Maintenance	125d	11/19/96	5/12/97			-	_									<i></i>			
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10	Comments NAPO	2w	1/28/97	2/10/97														-		:
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12	Training O&M staff	55d	1/28/97	4/14/97			, I													
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14	Design training plan	2w	2/ 4/97	2/17/97									-							
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16	O&M Budget	51d	3/3/97	5/12/97				l												
17	Budget Preparation	2w	3/3/97	3/14/97							•									
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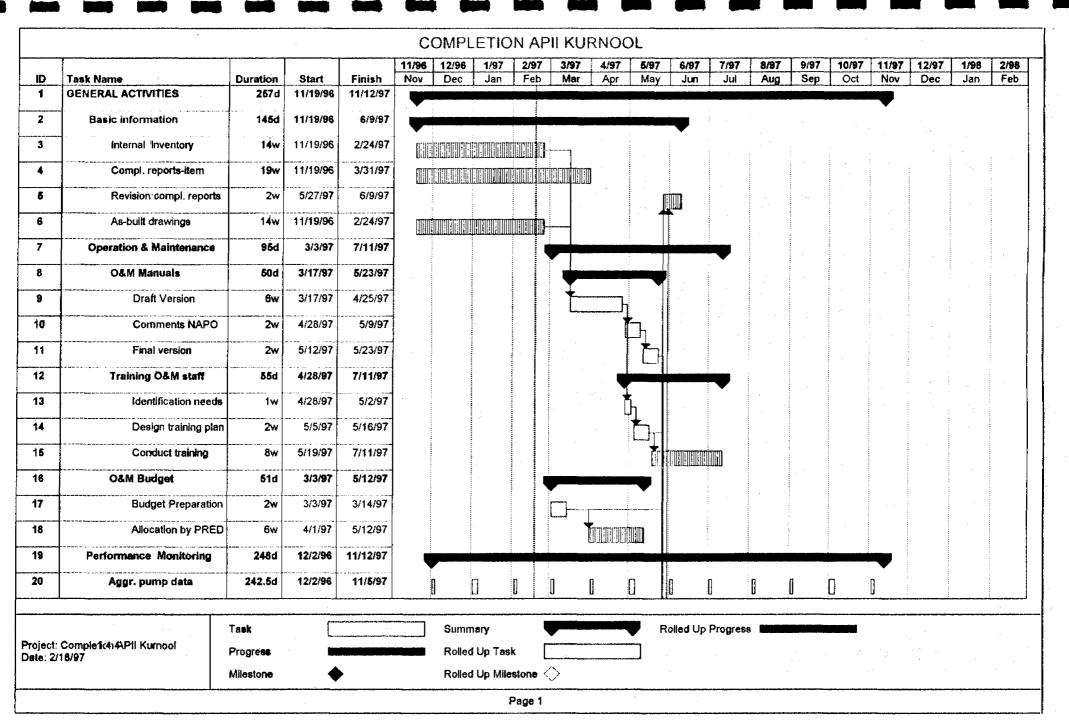
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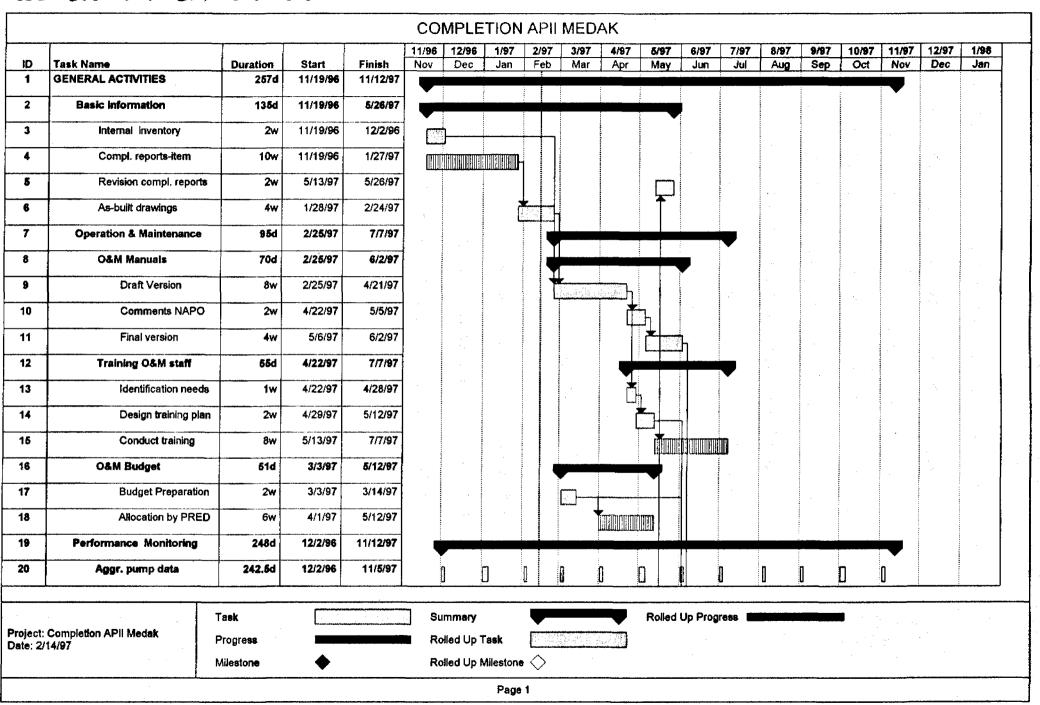
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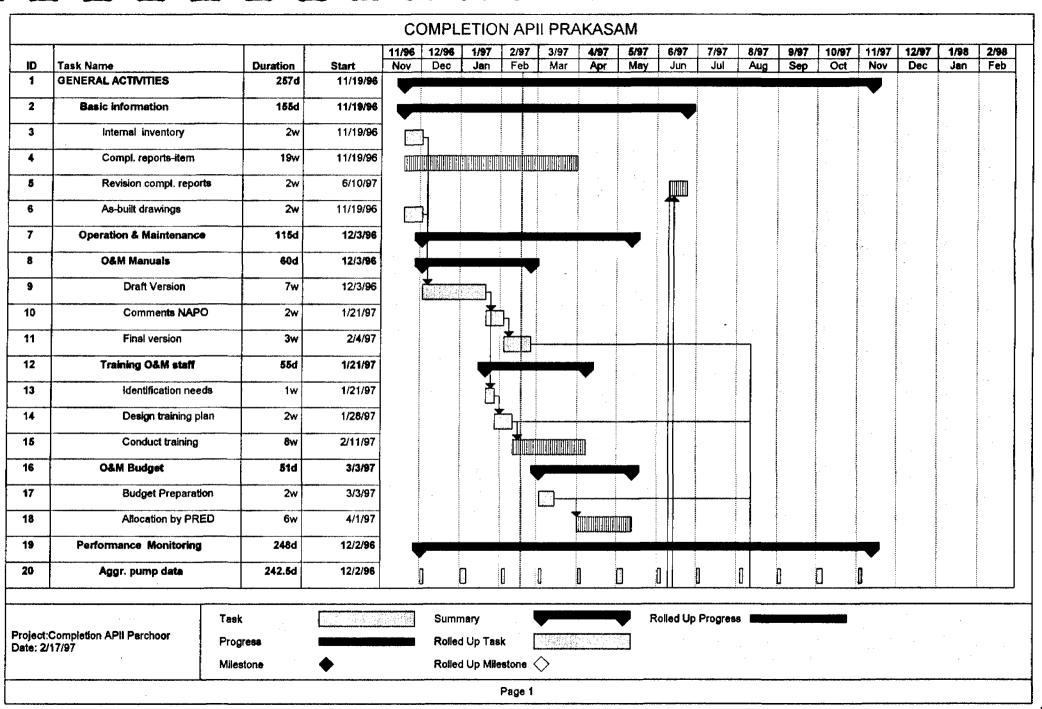
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61	Technical audit	2w	4/1/97	4/14/97			A			ĽЪ									
62	Rectifications	4w	4/15/97	5/12/97						Ť					2				
63	CPWSS BORANCHA	125d	11/19/96	5/12/97			-												
64	Outstanding works	30d	11/19/96	12/30/96		_													
65	Staff quarters Borancha	4w	11/19/96	12/16/96	-		-												
66	GLBR at Tumnurgutta	4w	11/19/96	12/16/96			**										· · ·		
67	Booster NPally	6w	11/19/96	12/30/96	بانتنابه از مراجع	uniu Registe													
68	Scheme stabilisation	19w	11/19/96	3/31/97	יייייי י תחווו					L						•			
69	Technical audit	2w	4/1/97	4/14/97						.									·
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71	CPWSS KARASGUTHY	125d	11/19/96	5/12/97															
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78	Scheme stabilisation	19w	11/19/96	3/31/97	یستا ۱۳۳۳]			uncrastan										
79	Technical audit	2w	4/1/97	4/14/97						D									
80	Rectifications	4w	4/15/97	5/12/97							mt								
81	PROJECT COMPLETION	165d	11/19/96	7/7/97															
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83	Final completion report	4w	6/3/97	6/30/97					htti atti shana tu		•		1						
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46	Analysis by HQ/NAPO	244d	12/6/96		0	0					đ	0	d	۵	۵				
59	CPWSS ABPALEM	125d	11/19/96	-															
60	Outstanding works	30d	11/19/96	-											4 A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.				
61	Stone filling around intake	6w	11/19/96																
62	Extn RW GM Bpalli	5w	11/19/96																
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66	Extn VDS ABPalem II	6w	11/19/ 96	مناشع جرور ا					÷										
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76	Extn VDS MVPalem &4	6w	11/19/96			1			<u> </u>										
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78	Technical audit	2w	1/28/97			[
79	Rectifications	4w	2/11/97																
80	CPWSS CHERUKURU	25d	1/28/97												, î				
81	Technical audit	2w	1/28/97			ן													
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90	VDS Budawada	6w	11/19/96		AP S 전신										-				
91	RW GM to Pavuluru	6w	11/19/96																
92	Booster stn RNPalem	6w	11/19/96																
93	VDS Kothapalem	6w	11/19/96																
94	VDS ZVPalem	6w	11/19/96																
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98	Rectifications		5/13/97																
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In a meeting between PRED and NAPO in September, the Engineer-in-Chief instructed the AP II staff to submit bi-weekly reports on the progress per scheme, using the NAPO listing of works per scheme.

(see the NAPO workplan August 96 - March 97)

3. OPERATION AND MAINTENANCE

While the need for O&M manuals has certainly not decreased, and PRED reports to be working on these, the present report concentrates on the monitoring of the production and delivery of water, as the systematic recordings thereof will imply where the shortfalls maybe found and where improvements towards better operation can be made.

Section 3.1 provides detailed information and analyses on the production of Raw Water, Clear Water and Clear Water delivered to the villages.

The data are assembled from PRED and the NGOs, while a description of the analyses can be found in a separate note

(Please refer annexure 3)

The water monitoring exercise at this stage is a first effort to assemble and interpret information on operation of schemes systematically.

Though much more elaborate analyses could be made on the raw data, the present level concentrates on the overall water production.

Information has been put in tables as well as represented in graphics and will hopefully raise interesting questions on the variations occurring, which cannot be explained in terms of seasonal shortages.

For example, one would expect to have a reduced intake volume during the dry season, (to be covered from summer storage tanks), while the pumping is expected to increase again after the monsoon.

Mahbubnagar. Kurnool and Karasguthy scheme and Borancha scheme in Medak and MV Palem and Cherukuru schemes in Prakasam all show the volume of water picking up after the dry season, in June and July, while the production levels drop in August and rise in September, (in spite of a very good monsoon).

These variations may all have different causes, which could only be explained by the Engineers in the respective districts.

Compiling and analysing the water production over a longer period will allow, not only insights into the volumes of water delivered, and comparison to the design level, it will also allow an understanding of the seasonal changes, the effectiveness of the summer storage tanks and the reliability of the water supply systems.

NAPO has requested the PRED to review and amend the monitoring system for their internal purposes and to introduce such system throughout the AP II projects. PRED has indicated their interest to do so and consider introduction in non-NAP projects as well.

3.2 Summary of Water Monitoring

Scheme				ter at	Remarks
	LPCD	% Capacity	LPCD	% Capacity	
Mahabubnagar Chinnamaroor	30	35.8 %	NA	NA	_
Kurnool Chinnakothili ki Manchala Hanawal	50 32 14	60 % 69 % 17 %	32.6 20 NA	40 % 43 % NA	-
Medak Ibrahimpur Karasgutty Borancha	48 38 42	49 % 54 % 65 %	NA NA 9.4	NA NA 15% In MARI villages	C/W > R/W
Prakasam AB Palem MV Palem Cherukuru	11 21 22	29 % 41 % 43 %	NA 48.5 NA	NA 41 % in ASSIST villages	C/W > R/W full filling of reservoir questionable C/W > R/W

Section 3.2. provides the overall estimates of water production per scheme as follows :

A rough and average assessment indicates utilization of the capacity of the Clear water production as 50 % of the capacity, while the delivery of clear water at village level is estimated at 20 to 25 % of the capacity.

As such there is no reason why villages should be receiving less than the design parameter of 50 lpcd, while at this point in time the population is far from having reached the ultimate level.

4. SANITATION

Progress reports regarding the sanitation project "clean village" indicate progress by one latrine during the reporting period, while the expenditure recording amounts to .37 lakhs (ongoing works?).

This pilot project started early 1993, with a target of 3724 latrines in 18 villages (Prakasam - Guntur), to be completed in 12 months. Later the target was reduced by more than half, to 1581 latrines in 15 villages.

After four years of snail pace activity, the project now stands at some 80 % of the reduced target.

By the end of September 1996, 1299 latrines out of a revised target of 1581 were completed, amounting to 82 % completion.

On the advanced funds released to the level of Rs. 84.397 lakhs, cumulative expenditure stands at Rs. 32.51 lakhs (38.5 %), while PRED must be holding a balance of Rs. 51.887 lakhs for this pilot project.

Efforts were made to re-conceptualize the approach to sanitation in the AP II projects during 1996, but after good progress on an alternative approach in the beginning the efforts fizzled out. In view of the level of completion of the AP II RWS projects to date, it may not be wise to revitalize the sanitation issue any more, (with the possible exception of some hygiene promotion drives), as introduction of yet another alternative project would not fit the time frame for completion of AP II.

As described in the previous report, NAPO would like to invite PRED and RNE to review approaches to sanitation.

5. COMMUNITY PARTICIPATION

5.1 NGOs and Community Participation

5.2 Workshops

Two strategic workshops were organised by NAPO for the NGOs. One on **Review and monitoring** and the second on **Communication methods**. The workshops were a follow up of the thematic workshops planned earlier and the need to effectuate the NGO inputs.

A participatory methodology was adopted for these workshops.

The outputs aimed at qualitative assessment of the implementation strategies.

The workshops were well received by the NGOs and the lessons learnt are expected to be applied in the field activities.

5.3 Field Visits

Schedules for field visits basically ensured that each NGO would be visited for 5 days on an average in a month focusing on specific issues, either identified during the earlier visits or based on NGO specific requests.

Field visits to NGOs also included consultations with the GP representatives, village leaders and the field engineers of the PRED.

The field observations made by NAPO were shared with the NGO staff and worked out in specific action plans prepared.

5.4 Monitoring/ Impact Indicators

The need to build accountability was operationalized by identifying indicators. NGO specific indicators were finalised at the NGO level. The indicators were broken down into actions, tasks, and enlisting the person responsible. These indicators were translated into the vernacular and used in the training of the water committees.

5.5 Formats for Reporting

Reporting formats were introduced to bring about uniformity in reporting. At the NGO level due to different levels of reporting often information gets missed out. To keep a track of targets and achievements a quarterly progress monitoring framework was introduced.

5.6 Gender

Gender equity issues are addressed during visits and interactions. Efforts are on to begin with representation of women in the water committees and to shouldering responsibility in the committees. Much effort is needed to achieve results.

5.7 Strategies for Withdrawal and Sustainability

Sustainability is not built into the project document. The need to address sustainability and ability of groups to carry on by themselves after withdrawal of the NGO intervention, has been emphasised at all levels. Efforts are on to ensure that sustainability becomes part of the project implementing strategy. Translating sustainability into terms that are acceptable to the community and manageable by them has been the focus of addressing this issue.

5.8 Extension and Expansion of NGOs

In relation to the need to extend the technical programme for AP II, due to delays in completion, the need to extend community participation has been elaborately discussed with PRED, RNE and NAPO. The need for the community to monitor the actual delivery of water to step up the need to deliver sufficient quantities of water made it imperative to involve NGOs to a fuller level of coverage of the villages in the AP II projects. This has in principle been agreed upon by the PRED and the RNE.

Due to administrative changes within the Netherlands Development Assistance Programme, constraints have developed in the possibility to process such expansion at this point in time.

Hence the proposed expansions will be postponed till it can be incorporated into the PRED proposal for the phasing out of AP II and the phasing in of AP III.

Meanwhile the extension of the NGOs programme is to be covered from the existing balance on the budget or the reappropriation of the NAP budget till March 1997.

5.9 Community Contributions

Community contributions are encouraged to attend to the minor repairs around the water points. The committee/group around each water point takes responsibility for the upkeep of the particular water point. Collections also help in responsibility sharing and ownership. Assessments are made either by the lineman or by the JE.

The NGOs have also mobilised the users to contribute in terms of materials and finances, in cases where PRED has indicated a lack of funds to attend to repairs. Efforts are on at the NGO level to systematise fund collection.

5.10 Up Keep and Maintenance

In all the NGOs, efforts are actively made to ensure that the community takes responsibility for the upkeep and maintenance of the distribution systems. Responsibility sharing is done at the village level by the different groups (e.g. women's group, youth group). The NGOs have ensured that either of the groups attend to any maintenance problem without delay.

The lineman and the works inspector hold a lot of power in the village and to ensure support and cooperation from them they are made active members of the water committees.

5.11 Health and Hygiene Promotion

Health and hygiene issues are addressed regularly in all the meetings/training and visits. Education and awareness levels being rather low, efforts are on to make it a habit formation.

School health, club formation, and using women and children as health promoters, have been some of the steps adopted. Linkages are built up with the Government PHCs to utilise the services of the multipurpose health workers and the PHC Doctors. The villagers are encouraged to participate in the different Government programmes.

5.12 Interaction with Gram Panchayat and Other Govt. Institutions

In all the villages activities are undertaken to link up the VACs and the GPs. The Sarpanch being a political leader often has an effect on the kind of cooperation extended to the NGOs.

Since the elections, GPs are in a transition period of the old Sarpanches handing over charge and the new Sarpanches taking on charge. The confusion as to who has to take responsibility for the schemes for maintenance is still often debated, while the negotiations regarding handing over of the schemes to Gram Panchayat, between the GPs and the PRED continues unabated.

While the responsibility for O&M in AP II, officially rests with the PRED, as per their agreement with the Netherlands Government, PRED expressed their interest to hand over the responsibility for O&M to the villages.

Earlier the problem was that NAPO and support missions stated that such could only be done on the basis of fully completed and operational schemes, including manual and trained operators, and accompanied by a clear procedure for handing over.

On the basis thereof, trials were to be made with handing over of the scheme.

While still awaiting fulfilment of these requirements, earlier willingness of GPs to take over the responsibility has changed to unwillingness, with the newly elected sarpanches apprehension in taking over assets and liabilities, created by their predecessors.

5.13 Impact of NGO Involvement

The impact of the NGO involvement is evident from the fact that the communities have changed their practises and behaviour.

Some of the evidences are increased consumption of piped water contrary to the earlier belief, covering the stored water and using ladles to draw water.

Revamping of the committees, replacing inactive members, recording meetings and follow up actions, increased responsibility as individuals and as committees are some of the evidences. The formation of APEX bodies for collective action has been a mile stone. Efforts to give a legal status to the APEX body has been the present thrust of the NGOs.

5.14 Progress Per NGO

5.14.1 ASSIST

ASSIST has been working in 11 villages predominantly with the latrine component. ASSIST is into its third year with the RNE. In this half year period the changed approach of ASSIST to mobilise the community support not only in the latrine construction but also in the RWS has paid rich dividends. Increased awareness programmes to enlist community support and thematic training for the staff and the masons have helped increase the momentum of construction. 720 families were mobilised and 526 of them have been provided with a completed latrine.

The VDS members started taking responsibility for the RWS and have been closely monitoring the supply. On a number of occasions the villagers have collected contributions to attend to repairs of their distribution system. However this is yet to take a more pronounced form. ASSIST realises that more work needs to be done in this area and the relationship between the sanitation programme and the RWS established.

ASSIST continues with its village level work related to health and hygiene promotion with special attention given to the pre and post natal care.

5.14.2 SNIRD

SNIRD has been working in 26 villages under the AP I. The NGO is into its third year of mobilising communities under the RWS scheme. SNIRD realised that here is a risk of stagnation in approach if activities become monotonous. A decision was taken to change the approach and make the committees more effective and functional. The first step in this direction was to form the APEX body with representations from all the VACs. The approach adopted was a democratic one and a decision was taken to call the committee as the Chandavaram Reservoir Committee.

SNIRD is now focusing on training the APEX body to take on more additional responsibility. This may be a positive step in the direction of achieving sustainability and community management.

5.14.3 MARI

MARI has been working in 10 villages under the AP II programme. MARI has a one year agreement with RNE. MARI formed the water committees as a first step in all the villages. These committees are being given the required training to facilitate them to take responsibility of the village assets. As the committees were not found to take full responsibility MARI realised the need to revamp these committees. Further the need for an APEX body to take responsibility was felt. The idea was floated and though the process has begun, MARI cannot claim to have a full fledged body as such.

MARI has experienced liquidity problems and this has affected the timely actions and thereby the quality of work. MARI proposes to take a critical look on its functioning and come out with possible lessons for the future.

5.14.4 HERSELF

HERSELF's contract with RNE expired December 1995. January to March 1996 Herself was extended budget neutral, after which possibilities for extension were submitted by NAPO to RNE.

Pending the approval of extension/ expansion, HERSELF has been maintaining skeleton staff and has been trying to stay in touch with the water committees (VACs). HERSELF also continued to cooperate in filling in the water monitoring formats.

Meanwhile the expected extension got delayed with the processing of the NAPO Workplan proposal at the Directorate General for Development Cooperation in the Netherlands, the approval of which is still awaited to date.

B BASIC INFORMATION

Project name

Project Phase

Location

Project Components:

RWS

Sanitation

Lift Irrigation

A.P. Dairy

External Water Quality Monitoring

Health Education/ Hygiene Promotion/ Community Participation

Monitoring/ Support Services/ Advisory Services

Technical Support Mission

Reporting Period

NAP (Netherlands Assisted Project)

NAP - AP II

Medak District Mahbubnagar District Prakasam District Kurnool District

Implementing Institutions:

PRED

PRED: project Clean Village (preparation alternate project)

NGO (ASSIST), Prakasam

Department for Minor Lift Irrigation, combined with RWS in Mahbubnagar.

APDDCFL, Hyderabad

IPM (Institute of Preventive Medicine), Hyderabad.

NGOs with NAPO assistance.

NGOs	District
ASSIST	Prakasam
HERSELF	Kurnool
SNIRD	Prakasam (AP I)
MARI	Medak

NAPO / ETC

IWACO

April to September 1996 September to December 1996

Netherlands Assisted Projects Office

C NAP OFFICE

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1. Missions, meetings and visits

April 1996	2 3	Meeting E-N-C - NAPO visit Mr. H. Soree, Director ETC India
	5 6-14	Short Mission IWACO (overview AP III)
	6	Mission briefing with RNE in Delhi
	13-14	Mission debriefing with RNE in Bangalore.
	15-14	Mission debriefing with KNE in Dangalore.
May 1996	- 1	Meeting ETC/NAPO and RNE in Delhi
	15	Meeting RNE and ETC in Hyderabad
	16	Meeting RNE and NAPO in Hyderabad
	16	Meeting NAPO and E-N-C.
July	1-31	During the month of July three UK students
	:	conducted research in Prakasam District
	11	Meeting First Secretary RWS & S, RNE with E-N-C and
		Principle Secretary PR & RD in Delhi.
	17	Workshop NGO's.
August	5	Interviews candidates for Technical Programme Coordinator.
-	12	Interview with selected candidate at ETC Delhi Office.
September	17-24	Support Mission IWACO
-	21	Meeting NAPO/Support Mission and E-N-C
	22	Visit to Nalgonda, PRFS villag
	23	Meeting NAPO? Support Mission and E-N-C.
		8
October	2-4	Meeting ETC and NAPO in Delhi
	4	Meeting NAPO RNE in Delhi
	8	Meeting NAPO and E-N-C
الم الم المحمد المحمد الم	19	Meeting NAPO and E-N-C
24.9	28	PRFS study in Nalgonda
November	1	PRFS study in Nalgonda
	8-28	Support Mission 33 IWACO, B. Blankwaardt & T. Kleinendorst.
	16	Meeting NAPO/Support Mission and E-N-C
	18-20	Workshop with PRED Dy EE from all AP II projects on completion and
	-	planning AP II
	22	Debriefing meeting NAPO/Support Mission with E-N-C, PRED and RNE
		in Hyderabad
	22	Meeting NAPO/Support Mission with Principle Secretary PR & RD and
		E-N-C.
	25	Follow up research PRFS villages in Nalgonda.
		L

2. NAP OFFICE AND STAFFING

NAP Office staffing saw some changes during this reporting period.

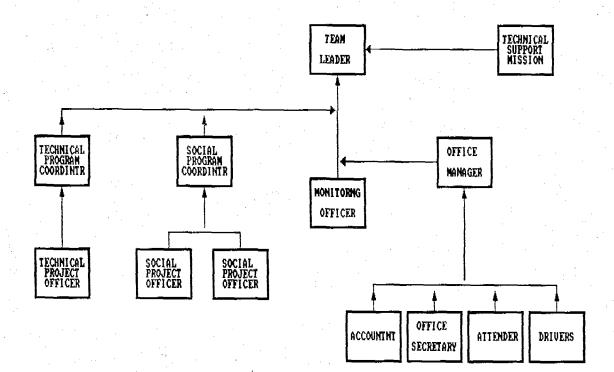
Mr. Govardhan Das joint the office by the first of May as Social Project Officer, After an introduction programme Mr. Das was quick to catch on with the community participation component in the NAP AP II programme.

At the end of June NAP Office bid fair well to Technical Programme Coordinator Avinash Zutshi, who joined the Royal Netherlands Embassy as senior Programme Officer. NAPO enjoyed working with Mr. Zutshi and is grateful for his inputs to our office. We wish him the best of luck in his new position.

NAPO has since been searching for a new Technical Programme Coordinator. Interviews with respondents to advertisements were conducted in August, and resulted in an agreement for one year, (to be adjusted when future prospects are clear), with a candidate from Orissa. The latter was provided some time to arrange his lien from Government and join NAPO by October.

NAPO was recently informed that the candidate reconsidered his earlier interest in view of NAPO/ETC's inability to offer a longer term contract at this point in time.

NAPO is making efforts to find an other candidate and is looking into intermediate solutions (by trying to hire services through a local engineering bureau).



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The present NAPO staff and positions are as follows:

(TL) Team Leader Social Programme Coordinator (SPC) Technical Project Officer (TPO) Social Project Officer (SPO) (SPO) Social Project Officer (MO) Monitoring Officer (OM) Office Manager (ACC) Accountant (OS) Office Secretary/receptionist Office Attender Drivers

(TSM) Technical Support Mission

Mr. Frank Hanrath Ms. A. Sharat Mr. S. Kumar Mr. P. R. Kumar Mr. G. Das Ms. M. Nayani Ms. J. Gay Mr. S. Gupta Ms. T. Vinod Mr. Shankar Mr. Ismail Mr. Ismail Mr. Srinivas Mr. Bakkaiah		· · · · ·
Mr. S. Kumar Mr. P. R. Kumar Mr. G. Das Ms. M. Nayani Ms. J. Gay Mr. S. Gupta Ms. T. Vinod Mr. Shankar Mr. Ismail Mr. Ismail Mr. Srinivas	, .	Mr. Frank Hanrath
Mr. P. R. Kumar Mr. G. Das Ms. M. Nayani Ms. J. Gay Mr. S. Gupta Ms. T. Vinod Mr. Shankar Mr. Ismail Mr. Ismail Mr. Srinivas		Ms. A. Sharat
Mr. G. Das Ms. M. Nayani Ms. J. Gay Mr. S. Gupta Ms. T. Vinod Mr. Shankar Mr. Ismail Mr. Ismail Mr. Srinivas		Mr. S. Kumar
Ms. M. Nayani Ms. J. Gay Mr. S. Gupta Ms. T. Vinod Mr. Shankar Mr. Ismail Mr. Ismail Mr. Srinivas		Mr. P. R. Kumar
Ms. J. Gay Mr. S. Gupta Ms. T. Vinod Mr. Shankar Mr. Ismail Mr. Srinivas		Mr. G. Das
Mr. S. Gupta Ms. T. Vinod Mr. Shankar Mr. Ismail Mr. Srinivas		Ms. M. Nayani
Ms. T. Vinod Mr. Shankar Mr. Ismail Mr. Srinivas		Ms. J. Gay
Mr. Shankar Mr. Ismail Mr. Srinivas		Mr. S. Gupta
Mr. Ismail Mr. Srinivas		Ms. T. Vinod
Mr. Srinivas		Mr. Shankar
		Mr. Srinivas

Mr. J. Spit (IWACO) Mr. B. Blankwaardt (IWACO) As the NAPO / ETC contract with RNE was to expire by July 1996, NAPO / ETC drafted and submitted a proposal for the period August 1996 - March 1997.

The process of creating clarity on the time frame of completion of AP II, as well as on the scope and time frame for AP III and the ongoing reorganization of tasks between DGIS and the RNE, have complicated the processing of the proposal for NAPO's workplan, the approval of which is still awaited to date.

Prior to approval of the workplan and budget, NAPO has been unable to implement a number of activities scheduled in the workplan.

The plans for expansion of the community participation component were postponed, till these can be integrated in the next PRED proposal, covering the phase out of AP II as well as the phase in of AP II.

A number of the preparations for assistance towards AP III, such as hiring additional staff for the social and technical components in NAPO, the set up of a local field office in Nalgonda and preparations for an expert hydro geologist are postponed, pending the approval of the workplan and the Budget thereof.

The utilization of the "immediate relief Fund" / Rehabilitation of existing infrastructure for village water supply, Nalgonda has likewise been pending.

These activities will of course be taken up as soon as the workplan and budget are approved.

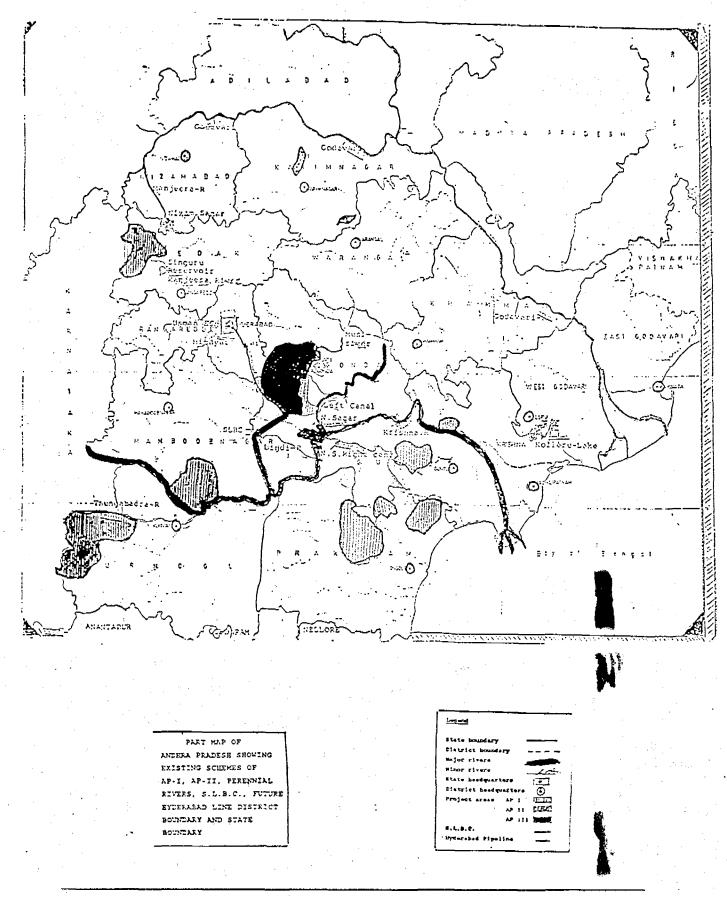
In good coordination with the RNE, NAPO has been able to push through with the Support Missions on schedule and hence has not incurred delays with assistance to PRED on the preparation of PRED's proposal for the phase out AP II/ Phase in AP III.

In consultations between RNE and NAPO it was decided to cover the on going activities for two NGO's through re-appropriations in the NAP Office budget.

D NAPO MONITORING AND SUPPORT SERVICES

1. RURAL WATER SUPPLY

Map 1 : Andhra Pradesh



Netherlands Assisted Projects Office

1.1 **INVENTORY INFORMATION AP II**

PRED submitted inventories in two rounds; first in January, 1996 and second in July, 1996.

During the first round; Inventories of Medak, Prakasam and Mahbubnagar were submitted, NAPO gave it's feedback to PRED and PRED filled in the gaps and upgraded the data.

Status : The information is submitted for the following three projects;

- i. Medak (Second attempt)
- ii. Mahbubnagar (Second attempt)
- iii. Kurnool (first attempt)

No information has been submitted for Prakasam District until the reporting time.

Observations project wise

Medak :

The following two deficiencies are noticed in the information:

1. GLSR/OHSR information is not given village wise.

That makes the information rather general and unfit for specific insights and monitoring. For example the information simply states that a total of 28 GLSRs have been constructed in problem villages of CPWSS Ibrahimpur with capacities varying from 5 cu.m to 40 cu.m. No further details as to what capacity tanks in which village were constructed, is provided.

The inventory format agreed upon, clearly requested this information village wise. It is obviously required to have the information available OHSR/GLSR wise and village wise so that village level calculations of storage capacity and delivered water can be made and monitoring will be possible.

2. For the itemized scheme components the inventory format distinguishes the data in "designedexecuted and the level of functioning" specifics.

The information provided in all three columns appears to be the same.

This implies that there is no deviation or discrepancy between design and executed and that all components are functioning to 100% of the level designed. This runs contrary to the facts as they are observed in the field.

- there are some villages yet to be covered with water supply, (total 254 covered out of 283 as on Sept, 96)
- there are works in progress (testing of pipe lines in Mahbubnagar and Medak)
- there are many modifications and (e.g. Chinnakothiliki, Halvi)
- * NAPO has observed ample deletions in the project (Prakasam, Medak).

Examples from the data provided :

1 : Raw water pumping capacity : CPWSS Ibrahimpur

Design	:	275.28 cu.m/hr
Executed	:	275.28 cu.m/hr
Functioning	:	275.28 cu.m/hr

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2:	Transmission	main :	Borancha	CPW33
S M	o Size	т	ength	Material

3.110	SIZE	Length	wateria
1	350 mm	2420 mts	RCC P3
2	300 mm	2200 mts	RCC P3

Design and executed also same figures.

3: Transmission Main : Karasguthy CPWSS

Size	Length	Material
		AC CI 15 AC CI 15
	300 mm 300 mm	300 mm 700 mts

To present the information on the particulars of design, execution and the level of functioning as if they were all the same implies the information is incorrect and less useful for the purposes the inventory was set up for.

Mahbubnagar :

i. There are some gaps in the village wise information such as:

- * village code
- * village area

ii. There are gaps regarding details such as

- project planning date *
- construction dates and
- * commissioning date

Example : Transmission main length

Design	: 103 km
Executed	: 103 km
Functioning	: 103 km

AS it is known that at the time of submitting the inventories that not all villages were covered, it is impossible to assume that designed, executed and functioning data can be the same.

iv. Following details are missing

- r/w pump discharge
- C/w pump discharge
- * SST size
- 本 Stages of pumping

v. Village wise information is not given for the following items

- * GLSRs
- * OHSRs
- * Distribution system material, diameter and length
- * PSP

vi. Maintenance staff details are also not given.

Kurnool :

Halvi CPWSS

i. design, executed and functioning details are same.

Example : Raw water main

Designed Length	:	4800 mts	dia : 300 mm
Executed Length	:	4800 mts	dia : 300 mm
Functioning Length	• :	4800 mts	dia : 300 mm

- ii. following details are not given
- * r/w pump capacity
- c/w pump capacity
- * transmission line

iii. village wise details are not given for

- * GLSRs/ OHSRs
- * Distribution lines material, diameter and length
- * PSPs
- * Maintenance cost and staff details are also not given may be because scheme is not yet commissioned.

Hanawal CPWSS

i. In the "Hanawal sector" there are two IPWSS Rowdur and Upperhal and there are no data at all regarding these two IPWSS. It is required to furnish the status and details of these items that have been proposed and taken up in these two IPWSS.

ii. Design, executed and functioning details are same.

Example : Filtration rate

Designed	:	100 lts/ sq.m / hour
Executed	:	100 lts/ sq.m / hour
Functioning	:	100 lts/ sq.m / hour

iii. Village wise details are not given for

* GLSRs

OHSRs and

* PSPs

iv. maintenance cost and staff details are also not given, may be because scheme is not yet commissioned.

Sathnur CPWSS

i. Design, executed and functioning details are same.

Example 1 : Raw water main

Designed Executed Functioning	Dia : 300 mm Length : 290 mt Class : AC CL 15 Dia : 300 mm Length : 290 mt Class : AC CL 15 Dia : 300 mm Length : 290 mt Class : AC CL 15
Example 2 :	Raw water pump
Designed	HP: 35 Discharge : 247.08 cum/hr

Executed	HP : 35	Discharge : 247.08 cum/hr
Functioning	HP : 35	Discharge : 247.08 cum/hr
Example 3 ·	Clear wa	ter numn

revambre.	~	•	Cieda	water	Pamp	

Designed	HP:15	Discharge : 222.37 cum/hr
Executed	HP:15	Discharge : 222.37 cum/hr
Functioning	HP:15	Discharge : 222.37 cum/hr

ii. Village wise details are not given for

- * GLSRs
- * OHSRs
- * distribution lines and
- * PSPs

In fact Sathnur GLSR details are mixed up with the details of Halvi.

iii Maintenance cost and staff details are also not given may be because scheme is not yet commissioned.

Manchala CPWSS

i. Design, executed and functioning details are same.

Example 1 : Raw water main

Designed	Dia : 200 mm	Length : 270 mt	Class : AC CL 10
Executed	Dia : 200 mm	Length: 270 mt	Class : AC CL 10
Functioning	Dia : 200 mm	Length : 270 mt	Class : AC CL 10

Example 2 : Clear Water Transmission mains

Design details :

S.No	Size	Length	Material
1 2 3 4	100 mm	3558 mts	AC CI 15 AC CI 10 AC CI 15 AC CI 15

According to the inventory executed and functioning figures are also same.

ii. Clear water pump capacity details are not given

iii. Village wise details are not given for

* GLSRs

* OHSRs

* distribution lines and

* PSPs.

iv. Maintenance cost and staff details are also not given even though the scheme is already commissioned.

Chinnakothiliki CPWSS

i. Design, executed and functioning details are same.

Example 1 : R/w motor capacity

Designed	:	900 lpm
Functioning	:	900 lpm
Executed	:	900 lpm

Example 2 : Clear Water Transmission mains

Design details :

S.No	Size	Length	Material
1	80 mm	4380 mts	AC CI 10
2	100 mm	1950 mts	AC Cl 10
3	125 mm	630 mts	AC Cl 15
4	150 mm	5600 mts	AC Cl 15
5	125 mm	14000 mts	AC CI 10

According to the inventory executed and functioning figures are also same.

- ii. Village wise details are not given for
- GLSRs
- OHSRs
- * distribution lines and
- * PSPs.
- iii. Maintenance cost and staff details are also not given even though scheme is already commissioned.

Prakasam :

For the Prakasam project, information was not submitted until the reporting time. Hence review of data could not take place during this period.

However, these provisions are considered investments made under the AP II projects, that have to be described in detail and have to be accounted for.

Conclusions : (For all the schemes)

- * Village wise information is needed regarding GLSR/OHSR and distribution system
- * the variations regarding the design, executed and functioning information, should be reflected in the inventories.
- * Where ever there are gaps in the information Example, Halvi CPWSS, Chinnamaroor CPWSS etc should be filled in.

NAPO had elaborately discussed these comments with the field engineers of PRED and it was agreed that NAPO has provided ample assistance in explaining the usefulness and setting up of the system towards documentation.

It is now considered up to the PRED to make use of the system and to submit the worked out details of the inventories per District.

1.2 As laid/built maps AP II

It was agreed that PRED will provide as laid maps in manageable but complete functional form for the purpose of monitoring and reviewing. In NAPO QPR January - March, 1995 the description of as laid maps is given as

- 1 Scheme layout : An overview map showing trunk, transmission mains, headworks and service structures etc. along with longitudinal sections of rising main and transmission main and hydraulic data of water intake structures.
- 2 Service zone : As laid outline map for each hydraulic service zone showing transmission lines, main distribution lines and service structures including production units with key nodal and control valve locations.

3 Distribution maps : Should depict total area covered by distribution system along with zone of influence of each service reservoir in each village and locating all PSP locations, control valves etc.

Further it was discussed that these maps along with tabulated details of pipe systems, its class, length etc. leads to a permanent project record in most practical form which shall be helpful for long term operational and maintenance as wells as monitoring.

Between Dec 95 and February 96 as built maps were submitted and NAPO had given it's comments. (pls. refer NAPO Half Yearly Report Oct 95-Mar, 1996).

By Oct, 1996 PRED has submitted refined as built drawings and this time elaborate & good attempt was made in preparing these drawings, how ever there is scope for further improvement as given below

Kurnool:

- * Village drawings with position of OHSR/GLSR
- * Valves location on Transmission Lines, Village Distribution Systems
- Flow direction
- * L-sections

Mahbubnagar :

- * Total scheme layout
- * Village wise drawings of GLSR/OHSR
- * L- sections

Prakasam :

- * Augmentation details
- Village wise drawings of GLSR/OHSR

Medak :

- Village wise drawings of GLSR/OHSR
- * L- sections

Summary and Conclusions :

The data on inventory of the designed, executed and level of functioning of the components of the AP II projects certainly took a long time coming.

Lengthy deliberations with management and District/field-staff taking most of 1995, finally resulted in agreed formats, which were disseminated to the Districts.

By the end of 1996, NAPO received data on most of the Districts.

The quality of the data leaves much to be desired, making them insufficient to be used for the type of internal and external monitoring and the expected utility in Operations and Maintenance.

With PRED's District/ field staff little interested or unable to appreciate the need for documentation of design, execution and level of functioning and the need to build up a data base with retrievable information, that will be used for accountability as well as operation and maintenance and internal and external monitoring of the projects and their delivery of produced drinking water, it may be difficult to expect serious efforts towards improvement in the performance of the schemes.

It seems doubtful if the expected data base and the needed activities on monitoring of the output of the schemes will become available within the PRED before the completion of the projects, unless the management makes a dramatic effort to force this upon the districts and makes it a routine monthly exercise.

All of the above seems to indicate an engineering culture or methodology based on rough estimates and improvised execution, without much attention for documentation or systematic recording of specifics for the stages of design execution and operation.

It must be added though, that the projects taken up under NAP, actually constitute the first efforts to make improvements to this improvised methodology and should to some extend be expected to be painstaking.

The problems described above are clearly related to the rationale to place much more emphasis on planning and documentation and internal monitoring in the next project phase for **AP III**.

2. COMPLETION AP II PROJECTS

The completion procedure which has been discussed with PRED and RNE consists of the following elements:

• physical completion and Completion dates;

During a workshop with PRED field staff from all AP II districts, NAPO and the Support Mission AP 33, the completion levels of all schemes were inventoried, while the works yet to be completed were reviewed in terms of volume and time needed to complete these.

These activities and were then listed in MS project and agreed upon with the PRED management. (for details pls refer to sections below)

• PRED internal completion reports ;

PRED's internal procedures includes itemized completion reports, per works. Wherever the information has been made available to NAPO such information is listed in the sections below, as number of completion reports on works per scheme.

Target dates for total completion per scheme have been included in the sections below and are presented in the MS Project presentation of the time frames.

• Possible completion assessment by local consultant;

When a scheme is internally declared completed RNE/NAPO have offered the possibility to PRED Management to have an assessment made by a local consultant.

PRED is of the opinion that such may not be necessary, but the offer is kept open.

PRED Technical Audit / functioning of the schemes;

While the term completion within PRED jargon implies physical completion only, elaborate discussions have taken place to have the level of functioning of the schemes included in the completion exercise.

NAPO and the support Mission were informed that the PRED will address the issue of the level of functioning under the title "Technical Audit".

Preceding the technical audit measures to facilitate and improve the level of functioning have been planned, such as finalizing and application of O&M manuals and budgets and training for the operators, as well as introduction of monitoring of the level of operation with the NAPO developed model as a guideline.

The introduction of monitoring is intended to assess and improve the level of operation.

• Completion report per scheme per District

PRED was provided a copy of a completion format by RNE/NAPO and has been invited to fine tune the format for its application in the AP II projects.

For all schemes, District-wise such completion reports are to be submitted to the Rajiv Gandhi Water commission, who will forward copies to RNE.

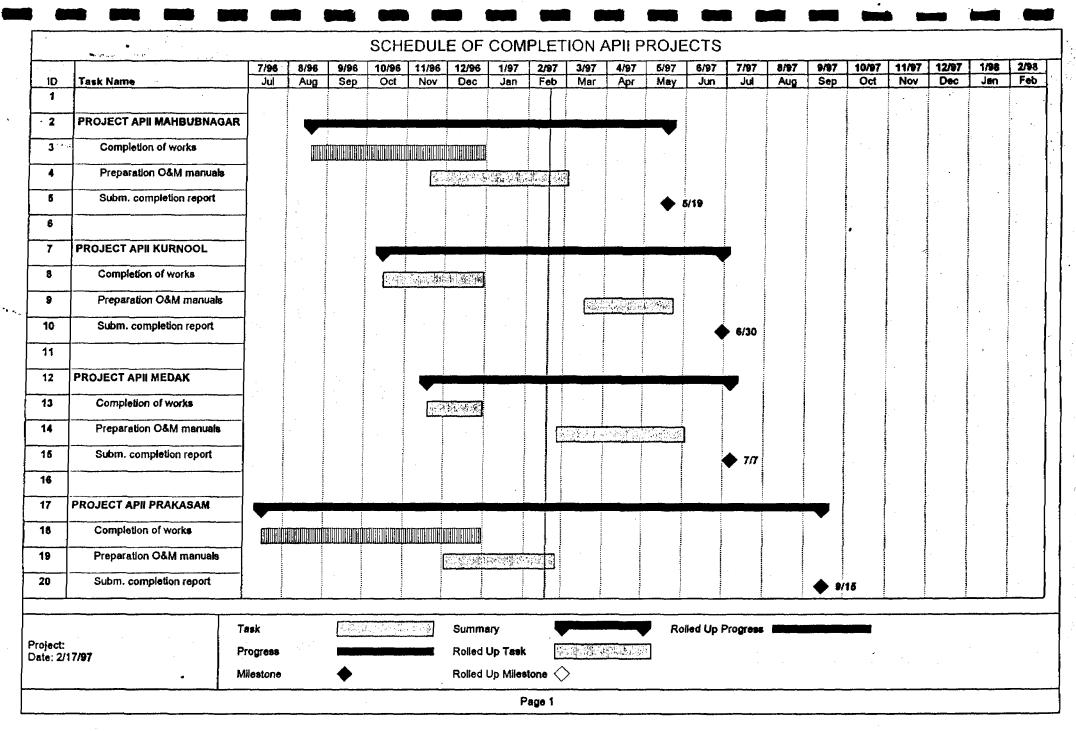
• Bilateral Mission ;

RNE has informed PRED and NAPO that after receipt of these completion reports a review / audit will be conducted by a Bilateral Mission.

• When all required information is available and assessed, financial completion and administrative completion can be conducted.

On financial expenditures, the Engineer-in-Chief PRED informed PRED AP II staff, NAP Office and the Support Mission, that as of 31 December no further expenditures shall be booked on the NAP II projects.

Works not finished by that time will of course be completed, but attributed to PRED' regular budgets.



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2.1 OVERALL COMPLETION STATUS AP-II (ending September 1996)

1. Basic data on AP II

2. AP II Schemes at a glance

The project AP II has achieved 97.6% financial progress i.e. an expenditure of Rs.3992.61 lakhs is incurred out of a Final Revised Estimate of Rs.4089 lakhs.

254 (90%) villages are covered with water supply out of total 283 villages in project area.

960 (94.5%) works out of total 1016 physical works are completed in the entire AP II project.

All the 12 CPWSS of AP II are in operation, during this period 2 IPWSS schemes of Kurnool (Halvi & Sathnur) are made operational.

Prakasam district has achieved 95% expenditure with 96% villages covered and 93% of the works are completed. All the balance works are pertaining to mop up activities.

Kurnool district has achieved 99.6% financial progress with 73% of villages covered (least percentage of all districts) with 95% of project works being completed.

Medak district has achieved 101% of financial expenditure with 95% of villages covered and 98% physical works completed.

Mahbubnagar district has achieved 94% financial progress with 89% of villages covered and 90% physical works being completed.

Lift Irrigation scheme has achieved 84.4% financial expenditure with 90% of irrigation potential created (while presently 3000 out of 10.000 acres are being irrigated) and 86% of the major works completed.

BASIC DATA ON AP II SCHEMES

	Target	Villages	presently		Cost in	lakhs		1	
Project/District	Villages	with wat	er supply	Original	Revised	Re-revised	Final rvsd	Population	Source
		No.	%	Estimate	Estimate	Estimate	Estimate		
PRAKASAM									
CPWSS to AB Palem	20					r	[N S Canal
CPWSS to MV Palem	9								N S Canal
CPWSS to Cherukuru	4				· .			ĺ	Komenur Canal
34 Individual Schemes	* (37+3) 40								N S Canal/K Canal
Total Prakasam	73	70	95. 89	735.60	900.00	990.00	1061.20	246000	
KURNOOL									
CPWSS Halvi	26		-						Tungabhadra River
CPWSS Hanaval(+2 IPWSS)	8								Tunga Bhadra Low Level Canal
CPWSS Sathnur	16		· .						Tungabh adr a River
CPWSS Mancherla	7								Tungabhadra River
CPWSS Chinnakothiliki	7								Tungabhadra River
Total Kurnool	64	47	73.44	741.40	950.00	1040.00	1109.80	173363	
MEDAK									
CPWSS Ibrahimpur	46								Manjeera River
CPWSS Borancha	** (32+3) 35			1997 (A. 1997)					Manjeera River
CPWSS Karasgutti	29	· .							Manjeera River
								(114774+62040)	· · · ·
Total Medak	110	105	95.45	640	840.00	1088	? 1088	176814	
MAHBUBNAGAR									
CPWSS Chinnamaroor	36	32		432.60	698.00	780.00	830		Krishna River/Sri Sailam R/v
Lift Irrigation Scheme	10,000 acres			340.00	850.00	1150.00	1192.32		Krishna River/Sri Sailam R/v
Total Mahbubnagar	36	32 (88.89	772.60	1548.00	1930,00	2022.32	106435	[
	+10,000 acrs	-							
Grand Total: 12 CPWSS	283	254	89.75	2889.60	4238.00	5048.00	5281.32	702612	
+ 36 PWS	+ 10,000	-	-					+ 10,000	
·	acres		ł				1.83 tim es	acres irrigation	
				1949 - C. 1949 -			the original	facilities	
							estimate		

Note:

Final Revised Estimate Costs as indicated by PRED in June 1995 agreed by PRED, informed by RNE to PRED

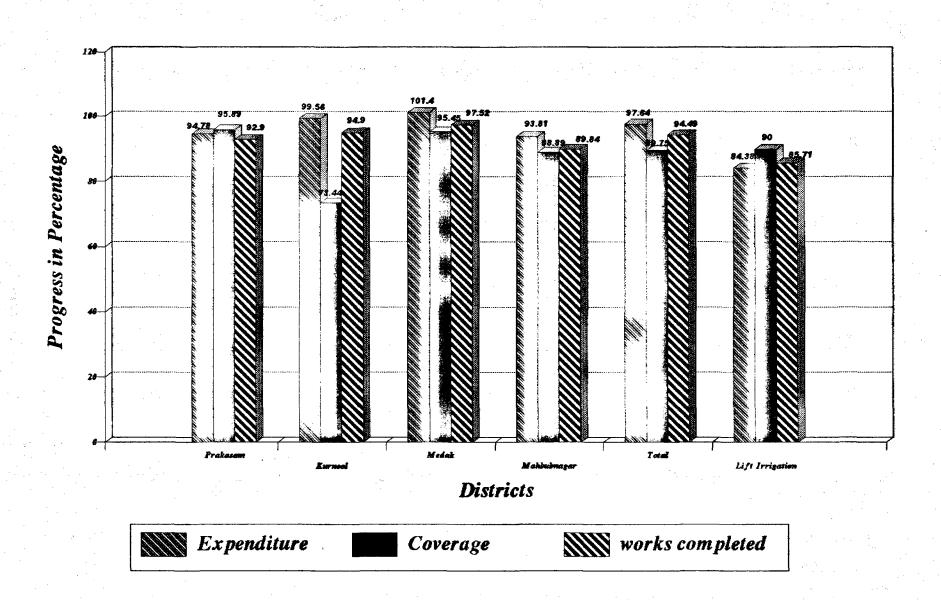
? Final Revised Estimate cost for Medak is not conveyed

Information is as per the re-imbursement claims of March 96 and latest progress reports

* 3 Villages are added as per FRE in Parchur

** 3 Additional Enroute Villages are added in Medak

AP II SCHEMES AT A GLANCE Financial & Physical Progress (Sept 96)

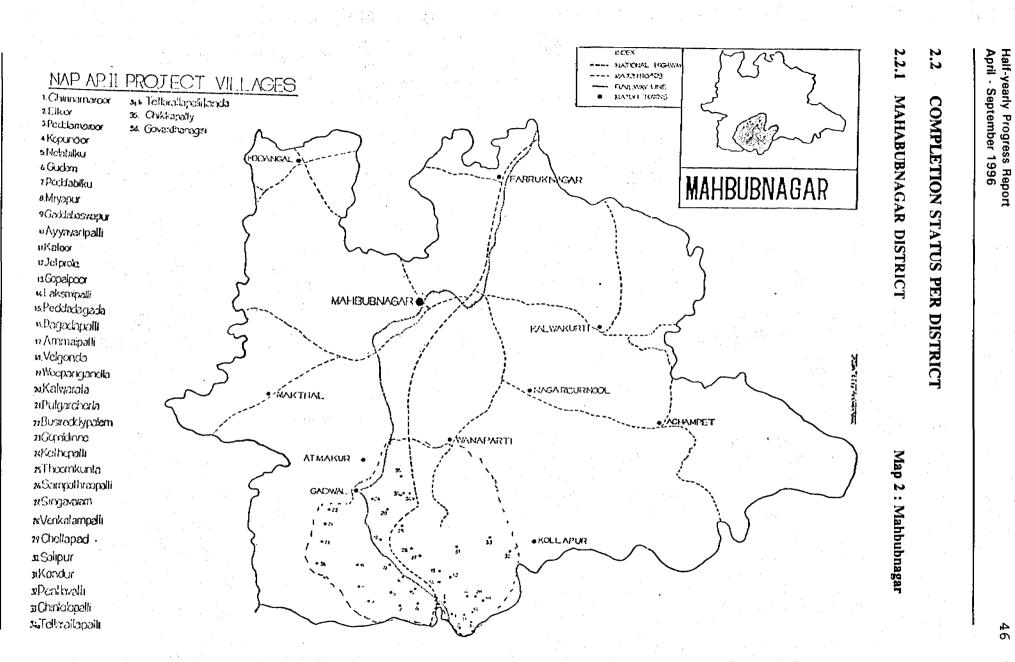


AP II Financial & Physical Progress and Works covered

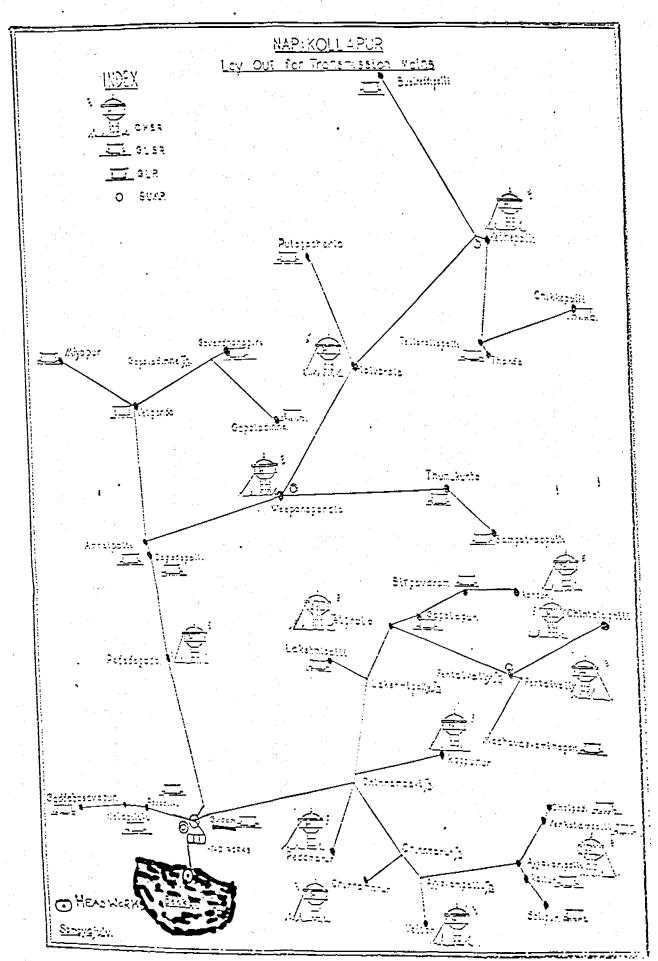
(Amount in Rs. lakhs)

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District	FRE	Expendtr	Expendtr	Balance	Village	es	Coverage	Balance	Work	S	Completed	Balance
			%	Amount	Total no.	Covered	%	Number	Total	Complete	%	Works
Prakasam (Parchur)	1061.20	1005.77	94 .78%	55.43	73	70	95.89%	3	310	288	92.90%	22
Kurnool (Ye mmiganur)	1109.80	1104.87	99.56%	4.93	64	47	73.44%	17	255	242	94.90%	. 13
Medak	1088.00	1103.28	101.40%	-15.28	110	105	95.45%	5	323	315	97.52%	8
Mahbubnagar (Kollapur)	830.00	778.66	93.81%	51.34	36	32	88.89%	4	128	115	89.84%	13
Total	4089	3992.58	97.64%	96,42	283	254	89.75%	29	1016	960	94.49%	56
Mahbubnagar (LIS-Nagarkurnool)	1192.32	1006.11	84.38%	186.21	10000 acre	9000 acre	90.00%	1000 acre	14	12	85.71%	2



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MAHBUBNAGAR PROJECT

Introduction

Mahbubnagar project consists of 1 CPWSS located at Chinnamaroor with 36 villages under its scope. The number of villages reached are 32 (89%)

As per the latest QPR and completion reports all works seem to be completed but for the pumping main (4 villages) and village distributions in some segments.

Status, the physical works:

Total	:	128
Complete	:	115
Incomplete	:	13
% of completion	· :	90
% of incompletion	:	10
No. of completion		
reports approved	:	71

The pending works are:

I Pumping mains

1.	K. Pally	-	B. Pally
2.	K. Pally	•	T. Pally
3.	T. Pally	-	C. Pally
4.	T. Pally	-	TP thanda

- II Village Distribution System in
- 5. Chinnamaroor
- 6. Veltoor
- 7. Koppunur
- 8. Jetprole
- 9. Kondur
- 10. Peddamaroor
- 11. Velgonda
- 12. Weepanagondla
- 13. K. Pally

The Physical Progress:

Status of Major Components (till end of 9/96)

District	:	Mahbubnagar
----------	---	-------------

Items	Total orks	Complete till 1/96	Complete till 9/96	Progress 2/96 - 9/96	Balance 9/96
Filters	1	1	1	-	0
S.S.Tanks	-		-	-	-
S. Tanks	-	-	-	-	-
R/W Wells	1	1	1	-	0
C/W Sumps	5	3	5	2	0
Pump Houses	5	4	5	1	0
Pumping Units	. 2	2	2	-	0
OHSR	13	13	13	-	0
BR	-	-	-	-	-
GLSR	40	40	40	-	0
Cisterns	-	-	-	-	-
Buildings	10	5	8 + 2*	3	0
R/W tr lines(km)	0.8	*	*	-	*
C/W tr lines(km)	131.9	*	*	-	*
Dist.line village (km)	26.56	*	*	-	*

Note :

Analysis is based QPR end 6/96, 9/96 and fortnightly progress reports.

* Not Available

2 Buildings have been transferred to GP.

The Physical Progress during the reporting period:

- 2 C/W Sumps have been completed
- 1 pump house has been completed
- 3 buildings have been completed
- 2 buildings have been transferred to GP for construction

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As per QPR/PR all the other major works such as filters, pump houses, R/W wells and Sumps are completed.

The Financial Progress:

Estimated cost (FRE)	:	Rs.830.00 lakhs
Expenditure	:	Rs.778.66 lakhs
Balance	:	Rs.51.34 lakhs
% Expenditure	:	94%
% Balance	:	6%

In Mahbubnagar district the financial expenditure is 94%, number of works completed is 90%, and number of villages covered is 89%.

ABSTRACT STATEMENT ON BUDGET & EXPENDITURE OF RWS KOLLAPUR (MAHBUBNAGAR PROJECT)

Total Number of Villages: 36

Amount in Rs.(lakhs)

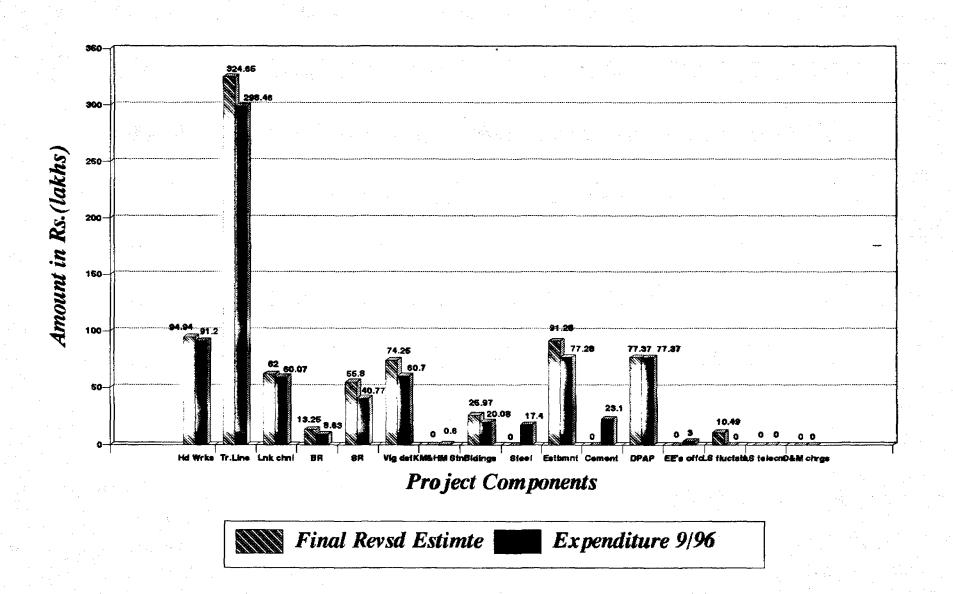
SI.	Particulars	FRE	Expenditr(Rs.)	Expenditr(Rs.)	Expenditr(Rs.)	Expenditr(Rs.)	Balance till
No.			end of 12/95	end of 1/96	end of 6/96	end of 9/96	end of 9/96
1	Head Works	94.94	*	84.47	89.76	91.20	3.74
2	Transmission Line	324.65	*	295.17	297.52	298.46	26.19
	C.I. Specials	024.00		200.17	LOTIOL	200.40	20.10
3	Link Channel	62.00	*	59.00	60.07	60.07	1.93
4	Balancing Reservoi	13.25	*	7.41	8.07	8.63	4.62
5	Service Reservoir	55.80	*	38.84	40.37	40.77	15.03
6	Village Distribution	74.25	*	49.27	55.68	60.70	13.55
7	K.M. & H.M. Stones	0	*	0.60	20.09	0.60	-0.60
8	Buildings	25.97	*	20.09	0.60	20.08	5.89
9	Steel	0.00	*	17.40	17.40	17.40	-17.40
10	Establishment	91.28	*	77.28	77.28	77.28	14.00
11	Cement	0.00	*	21.78	22.31	23.10	-23.10
12	DPAP	77.37	*	77.37	77.37	77.37	0.00
13	E.E.'s Office Buldin	0.00	*	3.00	3.00	3.00	-3.00
14	L. S. Fluctuation	10.49	*	0.00	0.00	0.00	10.49
15	L.S. Telecom	0.00	*	0.00	0.00	0.00	0.00
16	Eatablishment chrg	0.00	*	0.00	21.17	0.00	0.00
	on O&M from 3/94						
	TOTAL	830.00	*	751.68	790.69	778.66	51.34

(95.44-44.1)

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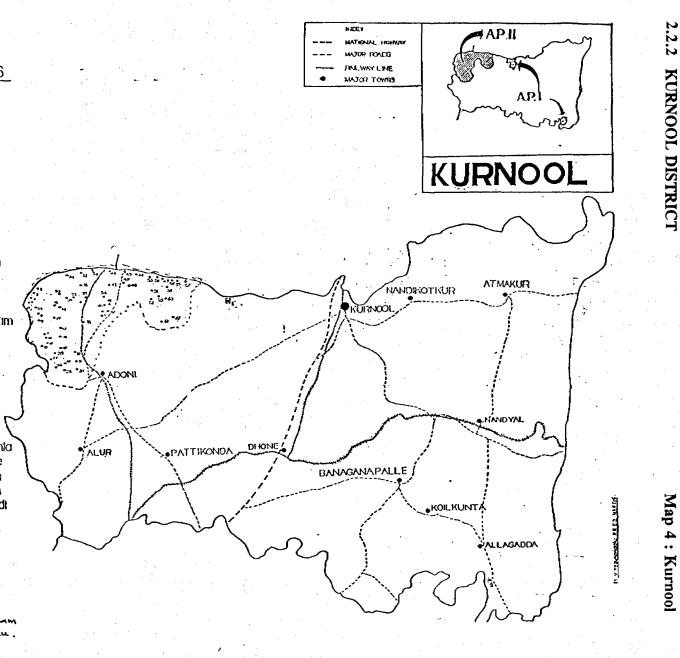
Note : * QPR till end of 12/95 not submitted

Budget & Expenditure Abstract Statement RWS Kollapur (September 96)





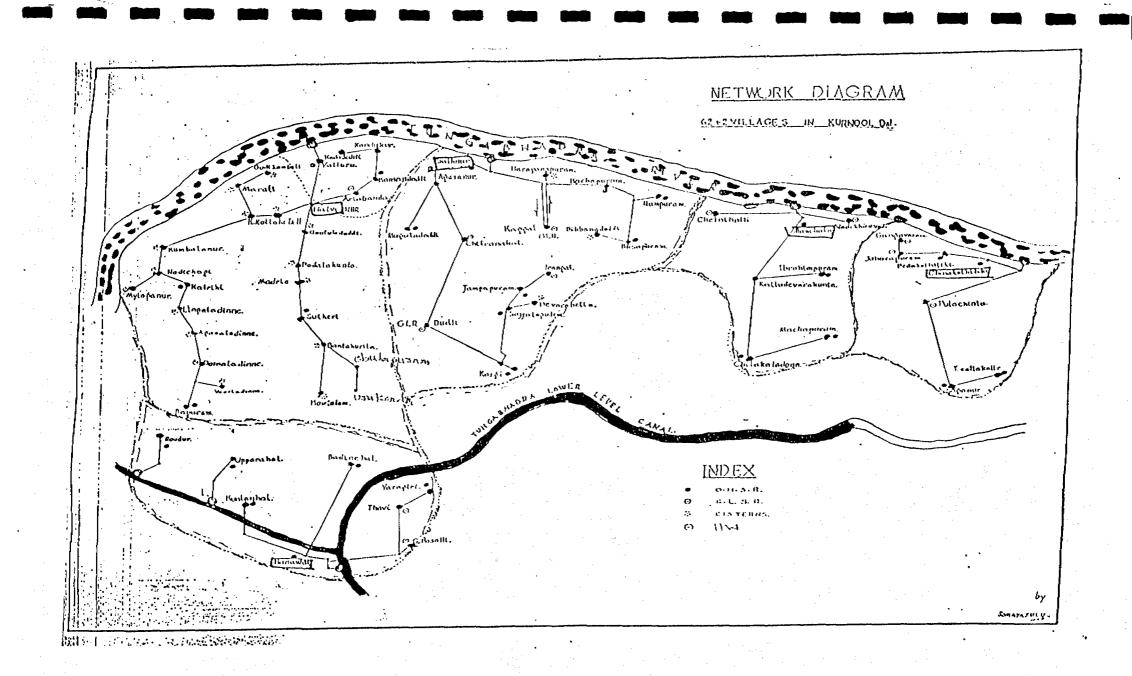
ı Halvi 2 Gudikampall ss Agasanoor 3:Satanur 1 Murati k. Kumpalanur ».Chirafanakal s Kumpalanur Kollala 🥵 Mogaladoddi ...Nodichagt 97.Duddi 1 Mylaganur ».Kosigi . a KatriKi 3». Deverabelta Lingaladinne ⊿ Sajjabgudem Domaladinne
 Agasabatinna
 Vcerladinna 41. Jampapuram #Irongal 43.Kaggal e Bepuram 4 Narayonapuram " Colhuladaddi . Podulakunta 45 Kachapuram 🖌 Madira «Ramopuram 12 Dibbnadoddi 🐖 Sulekeri 48asapuram Bahakunta ы Kowlhalam 4a Manchalo 12 Vallur-Chelnihalli 30 Arlábanda a Kallodevoiakunta 31 * Chilakaladinne Kamandoddi 21 Kadadoddi s:Machapuram 23 * Ibrahimpuram Kondukur ч; 5 Nadikhyrawadi Harwal 25 \$.Gangovaram Kunlanahal 26 Upparahat 9. Chinnakothiliki 27 Badinchal 58 Poddakolhilki 28 Rowdur 57 JOharapuram 35 aPulichenta 3 Hosalli పె 61. Seepnur Thovi Э Q.T.Sollakur Yeriqeri 31 63. Obulapuzan 64. Urukundu.



Netherlands Assisted Projects Office

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Half-yearly Progress Report April - September 1996



تتروعم وأرقيه فأنشكته

KURNOOL PROJECT

Kurnool district consists of 5 CPWSS and 2 IPWSS designed to cover 64 villages.

As per the latest reports (QPR/PR) 47 (73.5%) villages are covered with water supply.

Till last reporting period only 3 CPWSS (Manchala, Chinnakothiliki and Hanawal) were in operation. Presently it is reported that 5 schemes are in operation. 2 IPWSS which were part of Hanawal segment are yet to be completed.

Status, the physical works:

Total	:	255	
Completed	:	242	
Incomplete	:	13	
% of completion	:	95	
% of incompletion	:	5	
No. of completion rep	orts		
approved	:	44 (76	more are ready)

The pending works:

I. CPWSS Halvi

- 1. Gravity Main GLBR Halvi to 25 villages
- 2. Village Distr. System Vurukunda

II. CPWSS Hanawal

- 3. OHSR Upperhal
- 4. OHSR Rowdur
- 5. VDS Upperhal
- 6. VDS Rowdur
- III. CPWSS Sathnur
- 7. Fencing at Sathnur H/W
- 8. GM Duddi to Segment I
- 9. GM Kaggal to Segment II
- 10. VDS Hoogala Doddi
- 11. VDS Sathnur
- 12. VDS Katchapuram
- 13. VDS to Basapuram

In CPWSS Manchala and Chinnakothiliki all physical works are completed and no physical work is pending.

The Physical Progress:

Status of Major Components (till end of 9/96)

District: Kurnool

Items	Total works	Works deleted	Complete till 2/96	Complete till 9/96	Progress 3/96-9/96	Balance 9/96
Filters	7	0	3	7	4 .	0
S.S.Tanks	3	0	1	3	2	0
S. Tanks	4	0	4	4	0	0
R/W Wells	6	0	6	6	0	0
C/W Sumps	7	0	6	7	1	0
Pump Houses	12	0	9	12	3	0
Pumping Units	23	*	*	*	*	*
OHSR	25	0	23	23	0	2
BR	4	0	4.	4	-	0
GLSR	10	0	9	10	0	0
Cisterns	47	0	35	*	*	*
Buildings	15	0	12	15	0	0
R/W tr lines (km)	5.65	0	5.386	*	*	*
C/W tr lines (km)	197.6	0	190.89	*	*	*
Dist. line village(km)	25.6	0	15	*	*	*

Analysis is based on QPR (6/96, 9/96 and fortnightly progress reports)

* indicate that information is not available.

The Physical Progress during the reporting period:

- 4 filters have been completed
- One C/W sump has been completed
- 3 pump houses have been completed
- 2 Summer storage tanks have been completed

56

Table : 2

The Financial Progress:

Estimated cost (FRE)	:	Rs.1109.80 lakhs
Expenditure	:	Rs.1104.87 lakhs
Balance	:	Rs. 4.93 lakhs
% expenditure	:	99.55%
% Balance	:	0.45%

In the following components excess expenditure is observed:

Halvi CPWSS:

FRE	:	Rs.271.5	lakhs
Expenditure (9/96)	:	Rs.283.8	lakhs
Excess	:	Rs.12.3	lakhs

M.S. Charges:

FRE	:	Rs.130.0 lakhs
Expenditure (9/96)	· •	Rs.142.86 lakhs
Excess		Rs.12.86 lakhs

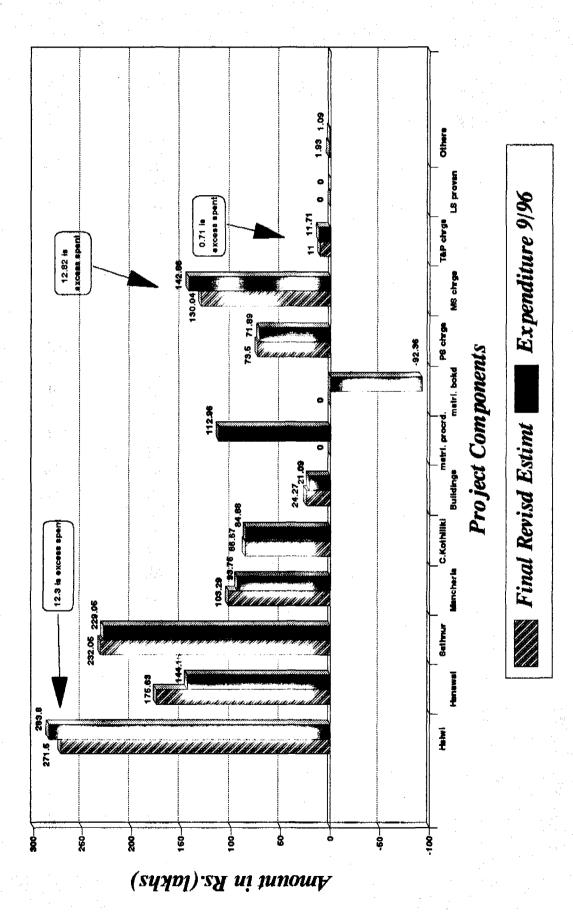
To summarise the status of the Kurnool project, with 99.55% expenditure 95% of works are completed and 73% villages are covered.

ABSTRACT STATEMENT ON BUDGET & EXPENDITURE OF RWS YEMMIGANUR (KURNOOL PROJECT)

Amount in Rs.(lakhs)

SI.	Particulars	Scope of	FRE	Expenditr(Rs.)	Expenditr(Rs.)	Expenditr(Rs.)	Expenditr(Rs.)	Balance till
Š		Villages		end of 12/95	end of 2/96	end of 6/96	end of 9/96	end of 9/96
-	Zone 1	26	271.50	286.52	277.75	283.36	283.80	-12.30
	CPWSS Halwi							
N	Zone 2	8	175.63	175.63	131.38	139.76	144.15	31.48
	CPWSS Hanawal							
က	Zone 3	16	232.05	232.05	218.7	225.15	229.05	3,00
	CPWSS Sathnur							
4	Zone 4	2	103.29	103.29	93.49	93.81	93.75	9.54
_	CPWSS Mancherla	-						
S	Zone 5	2	86.67	86.77	85.19	84.85	84.88	1.79
	CPWSS Chinnakothiliki							
ဖ	Buildings		24.27	24.27	21.69	21.65	21.09	3.18
2	Steel & Cement	•	0.00	00.00	112.96	112.96	112.96	-112.96
	procured						×	-20.6
ω	Steel & Cement	•	0.00	00.0	-89.42	-91.19	-92.36	92.36
	booked on works							
σ	P.S.Charges	1	73.50	73.50	84.89	71.09	71.89	1.61
9			130,04	130.04	142.11	141.94	142.86	-12.82
1 T	T & P Charges	•	11.00	11.00	11.71	11.71	11.71	-0.71
4	_		0.00	0.00	6.72	0.00	00.0	00.0
13	Others	•	1.93	1.93	0.79	0.81	1.09	0,84
	TOTAL	64	1109.88	1125.00	1097.96	1095,90	1104.87	5.01
								(143.8-138.79)

Budget & Expenditure Abstract Statement RWS Ŷemmiganur (September 96)



2.2.3 MEDAK DISTRICT

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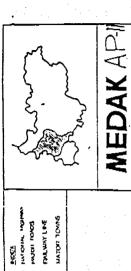
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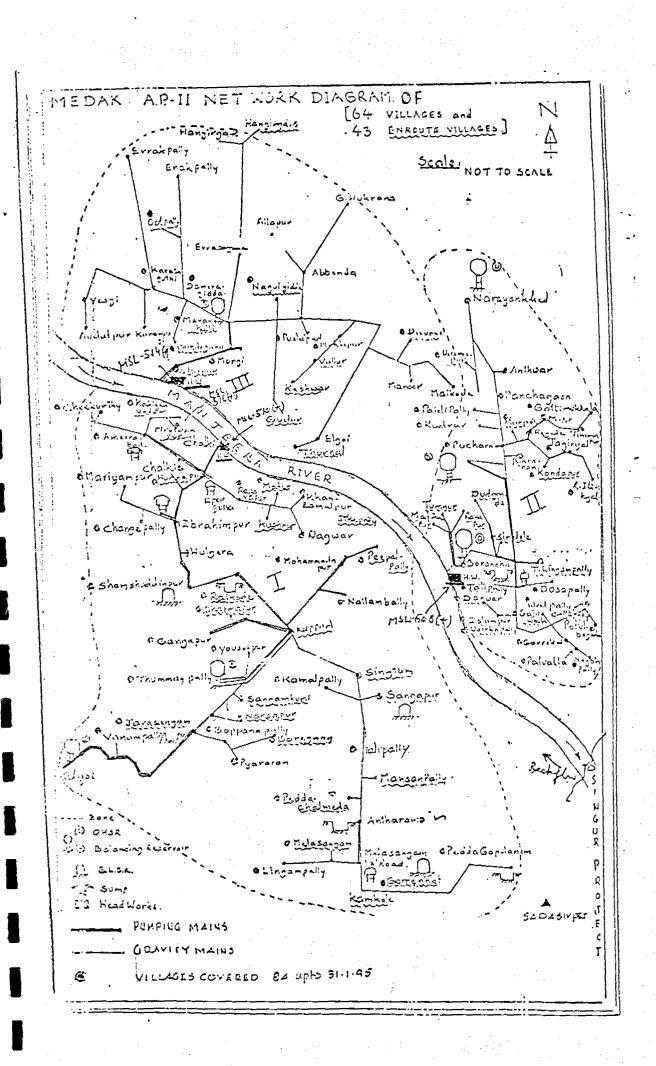
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NAP AP.11 PROJECT VILLAGES

 "Venkałapur "Itkiel "Itkiel "Itkiel "Poraram "Poraram "Poraram "Poraram "Poraram "Portata "Natpali "Na	Najwar Shamshuddinpur Narayankhod Panchagaon Anthwar Paudrar Rudrar	
* * * * * * * * * * * * * * * * * * * *	 Products Shamshar Shamshar Shamshar Shamshar Anthwar Anthwar<!--</td--><td>= 110 #</td>	= 110 #
 Kanvalapalli Tummadpalli Youcuffur Nahamdapuli Vergoi /ul>	utraran Jularam apalit Julapata Indoka Imapur	+ 43 EV +3 AEV

Map 6 : Medak

Netherlands Assisted Projects Office



MEDAK PROJECT

Medak district consists of 3 CPWSS in AP II with a coverage of 110 villages. By the end of Sept 96, 105 villages (95%) are covered with water supply.

Status, the physical works:

Total	:	323	
Complete	:	315	
Incomplete	:	8	
% of completion	:	98	
% of incompletion	:	2	
No. of completion rep	orts		
approved	:	297	

The pending works:

I. CPWSS Borancha

- 1. Staff quarters Borancha
- 2. Ground Level Balancing Reservoir at Tumnurgutta
- 3. Booster at Nagulapally

II. CPWSS Karasguthy

- 4. SO Building at Headworks
- 5. Staff quarters at Headworks
- 6. GM Manual to Maikode
- 7. GM Abinda to Kukrana
- 8. GM to Yesgi & Audathpur

In CPWSS Ibrahimpur all the physical works are completed.

The Physical Progress:

Status of Major Components (till end of 9/96)

Table - 3

Items	Total works	Complete till 1/96	Complete till 9/96	Progress 2/96 - 9/96	Balance 9/96
Filters	3	3	3		0
S.S.Tanks	-	_	.	-	-
S. Tanks	3	3	3	-	0
R/W Wells	3	3	3	-	0
C/W Sumps	5	4	5	1	0
Pump Houses	7	6	7	1	0
Pumping Units	15	14	15	1	0
OHSR	4	4	4	-	0
BR	12	12	12		0
GLSR	96	90	95	5	1
Cisterns	-	-	-	_	-
Buildings	15	15	15		0
R/W tr lines(km)	0.9	0.9	0.9	-	0
C/W tr lines(km)	261.45	257.8	257.8	0	3.65
Dist.linevillage (km)	4	3.7	3.74	0	0.26

Analysis is based on QPR (6/96, 9/96 and fortnightly progress reports)

The Physical Progress during the reporting period:

- 1 C/W sumps has been completed
- 1 pump house has been completed
- 1 pumping unit has been completed
- 5 GLSRs have been completed

The Financial Progress:

Estimated cost (RRE)	:	Rs.1088.00 lakhs
Expenditure	:	Rs.1103.28 lakhs
Excess in expenditure	:	Rs. 15.28 lakhs
% Expenditure	:	101
% Balance	:	1

The excess expenditure incurred is as follows:

1. Cost of Materials:

Estimated Cost	:	0
Expenditure (9/96)	:	Rs.15.84 lakhs
Excess	:	Rs.15.84 lakhs

2. Cost of Excess steel and Cement:

Estimated cost	:	0
Expenditure (9/96)	:	Rs.13.66 lakhs
Excess	:	Rs.13.66 lakhs

3. Major Establishment charges

Estimated cost	:	Rs. 70.72 lakhs
Expenditure	:	Rs.156.41 lakhs
Excess	:	Rs. 85.69 lakhs

4. Transfer to Miryalaguda division:

ŝ

Estimate cost	:	0
Expenditure	:	Rs.15 lakhs
Excess	:	Rs.15 lakhs

Cost of materials, steel and cement can be adjusted in civil works and as such they are not excess expenditure. The amount reported to have been transfered to Miriyalaguda division, Rs.15 lakhs, is coming from earlier fundsavailable for preparation for AP III. This amount will NOT included in reimbursement claims for Medak AP II.

In short, Medak district has achieved 101 % financial progress with 95% villages covered and 98% items completed.

ABSTRACT STATEMENT ON BUDGET & EXPENDITURE OF RWS MEDAK

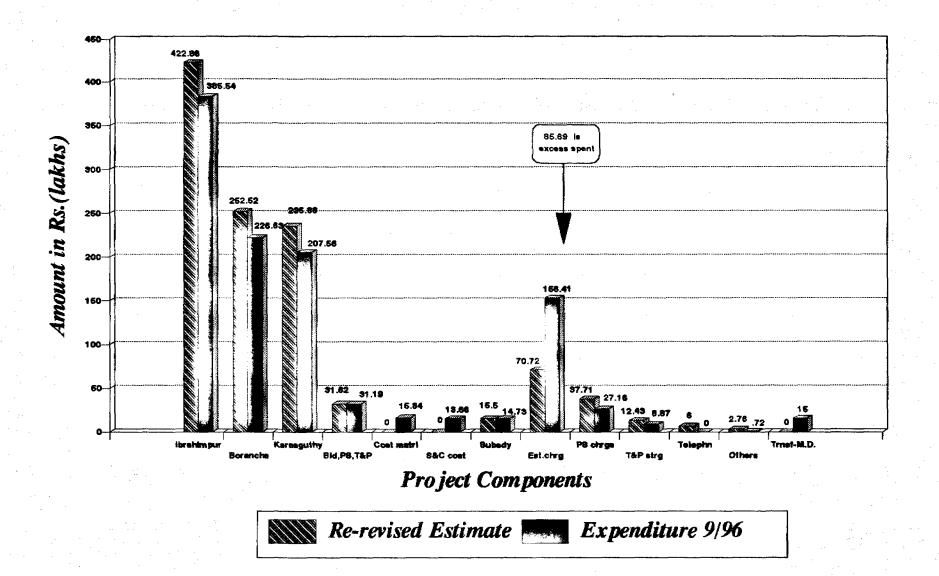
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Amount in Rs.(lakhs)

1 Zone 1 46 422.86 379.85 383.26 384.10 385.54 3 2 Zone 2 35 252.52 221.71 222.69 222.70 226.63 2 3 Zone 3 29 235.88 202.04 203.04 205.10 207.56 2 4 Buildings including - 31.62 31.19 31.19 31.20 31.19 3 5 Cost of material - 0.00 18.17 17.63 16.50 15.84 -11 6 Cost of Steel & Cement - 0.00 15.11 14.02 15.40 13.66 -11 7 Subsidy paid to APSEB - 15.50 14.33 14.33 14.70 14.73 0 8 Major establishment - 70.72 145.47 149.52 152.70 156.41 -80 9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 <	SI.	Particulars	Scope of	RRE	Expenditr(Rs.)	Expenditr(Rs.)	Expenditr(Rs.)	Expenditr(Rs.)	Balance till
CPWSS Ibrahimpur	No.		Villages		end of 12/95	end of 3/96	end of 6/96	end of 9/96	end of 9/96
2 Zone 2 35 252.52 221.71 222.69 222.70 226.63 2 3 Zone 3 29 235.88 202.04 203.04 205.10 207.56 2 4 Buildings including - 31.62 31.19 31.19 31.20 31.19 31.19 5 Cost of material - 0.00 18.17 17.63 16.50 15.84 -11 6 Cost of Steel & Cement - 0.00 15.11 14.02 15.40 13.66 -11 7 Subsidy paid to APSEB - 15.50 14.33 14.33 14.70 14.73 -4 9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 5.90		Zone 1	46	422.86	379.85	383.26	384.10	3 85.54	37.32
CPWSS Borancha (32+3 AEV) Image: CPWSS Karasgutty 29 235.88 202.04 203.04 205.10 207.56 24 4 Buildings including - 31.62 31.19 31.19 31.20 31.19 31.19 31.20 31.19 31.19 31.20 31.19 31.20 31.19 31.19 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20 31.20		CPWSS Ibrahimpur	- 						
3 Zone 3 29 235.88 202.04 203.04 205.10 207.56 20 4 Buildings including - 31.62 31.19 31.19 31.20 31.19 31.19 5 Cost of material - 0.00 18.17 17.63 16.50 15.84 -11 6 Cost of Steel & Cement - 0.00 15.11 14.02 15.40 13.66 -13 7 Subsidy paid to APSEB - 15.50 14.33 14.33 14.70 14.73 0 8 Major establishment - 70.72 145.47 149.52 152.70 156.41 -89 9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 3	2	Zone 2	35	252.52	221.71	222.69	222.70	226.63	25.8 9
CPWSS Karasgutty - 31.62 31.19 31.19 31.20 31.19 4 Buildings including P.S. and T&P - 31.62 31.19 31.19 31.20 31.19 31.20 5 Cost of material - 0.00 18.17 17.63 16.50 15.84 -19 6 Cost of Steel & Cement - 0.00 15.11 14.02 15.40 13.66 -11 7 Subsidy paid to APSEB - 15.50 14.33 14.33 14.70 14.73 0 8 Major establishment charges - 70.72 145.47 149.52 152.70 156.41 -88 9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 3		CPWSS Borancha	(32+3 AEV)						
4 Buildings including P.S. and T&P - 31.62 31.19 31.19 31.20 31.19 31.19 5 Cost of material - 0.00 18.17 17.63 16.50 15.84 -19 6 Cost of Steel & Cement - 0.00 15.11 14.02 15.40 13.66 -19 7 Subsidy paid to APSEB - 15.50 14.33 14.33 14.70 14.73 0 8 Major establishment charges - 70.72 145.47 149.52 152.70 156.41 -89 9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 3.90		1	29	235.88	202.04	203.04	205.10	207.56	28.32
P.S. and T&P 0.00 18.17 17.63 16.50 15.84 -19 5 Cost of material - 0.00 18.17 17.63 16.50 15.84 -19 6 Cost of Steel & Cement - 0.00 15.11 14.02 15.40 13.66 -19 7 Subsidy paid to APSEB - 15.50 14.33 14.33 14.70 14.73 0 8 Major establishment - 70.72 145.47 149.52 152.70 156.41 -89 9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 3		CPWSS Karasgutty							
5 Cost of material - 0.00 18.17 17.63 16.50 15.84 -18 6 Cost of Steel & Cement - 0.00 15.11 14.02 15.40 13.66 -18 7 Subsidy paid to APSEB - 15.50 14.33 14.33 14.70 14.73 0 8 Major establishment - 70.72 145.47 149.52 152.70 156.41 -88 9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 3	4	Buildings including	-	31.62	31 .19	31.19	31.20	31.19	0.43
6 Cost of Steel & Cement - 0.00 15.11 14.02 15.40 13.66 -13 7 Subsidy paid to APSEB - 15.50 14.33 14.33 14.70 14.73 0 8 Major establishment - 70.72 145.47 149.52 152.70 156.41 -89 9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 3		P.S. and T&P							
7 Subsidy paid to APSEB - 15.50 14.33 14.33 14.70 14.73 0 8 Major establishment - 70.72 145.47 149.52 152.70 156.41 -85 9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 3	5	Cost of material	-	0.00	18.17	17.63	16.50	15. 84	-15.84
8 Major establishment charges - 70.72 145.47 149.52 152.70 156.41 -89 9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 3	6	Cost of Steel & Cement	-	0.00	15.11	14.02	15.40	13,66	-13.66
charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 3	7	Subsidy paid to APSEB	-	15.50	14.33	14.33	14.70	14.73	0.77
9 P.S. Charges - 37.71 25.18 25.97 26.70 27.16 10 10 T & P storage - 12.43 8.87 8.87 8.90 8.87 5	. 8	Major establishment	-	70.72	145.47	149.52	152.70	156.41	-85. 69
10 T & P storage - 12.43 8.87 8.87 8.90 8.87							·		
			-	37.71	25.18	25.97	26.70	27.16	10.55
11 Telephone charges - 6.00 0.00 0.00 0.00 0.00 0.00	10	T & P storage	-	12.43	8.87	8.87	8.90	8.87	3.56
				6.00	0.00	0.00	0.00	0.00	6.00
12 Other unforeseen items - 2.76 0.72 0.72 0.70 0.72 2.76	12	Other unforeseen items	-	2.76	0.72	0.72	0.70	0.72	2.04
13 Transfer to Miryalguda - 0.00 15.00 15.00 15.00 -15.0	13	Transfer to Miryalguda	-	0.00	15.00	15.00	15.00	15.00	-15.00
divísion									
TOTAL 110 1088.00 1077.63 1086.24 1093.70 1103.28 -15		TOTAL	110	1088.00	1077.63	1086.24	1093.70	1103.28	-15.28

(114.91-130.18)

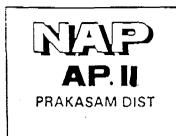
Budget & Expenditure Abstract Statement RWS Medak (September 96)

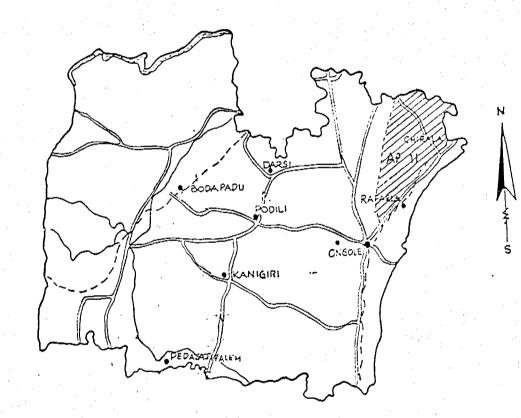


Half-yearly Progress Report April - September 1996

2.2.4 PRAKASAM DISTRICT

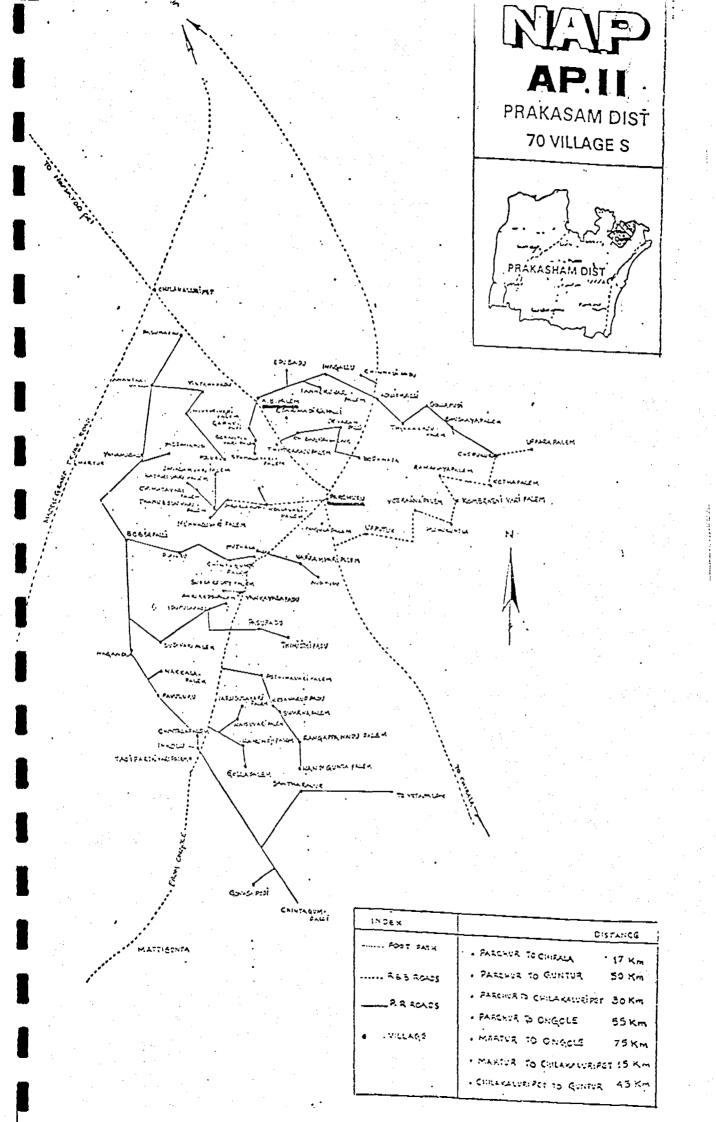
Map 8 : Prakasam





11	KDEX
	MAJOR ROAD NATIONAL HIGHWAY
	RAILWAY LINE
-	RIVERS
1	

Netherlands Assisted Projects Office



PRAKASAM PROJECT

Introduction

Prakasam district consists of 3 CPWSS and 34 IPWSS with a total target of 73 villages out of which 70 villages were receiving water (96%) by the end of September 1996.

Status, the physical works:

Total	:	310
Complete	:	288
Incomplete	:	22
% of completion	:	9 3
% of incompletion	:	7
No. of completion rep	orts	
approved	:	1 9 7

The pending works are:

I. CPWSS AB Palem

- 1. Stone filling intake of SST AB Palem
- 2. Extension R/W Gravity main Bobbeipalli
- 3. C/W Sump Adusumalli
- 4. C/W Sump Inagallu
- 5. C/W Sump Cpadu
- 6. Extension VDS AB Palem II
- 7. Extension VDS Deverapalli II
- 8. Extension VDS Bodawada II
- 9. Canal off take of GM BPalli
- II. CPWSS MV Palem
 - 10. Additional pumps at Punur
 - 11. Extension VDS MV Palem & 40 other villages
- III. IPWSS
 - 12. Augmentation PWSS Daggubadu
 - 13. Augmentation PWSS Subbareddy Palem
 - 14. Augmentation PWSS Inkollu
 - 15. Augmentation Ankireddypalem
 - 16. RW Gravity main to Bodawada
 - 17. VDS Bodawada
 - 18. RW GM to Pavluru
 - 19. Booster station RW Palem
 - 20. VDS Kothapalem
 - 21. VDS Zarubulavaripalem
 - 22. VDS Nakkalapalem

All these pending works belong to mop up activities

The Physical Progress:

Status of Major Components (till end of 9/96)

District: Parchur

ltems	Total works	Wo rks deleted	Complete till 2/96	Complete till 9/96	Progress 3/96-9/96	Balance 9/96
Filters	27	1	22	26	4	0
S.S.Tanks	40	13	27	27	-	0
S. Tanks	-	_	-	-	-	
R/W Wells	53	7	45	46	1	0
C/W Sumps	26	0	26	26	-	0
Pump Houses	52	5	41	47	6	0
Pumping Units	151	0	139	149	10	2
OHSR	35	0	-	35	*	0
BR	1	0	1	1	-	0
GLSR	-	-	-	-	-	-
Cisterns	-	-	-	-	-	-
Buildings	10	0	*	*	*	*
R/W tr lines (km)	69.65	0	*	*	*	*
C/W tr lines (km)	59.34	0	*	*	*	*
Dist. line village(km)	89.35	0	*	*	*	*

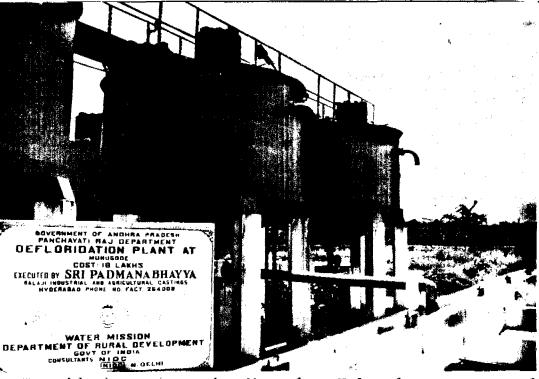
Analysis is based on QPR (6/96, 9/96 and progress reports)

* indicate that information is not available.

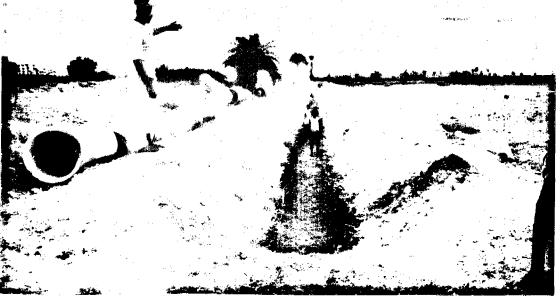
The Physical Progress during the reporting period:

- 4 filters are completed
- 1 R/W well is completed
- 6 pump houses are completed
- 10 pumping units are completed

Table : 4



De-fluoridation plant in Mungode, Nalgonda at cost of Rs.18 lakhs, never operated



Relocation of intake AB Palem, Prakasam, pipe laying now completed, (500 mm pipe/2 kms) connection will be made during canal closure April 1997



Village meeting during PRFS village study Nov ' 96 Villagers, PRED & NAPO

The Financial Progress:

Estimated cost (FRE)	:	Rs.1061.20 lakhs
Expenditure	:	Rs.1005.80 lakhs
Balance	:	Rs. 55.40 lakhs
% expenditure	:	95
% Balance	:	5

In Prakasam project there is no real excess expenditure. The excess expenditure on material, steel and cement could be adjusted against civil works.

Prakasam district has achieved 95% financial progress with 96% villages covered and 93% of physical works completed.

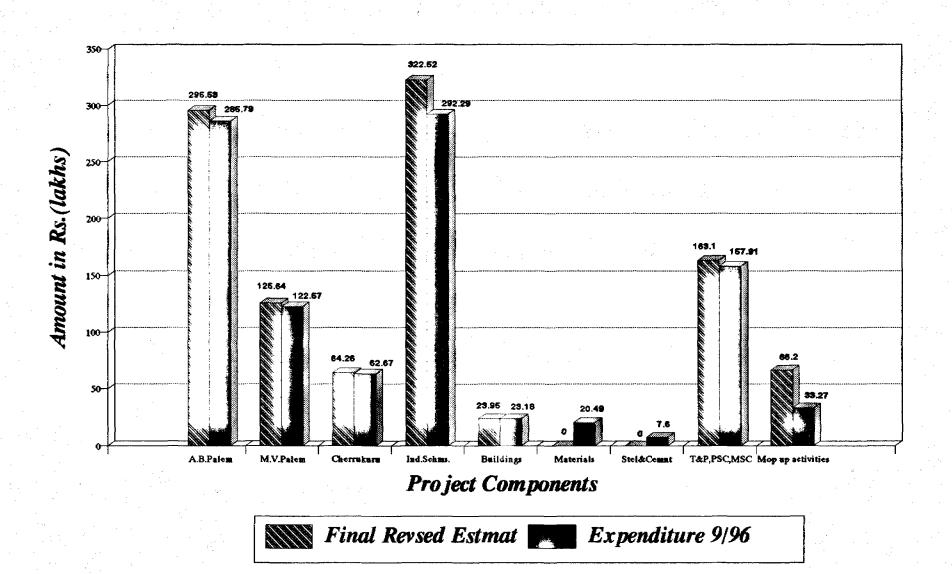
ABSTRACT STATEMENT ON BUDGET & EXPENDITURE OF RWS PARCHUR (PRAKASAM PROJECT)

Amount in Rs.(lakhs)

SI.	Particulars	Scope of	FRE	Expenditr(Rs.)	Expenditr(Rs.)	Expenditr(Rs.)	Expenditr(Rs.)	Balance till
No.		Villages		end of 12/95	end of 3/96	end of 6/96	end of 9/96	end of 9/96
1	Zone 1	20	295.53	284.28	284.65	284.65	285.79	9.74
	CPWSS A.B. Palem							
2	Zone 2	9	125.64	118.93	120.09	120.76	122.57	3.07
	CPWS M.V. Palem							
3	Zone 3	4	64.26	60.45	61.70	61.76	62.67	1.59
	CPWSS Cherrukuru							
4	Zone 4	40	322.52	286.87	287.08	288.02	292.29	30.23
	Individual Schemes	(37+3 AEV)						
5	Buildings	-	23.95	23.18	23.18	23.18	23.18	0.77
6	Materials	-	0.00	18.43	20.49	21.29	20.49	-20.49
	Central stores							
7	Steel & Cement	-	0.00	2.38	2.38	3.79	7.60	-7.60
8	T&P and PSC,MSC	-	163 .10	157.91	157.91	157. 9 1	157.91	5.19
9	Mop up activities	-	66.20	20.67	22.26	25.19	33.27	32.93
	TOTAL	73	1061.20	973.10	979.74	986.55	1005.77	55.43

(83.4-28.1)

Budget & Expenditure Abstract Statement RWS Parchur (September 96)



2.3 Completion planning per district

After having detailed discussion between NAPO, Support Mission and the field engineers and senior engineers of PRED on elaborate planning for completion was prepared for each district.

In the planning not only physical works but also other related aspects such as

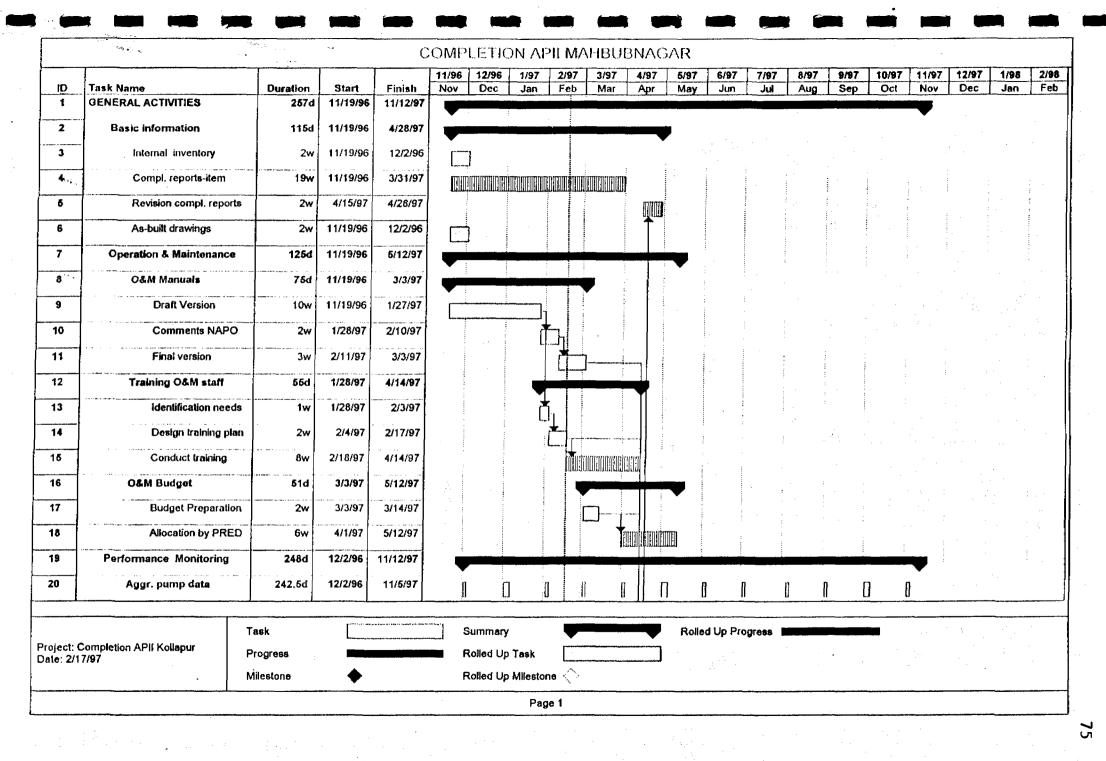
- System stabilisation
- Technical audit
- Rectification
- Preparation of final completion reports

were considered and planned for

Similarly a very detailed schedule is prepared for completion of following general tasks for each district, some of them were overdue.

- Internal Inventory
- Completion reports
- As built drawings
- O & M Manual
- Train O & M Staff
- O & M Budget

• Performance monitoring



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ID	Task Name	Duration	Start	Finish	11/96 Nov	12/96 Dec		2/97 Feb	3/97 Mar	4/97 Apr		<u>6/97</u> 	7/97 Jul	8/97 Aug			11/97 Nov	12/97 Dec	1/98 Jan	2/98 Feb
33	Aggr. delivery data	242.5d	12/2/96	11/5/97		1 1	<u> </u>		<u>ு மன</u> ரி	<u>i apr</u>	[]	<u>Jun</u>	<u> </u> 	¥	1 30	<u>р ос.</u> П	<u>п</u>	Dec	Jan	1100
46	Analysis by HQ/NAPO	244d	12/6/96	11/12/97			·				U m	U CT	ม เก	ון ביו י	U 11	u n'	л. П		·	
59	CPWSS CHINNAMAROOR	105d	11/19/96	4/14/97			Ū						IJ		L	U	LJ			
60	Outstanding works	30d	11/19/96	12/30/96								1								
61	PM KPally-BPally		11/19/96	12/30/96								:								
62	PM KPally-TPally	6w	11/19/96	12/30/96	L,	·····]					i .						•		
63	PM TPally-CPally	6w	11/19/96	12/30/96			-				:						100 - 100 - 100 - 100			
64	PM TPally-TPthanda				ļ												•	÷		
65	VDS -Chinnamaroor	6w 6w	11/19/96	12/30/96 12/30/96			ļ				;		12.1							
					L]													
66	VDS-Veitoor	6w	11/19/96	12/30/96]				:									
67	VDS-Koppunur	6w	11/19/96	12/30/96]					-								
68	VDS-Jetprole	6w	11/19/96	12/30/96	<u> </u>]			:										
69	VDS-Kondur	6w	11/19/96	12/30/96			1				-					· .				
70	VDS-Peddamaroor	6w	11/19/96	12/30/96																
71	VDS-Velgonda	6w		12/30/96	[
72	VDS-Weepanagandia	6w		12/30/96	[:			Ē								
73	VDS-KPally	6w		12/30/96	[]							•		-					
74	Scheme stabilisation		11/19/96	3/3/97																
76	Technical audit	2w	3/4/97	3/17/97								1							•	
76	Rectifications	4w	3/18/97	4/14/97					Ľ.			4.			-					
	·····																			
Project:	Completion APII Kollapur	ask rogress	· · · · · · · · · · · · · · · · · · ·			Summar Rolled U					7 - Rolle	d Up Pro	gress				· · · ·		· .	
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					11/96		1/97	2/97	3/97	4/97	5/97	6/97	7/97	8/97	9/97		11/97	12/97	1/98	2/98
1D 77	Task Name PROJECT COMPLETION	Duration 130d	Start 11/19/96	Finish 6/19/97	Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Fet
78	Prep. draft final report	21w		· · · · · ·	0.52112			: ::::::::::::::::::::::::::::::::::::		n'n'n			·							
	· · · · · · · · · · · · · · · · · · ·												•							
79	Final completion report	4w	4/15/97								\Box_1							. ·		
80	Submission to RNE	1w	5/13/97	5/19/97							Ď		·	· ·				· .		
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roject: C ate: 2/1	Completion APII Kollapur 7/97	Progress				Rolled Up	o Task]			•							
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	Item	Target Date
1.	Physical works	31/12/96
2.	Scheme stabilisation	03/03/97
3.	Technical Audit	14/03/97
4.	Rectification	14/04/97
5.	Internal Inventors	02/12/96
6.	Completion Report	28/04/97
7.	As built drawings	02/12/96
8.	O & M Manual	03/03/97
9.	Training O&M Staff	14/04/97
10.	Final Completion report	19/05/97

In Mahbubnagar physical works are scheduled to be completed by December end and scheme stabilisation is in progress which is scheduled for completion by 03/03/97.

Final completion report is scheduled for 10/05/97 after giving allowance for other preparatory activities such as internal reports preparations, internal audit and rectification.

<u>ID</u>					11/96	12/96	1/97	2/97	3/97	4/97	6/97	6/97	7/97	8/97	9/97	10/97	11/97	12/97
1	Task Name	Duration	Start	Finlsh	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	GENERAL ACTIVITIES	257d	11/19/96	11/12/97														
2	Basic information	145d	11/19/96	6/9/97														
3	Internal inventory	14w	11/19/96	2/24/97					·····) ·									
4	Compl. reports-item	19w	11/19/96	3/31/97													• •	
5	Revision compl. report	8 2w	5/27/97	6/9/97							ſ		-			t di t	:	
6	As-built drawings	14w	11/19/96	2/24/97	FIDUC						Í							:
7	Operation & Maintenance	95d	3/3/97	7/11/97														
8	O&M Manuals	50d	3/17/97	6/23/97														
9	Draft Version	6w	3/17/97	4/25/97					¥	h								
10	Comments NAPC	2w	4/28/97	5/9/97			ч. -	· .		Į	<u>_</u> ן ו							· .
11	Final version	2w	5/12/97	5/23/97														
12	Training O&M staff	55d	4/28/97	7/11/97							i) i						÷.	
13	Identification need	s 1w	4/28/97	5/2/97						, t	, I	· .				•		
14	Design training pla	n 2w	5/5/97	5/18/97			1A -				$\mathbf{b}_{\mathbf{r}}$							
15	Conduct training	8w	5/19/97	7/11/97												:		
16	O&M Budget	51d	3/3/97	5/12/97				ų			➡ []			•				
17	Budget Preparatio	n 2w	3/3/97	3/14/97				. []				-					•
18	Allocation by PRE	D 6w	4/1/97	5/12/97					T									
19	Performance Monitoring	248d	12/2/96	11/12/97	Ţ													· ·
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77	Fencing at Sathnur	6w	11/19/96	12/30/96								· .					
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80	VDS Moogaladoddl	2w	11/19/96	12/2/96										: .		-	
81	VDS Sathnur	2w	11/19/96	12/2/96													
82	VDS Katchapuram	2w	11/19/96	12/2/96													
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86	Rectifications	4w	4/29/97	5/26/97					Ĩ								
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88	Scheme stabilisation	6w	11/19/96	12/30/96			-1									-	
89	Technical audit	4w	1/28/97	2/24/97			*									•	
90	Rectifications	4w	2/25/97	3/24/97									-		: :		
91	CPWSS CHINNAKOTHILIKI	. 90d	11/19/96	3/24/97									: :			:	
92	Scheme stabilisation	10w	11/19/96	1/27/97				•			•			:	į	:	-
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Half-yearly Progress Report April - September 1996

	Item	Target Date
1.	CPWSS Halvi	26/05/97
2.	CPWSS Hanawal	26/05/97
3.	CPWSS Sathnur	26/05/97
4.	CPWSS Manchala	24/03/97
5.	CPWSS C hinnakothiliki	24/03/9 7

CPWSS Halvi, Hanawal and Sathnur have physical works pending which is why completion of those schemes is scheduled up to 26/05/97.

CPWSS Manchala and Chinnakothiliki do not have any physical works pending but other tasks are still to be completed such as :

i. Scheme stabilisation

ii. Technical Audit

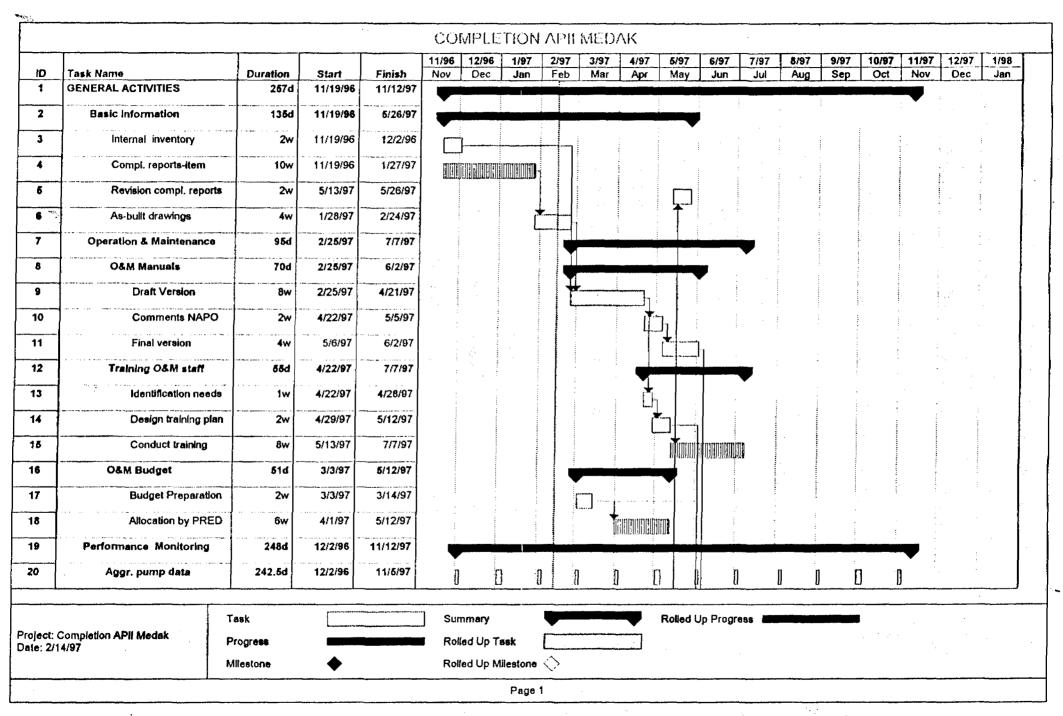
iii. Rectification

Simultaneously, the following works which are common for the district are scheduled.

	Item	Target Date
1.	Inventory	24/02/97
2.	Completion report	31/03/97
3.	As-built drawings	24/02/ 97
4.	O & M Manual	23/05/97
5.	Training O&M Staff	11/07/97
6.	Final Completion report	30/06/97

In Kurnool project scheme stabilization is continuing up to 31/03/97 hence over all completion of schemes is extending up to 25/05/97.

Allowing a months time, the preparation of final completion report is scheduled to be submitted to RNE by 30/06/97.



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69	CPWSS IBRAHIMPUR	125d	11/19/96	5/12/97			Ĺ	·		Ľ			Ľ	Ľ	ប	U :	U	· .		
60	Scheme stabilisation		11/19/96	3/31/97	(P170)	417570175717571771	Teerrametre	TUTUTORITY					-							
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61	Technical audit	2w	4/1/97	4/14/97										• •				•		
62	Rectifications	4w	4/15/97	5/12/97						Ű.										
63	CPWSS BORANCHA	125d	11/19/96	5/12/97			;								-					
64	Outstanding works	30d	11/19/96	12/30/96			J													
65	Staff quarters Borancha	4w	11/19/96	12/16/96	Г]						.								
66	GLBR at Tumnurgutta	4w	11/19/96	12/16/96		7			•											
67	Booster NPally	6w	11/19/96	12/30/96	بىد ، ئىسىم	 														
68	Scheme stabilisation	19w	11/19/96	3/31/97	L		NITE TELEVISION	I GUI I ANTITUT												
69	Technical audit	2w	4/1/97	4/14/97	NDUN	RILLIILIILIILIILII		TISTIN FALLANT	U BLICINICULUU III F	L										
70	Rectifications	4w	4/15/97	5/12/97					ļ]	176779									
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72	Outstanding works	30d	11/19/96	12/30/96			•											· ·		
73	SO building at h/w	2w	11/19/96	12/2/96								i								
74	Staff quarters h-w	4w	11/19/96	12/16/96								-					:			
75	GM Mannur to Maikode	2w	11/19/96	12/2/96	[]															
76	GM Abenda to Hukrana	6w	11/19/96	12/30 /96]							:							
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78	Scheme stabilisation	19w	11/19/96	3/31/97					lillill)	-							•	
19	Technical audit	2w	4/1/97	4/14/97					*]1		•					e Alfa e	
0	Rectifications	4w	4/15/97	5/1 2/97								÷					· .	
1	PROJECT COMPLETION	165d	11/19/96	7/7/97					:						•		ъ. т.	
2	Prep. draft final report	21w	11/19/96	4/14/97		Ngananga				 		•				· · · · · · · · · · · · · · · · · · ·		
3	Final completion report	4w	6/3/97	6/30/97	HUIUL	UNI 21 21 21 21 21 21 21 21 21 21 21 21 21	nd ta		LI I SI SI KI	.1	₩	· ····]			:			
4	Submission to RNE	1w	7/1/97	7/7/97					:		·			. ¹ N	÷			
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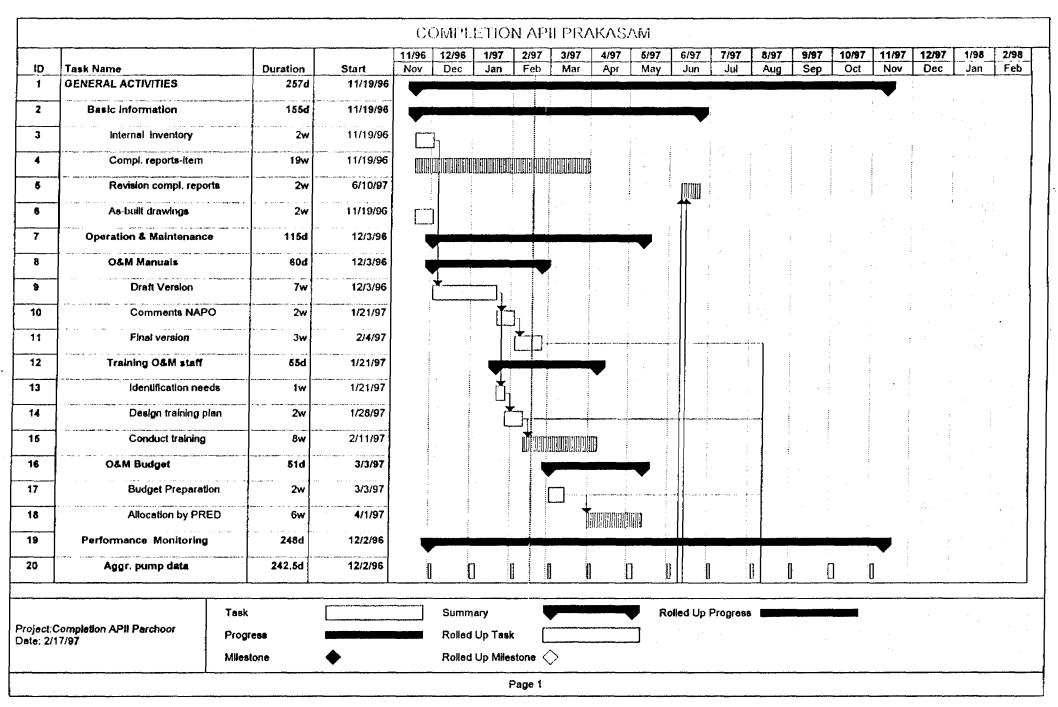
Half-yearly Progress Report April - September 1996

	Item	Target Date
1.	CPWSS Ibrahimpur	12/05/97
2.	CPWSS Borancha	12/05/97
3.	CPWSS Karasguthy	12/05/97

Other general activities are scheduled as

Internal Inventory	02/12/96
O & M Manual	02/06/97
Completion Reports	26/05/97
As built drawings	24/02/97
Training of O&M staff	07/07/97
Final Completion report	07/07/97

There are no physical works pending but for scheme stabilisation time is given up to 31/03/97 and 6 weeks time is reserved for technical audit and rectification, hence completion of scheme is scheduled for 12/05/97.



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33	Aggr. delivery data	242.5d	12/2/ 96	INUV	<u>Dec</u> 		1	<u>Mar</u>	<u>, Apr</u> 1	[]	1_JUN_	1 <u> </u>		l seb	<u>1 Oct</u> []]]	Dec		reo
46	Analysis by HQ/NAPO	244d	12/6/96					:U : [1]	י ו ח	u M		נו		л.	и П	е Г1			
59	CPWSS ABPALEM	126d	11/19/96		ل يا (i LJ			L_]		11	1.)		L		Ц.			
60	Outstanding works	30d	11/19/96							. .									·
61	Stone filling around intake	e 6w	11/19/96			1													
62	Extn RW GM Bpalli	5w	11/19/96	ــــا ـــــ		J		t t	· · ·			• .	1			•			
63	CW Sump Adusumalli		11/19/96	l	J	1													
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66	Extn VDS ABPalem II		11/19/96	L.,	· · · · · · · · · · · · · · · · · · ·										:				
67	Extr VDS Deverapalli 1		11/19/96	L												· ·			
68	Extri VDS Bodawada tt												·	-	: -				
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89 .	Canal off take for GM BPalli	8w	3/3/97	-				[- -			
70	Scheme stabilisation	19w	11/19/96																
71	Technical audit	2w	4/1/97	· ·				-				•		•					
72	Rectifications	4w	4/15/97	:									••••• • . •		·				
73	CPWSS MVPALEM	80d	11/19/96						-			· ·							
74	Outstanding works	30d	11/19/96																
75	Addi. Pumps at Punur	6w	11/19/96			1										÷	•		
76	Extn VDS MVPalem &4	6w	11/19/96]			:											
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78	Technical audit	2w	1/28/97				.									÷ .	· · ·		
79	Rectifications		2/11/97		-			IIIID					<u>.</u>		÷ .				•
80	CPWSS CHERUKURU	25d	1/28/97									-			:				
81	Technical audit	2w	1/28/97				د م ا								•				
82	Rectifications	3w	2/11/97			L.,]											
83	INDIV. SCHEMES	145d	11/19/96												•	:	ļ		
84	Outstanding works	30d	11/19/96			,					-				. •				
86	Augm. PWSS Daggubadu	6w	11/19/96]														
86	Augm. PWSS Subbareddyp	.6w	11/19/96											÷		:			
87	Augm. PWSS Inkollu	бw	11/19/96						:									·	
88	Augm. PWSS Ankirpalem	6w	11/19/96]									•					
89	RW GM to Bodawada	6w	11/19/96					•									•	· .	
90	VDS Budawada	6w	11/19/96																•
91	RW GM to Pavuluru	6w	11/19/96]												· .		
92	Booster stn RNPalem	6w	11/19/96																-
93	VDS Kothapalem	6w	11/19/96	[]	-		-											• .
94	VDS ZVPalem	6w	11/19/96	[]									-				•	
95	VDS Nakkalapalem	6w	11/19/96									· ·							
96	Scheme stabilisation	19w	11/19/96						1								:	•	:
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97	Technical audit	6w	4/1/97							<u> </u>									
98	Rectifications	- 4w	5/13/97									•					· · · ·		
99	PROJECT COMPLETION	215d	11/19/96		-														
100	Prep. draft final report	38w	11/19/96												· .]
101	Final completion report	4w	8/12/97																·
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Half-yearly Progress Report April - September 1996

Item		Target Date
 CPWSS AB CPWSS MN CPWSS Chi IPWSS 	/ Palem	12/05/97 10/03/97 03/03/97 09/06/97

Physical works and scheme stabilisation for AB Palem is continuing till 12/05/97.

Similarly scheme stabilisation and technical audit for a number of individual schemes result in a completion target of IPWSS for 09/06/97.

The general activities schedule is as follows :

Internal Inventory	02/12/96
Completion Reports	31/03/97
As-built drawings	02/12/96
O & M Manual	24/02/97
Training O&M staff	0 7/04/ 97
Final completion report	15/09/97

As there are so many individual augmentation schemes, preparation of Final completion report requires relatively more time and it is linked to many of the above activities (such as scheme completion, completion report, etc.) and targeted up to 15/09/97.

3. OPERATION & MAINTENANCE

3.1 Functioning of schemes as per NAPO monitoring format :

Since 1995 NAPO has been making efforts to introduce a comprehensive monitoring system to assess the utilisation of water supply infrastructure, performance of the schemes and delivery of water supply at village level.

Along with PRED and NGOs working in the NAP project area monitoring formats have been developed and NAPO is receiving monthly information accordingly.

The two tiers of monitoring information received are

- * Aggregate pumping data : PRED is submitting monthly aggregate pumping data both for raw water and clear water for all the schemes
- Village level water monitoring formats : In the villages where NGOs are working, users are collecting the information related to daily supply and through NGOs it being routed to NAP Office for analysis.

Recently it was agreed upon that PRED will start monitoring village level supply on the lines of what NGOs are coordinating and provide this information to NAPO.

Analysing and comparing the above two tiers of information for the reporting period (Apr, 96 to Sept, 96) with the capacities as stated by the PRED in internal inventory formats, an effort is made to assess the volume of raw and clear water pumped, and LPCD supplied at village level. The comparison of these data with the design criteria provides insights to the level of utilisation of RWS infrastructure as built.

(Please refer annexure 3 to find the methodology of analysis.)

Data and Analyses for monitoring of water delivery :

In spite of energetic efforts from NAPO and PRED, the first presentation of such data is far from complete.

On several schemes it proved impossible for the PRED to provide the required data, and these schemes then had to be excluded from the presentation.

On none of the schemes, has PRED been able to provide the data per sub-zone, as was agreed earlier in developing the formats for inventory and pumping data.

The lack of this information prevents us from being able to assess sub-zone and village specifics. Hence the present data, constitute averages per scheme, but do not allow a comparison between the various zones or branches of the schemes, which in our opinion may vary in actual practice.

As for the data on water received in the villages, NAPO can only record these in the villages covered by the community participation programme.

Recording on all the villages of the AP II projects is possible by increasing the coverage of the NGO programme and by PRED's efforts to involve sarpanches in the respective villages to get recordings at village level.

In addition PRED staff would have to be further convinced of the purpose and usefulness of this monitoring, and perceive this as INTERNAL MONITORING, rather than consider it as external monitoring by NAPO.

In spite of the imperfections cited above, NAPO would like to present the results of the monitoring data and analyses as a first effort to introduce the system.

We look forward to PRED's response to these data and their follow up to further fine-tune and introduce a system of monitoring the actual water delivery, within the PRED NAP programme.

3.1.1 MAHABUBNAGAR

Mahabubnagar district consists of one CPWSS, Chinnamaroor. PRED has submitted the aggregate pumping data for the reporting period and the analysis of this information is as follows.

In Mahabubnagar project area it is reported that 32 villages out of 36 are covered with water supply but the aggregate pumping data provided by PRED does not cover the details of second stage pumping at Pentlavally, Kondur, Weepanagandla and Kethepally. It would be interesting to know the pumping details at these second stage pumping stations to analyse transmission losses. How ever after analysing the data submitted to NAPO, the LPCD and pumping details are as follows

Mahbubnagar-Chinnamaroor LPCD trend

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	38.82	17.68	60.51	55.01	39.04	79.22
Clear Water	29.15	14.50	36.70	32.35	24.78	42.74

Mahbubnagar - Chinnamaroor CPWSS capacity utilisation

	~····	01 01 000 0	apacity annu			140.0 0
Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Capacity	100%	100%	100%	100%	100%	100%
R/W pumped	53%	24%	69%	63%	44%	90%
C/W pumped	40%	19%	42%	37%	28%	49%
Village Delivery	NA	NA	NA	NA	NA	NA

As there is no NGO working in the project area, village delivery details are not available. (NA)

The clear water LPCD is varying between 14.5 to 42.74 and the corresponding variation in raw water LPCD pumped is between 17.68 to 79.22 (this figure is derived from the pumping data). As it is evident from the table 3.1.2 there is significant & inconsistent variation in the r/w LPCD and c/w LPCD.

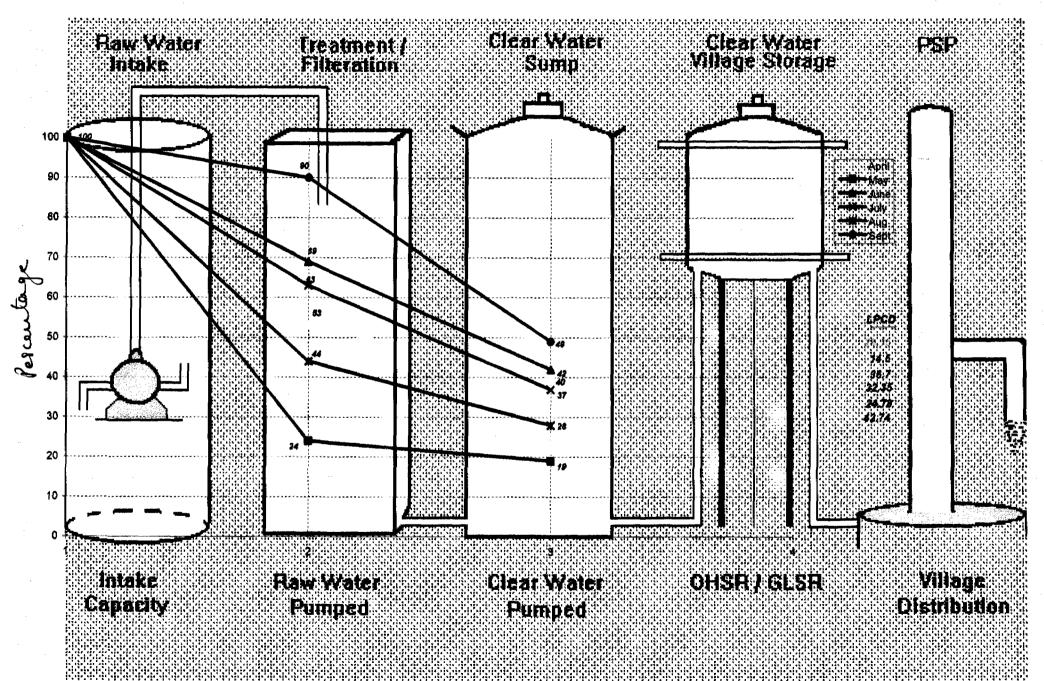
Actual village delivery could be less than the above figure after accounting for transmission losses & water consumed for testing the transmission lines.

The fall in LPCD of May, 96 can be attributed to the drying up of Bekkam tank in May, 96. The rise in LPCD of Sept, 96 could be due to the fact that SRISAILAM reservoir is filled to the brim by Sept, 96.

The scheme is functioning between 19% (May 96) to 49% (Sept, 96) of its capacity.

Table - 5

Table - 6



Percentage losses in operation

Table - 7

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
R/W pumping - C/W pumping	13%	5%	27%	26%	16%	41%

There is no particular pattern in losses in treatment. The loss percentage is as high as 41% in Sept 96. NAPO advises PRED to look into the details and improve on losses.

3.1.2 KURNOOL

Even though in Kurnool district, all the 5 CPWSS are commissioned, aggregate pumping data were submitted for only 3 CPWSS namely Chinnakothiliki, Manchala and Hanawal.

For CPWSS Sathnur and CPWSS Halvi aggregate pumping were not made available, in spite of repeated requests to the concerned staff in the PRED.

PRED has informed NAPO that these schemes are not yet stabilized, and hence no data on aggregate pumping could be made available.

NAPO begs to disagree with that, because regular or irregular, data on actual pumping can and should be recorded.

These two schemes could hence not be included in the monitoring system.

CHINNAKOTHILIKI

Chinnakothiliki LPCD trend

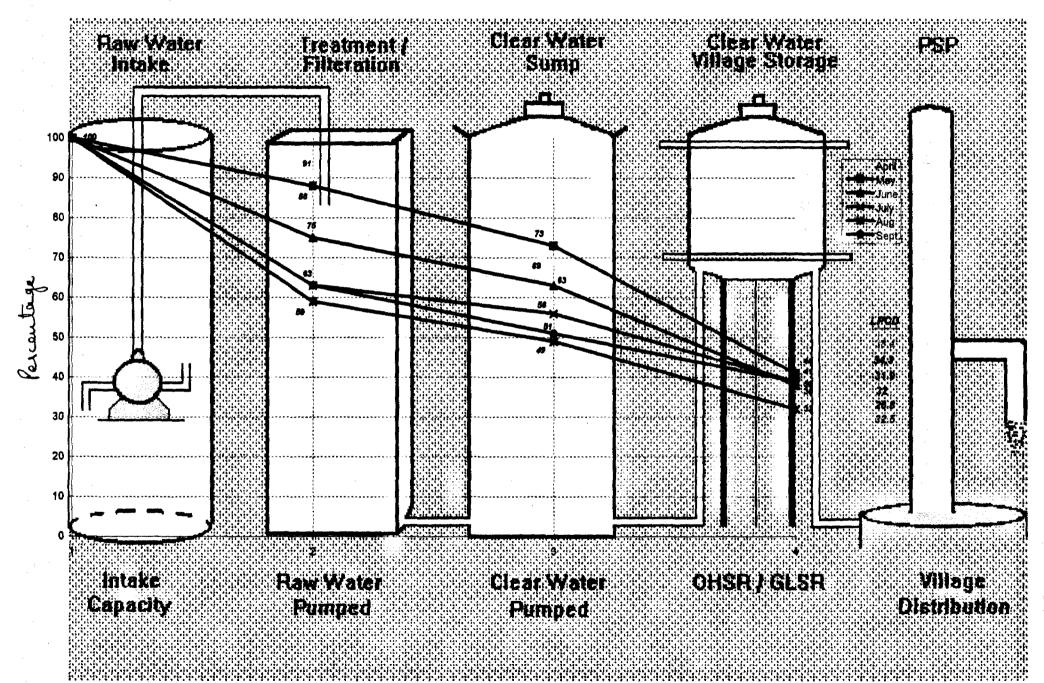
Table - 8

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	75.3	72.7	62.3	51.9	49.3	51.9
Clear Water	57.7	60.9	52.4	46.4	40.9	42.5
Vill. Supply	38.4	34.3	31.9	32.0	26.8	32.5

Chinnakothiliki CPWSS capacity utilisation

Table - 9

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Capacity	100%	100%	100%	100%	100%	100%
R/W pumped	91%	88%	75%	63%	59%	63%
C/W pumped	69%	73%	63%	56%	49%	51%
Village Delivery	44%	41%	38%	39%	32%	39%



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For the reporting period LPCD (Raw Water pumped) is varying from 51.9 to 75.3 and LPCD (Clear Water pumped) is varying from 46.4 to 57.7 and the corresponding LPCD (village delivery) is varying from 25.6 to 38.4. At every stage there is decrease in the quantity.

The scheme is functioning between 32% to 44% of its capacity.

Percentage	losses	in	operation	
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Та	ble	-	10
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Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
R/W pumping - C/W pumping	22%	15%	12%	7%	10%	12%
C/W pumping - Vill. supply	25%	32%	25%	17%	17%	12%

In the design parameters the total losses are projected as 20%, but the actual situation shows a poor performance with losses as high as 45% (22% + 25%) in Apr 96.

Manchala

	Manchala	LPCD	trend
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Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	31.0	43.5	35.0	36.2	39.1	29.0
Clear Water	30.0	31.7	29.0	34.5	34.9	35.0
Vill. Supply	23.0	16.0	20.0	21.7	20.9	19.0

Manchala CPWSS capacity utilisation

Table - 12

Table - 11

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Capacity	100%	100%	100%	100%	100%	100%
R/W pumped	67%	94%	75%	78%	84%	63%
C/W pumped	64%	68%	63%	74%	75%	75%
Village Delivery	49%	34%	43%	47%	45%	41%

For the reporting period LPCD (R/W pumped) is varying from 43.5 to 31 and LPCD (C/W pumped) is varying from 31.7 to 30 and the corresponding LPCD (village delivery) is varying from 16 to 23. At every stage there is decrease in the quantity due to operation of the system, leakages at plant, transmission losses & testing of transmission lines. May be pumping capacities of the motors need to be verified to know wether they are functioning up to it's rated capacities or not.

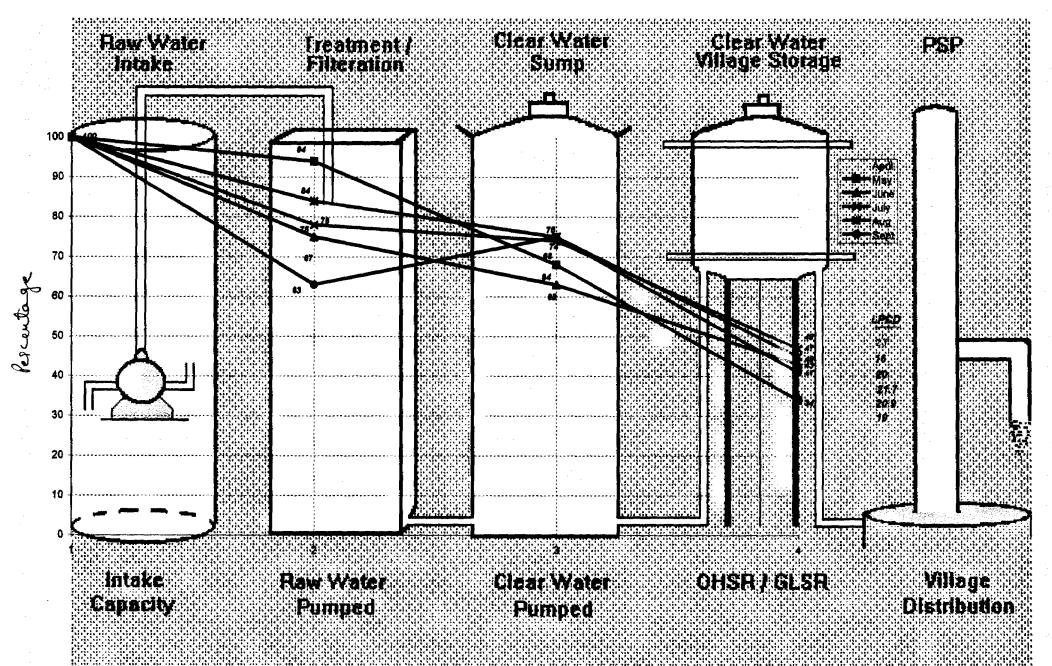
The scheme is functioning between 34% to 49% of its capacity.

In the villages of these two schemes, NGO HERSELF is working hence the data of village level delivery are available.

Table - 13

Tercemage 103363 I	n operation	<u> </u>				14010 - 15
Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
R/W pumping - C/W pumping	3%	26%	12%	4%	9%	(-12%)
C/W pumping - Vill. supply	15%	34%	20%	27%	30%	34%

In this case also irregular pattern in losses can be noticed and -12% losses (is in fact 12% gain in treatment) cannot be explained logically, as it seems impossible to pump more clear water than raw water . PRED is requested to look into the reliability of data.



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Hanawal

Hanawal LPCD trend

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	NA	NA	NA	NA	NA	NA
Clear Water	11.3	14.5	10.0	8.0	33.1	7.6
Vill. Supply	NA	NA	NA	NA	NA	NA .

Hanawal CPWSS capacity utilisation

Table - 15

Table - 14

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Capacity	100%	100%	100%	100%	100%	100%
R/W pumped	NA	NA	NA	NA	NA	NA
C/W pumped	14%	18%	12%	10%	41%	9%
Village Delivery	NA	NA	NA	NA	NA	NA

In the villages of this scheme, there is no NGO involvement, hence village level data are not available.

For the reporting period LPCD (R/W pumped) information has not been made available. The trajectory of the scheme is from the Tungabhadra LLC (lower level canal), in to a summer storage tank by means of pumping as well as gravity. Pumping data have not been recorded. As the monitoring system developed earlier describes raw water production in terms of pumping.

As there was no prescription for taking the raw water, taken through gravity into consideration, PRED local staff have decided to abandon the entire monitoring effort altogether.

NAP Office would like to encourage the Engineers at Hanawal to apply their engineering background and genius and their creativity to come up with their own ways to assess the volume of raw water produced.

While NAP Office and PRED head Office can and will help in developing ideas and models and guidelines, these are provided as examples and not as prescriptions that are rigid and to be followed to the letter.

The attitude taken on water monitoring in Hanawal can so far only be interpreted as a lack of interest and hardly constructive.

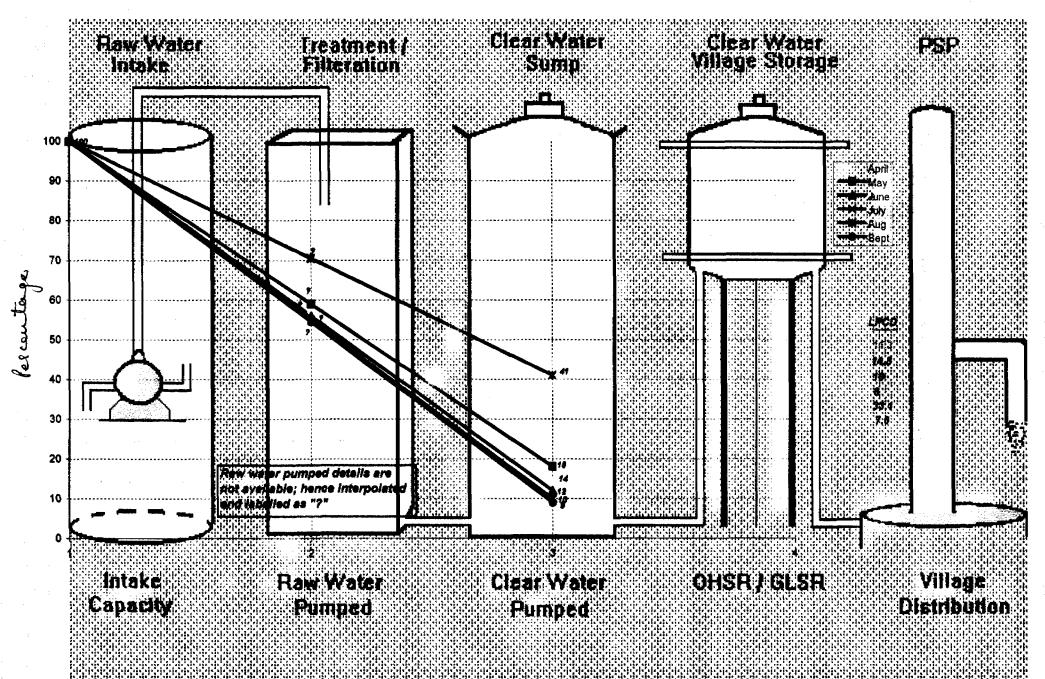
NAPO suggests that the hours of operating the valve for the gravity pipe are recorded and quantity will be calculated on the basis of the dimension of the pipe.

The same system should be applied in the recording or Raw Water supply from the Summer storage tank to the filter, which is also done by pumping and by gravity.

The LPCD (Clear Water pumped) is varying from 7.6 to 33.1. The scheme is functioning between 9% to 41% of its capacity. The reason for such a low performance during the months April, May and June lies in the fact that the SST, which is meant to store the water to bridge the summer time, could not be filled in time from LLC of Tungabhadra project, before the canal closure on 15 March 1996.

The LPCD for the month of August is reasonable at 33.1, but for September the LPCD drops to 7.7. Similar to August, water was provided almost daily, but the number of hours of clear water pumping dropped from 10 hrs per day in August to some two to three hours of clear water pumping in September.

The reasons for this drop should be investigated.



3.1.3 MEDAK

CPWSS Ibrahimpur

Ibrahimpur LPCD trend

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	48.2	44.7	47.4	80.1	81.0	51.9
Clear Water	40.2	36.8	39.5	61.2	66.5	43.8

Ibrahimpur CPWSS capacity utilisation

Table - 17

Table - 16

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Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Capacity	100%	100%	100%	100%	100%	100%
R/W pumped	49%	45%	48%	81%	82%	52%
C/W pumped	41%	37%	40%	62%	67%	44%
Village Deliver y	NA	NA	NA	NA	NA	NA

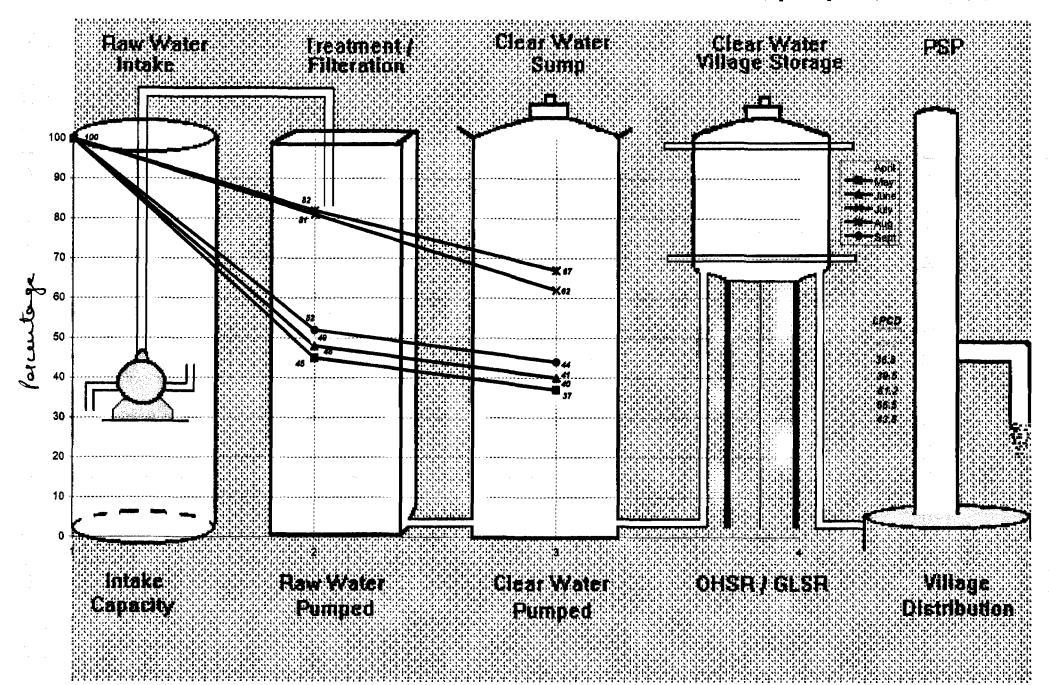
For the reporting period LPCD (R/W pumped) is varying from 44.7 to 81 and LPCD (C/W pumped) is varying from 36.8 to 66.5.

The scheme is functioning between 37% to 67% of its capacity (Clear Water pumped to full capacity) .

Percentage losses in operation

Percentage losses in operation								
Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96		
R/W pumping - C/W pumping	8%	8%	8%	19%	15%	8%		

In July 96 and August 96 losses percentage has risen is it related to the volume treated ?



Karasguthy

Karasguthy LPCD trend

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	45.0	53.6	45.5	18.5	10.1	40.9
Clear Water	48.8	55.4	47.6	21.4	9.4	48.2

Karasguthy CPWSS capacity utilisation Table - 20

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Capacity	100%	100%	100%	100%	100%	100%
R/W pumped	64%	74%	64%	27%	14%	58%
C/W pumped	69%	76%	68%	29%	13%	68%
Village Delivery	NA	NA	NA	NA	NA	NA

For the reporting period LPCD (R/W pumped) is varying from 10.1 to 45 and LPCD (C/W pumped) is varying from 9.4 to 48.8. This figure is very low given the fact that there is water available in the river(back water) and generators are available in the scheme.

For the months April, May, June, July and September c/w pumped is more than r/w pumped. It is technically not feasible to have more clear water than raw water and in this case either the pumping capacity or the data on pumping hours provided are not reliable.

The scheme is functioning between 13% to 76% of its capacity (Clear Water pumped to total capacity).

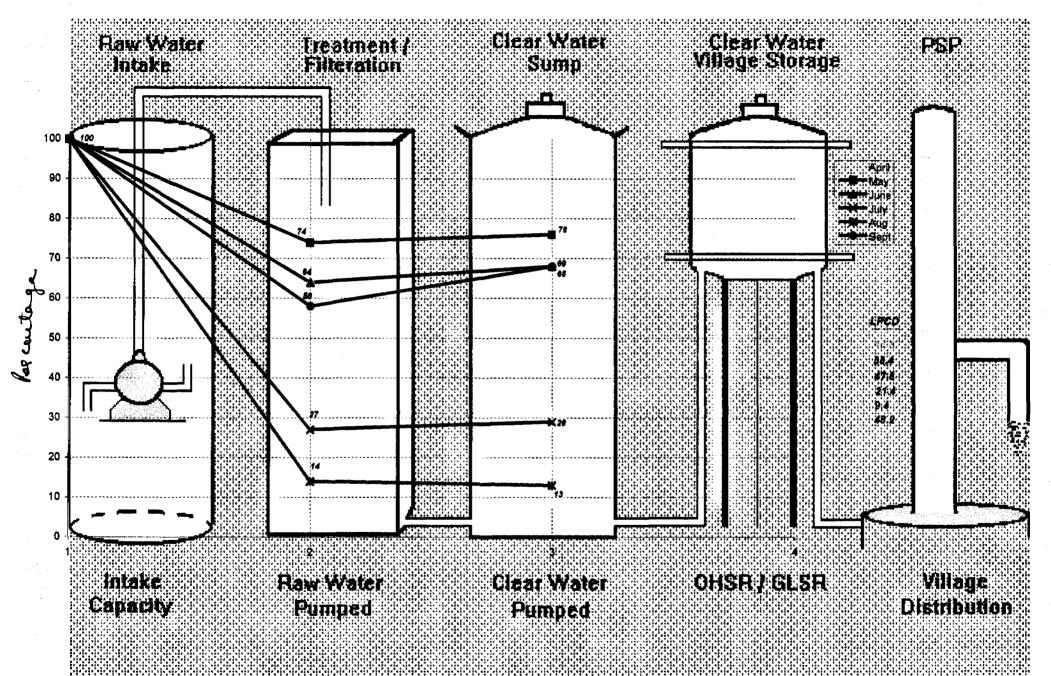
Percentage losses in operation

Table - 21

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
R/W pumping - C/W pumping	-5%	-2%	-4%	-2%	1%	-10%

PRED is requested to look into the reliability of data.

Table - 19



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Borancha CPWSS

Borancha LPCD trend

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	53.9	58.3	39.5	50.7	47.8	63.0
Clear Water	46.9	48.7	31.1	41.1	31.7	51.3

Borancha CPWSS capacity utilisation

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Capacity	100%	100%	100%	100%	100%	100%
R/W pumped	85%	89%	62%	77%	73%	99%
C/W pumped	74%	74%	49%	63%	48%	81%
Village Delivery	NA	NA	NA	NA	NA	NA

For the reporting period LPCD (R/W pumped) is varying from 39.5 to 63 and LPCD (C/W pumped) is varying from 31.1 to 51.3.

The scheme is functioning between 45% to 81% of its capacity.

Percentage losses in operation

Table - 24

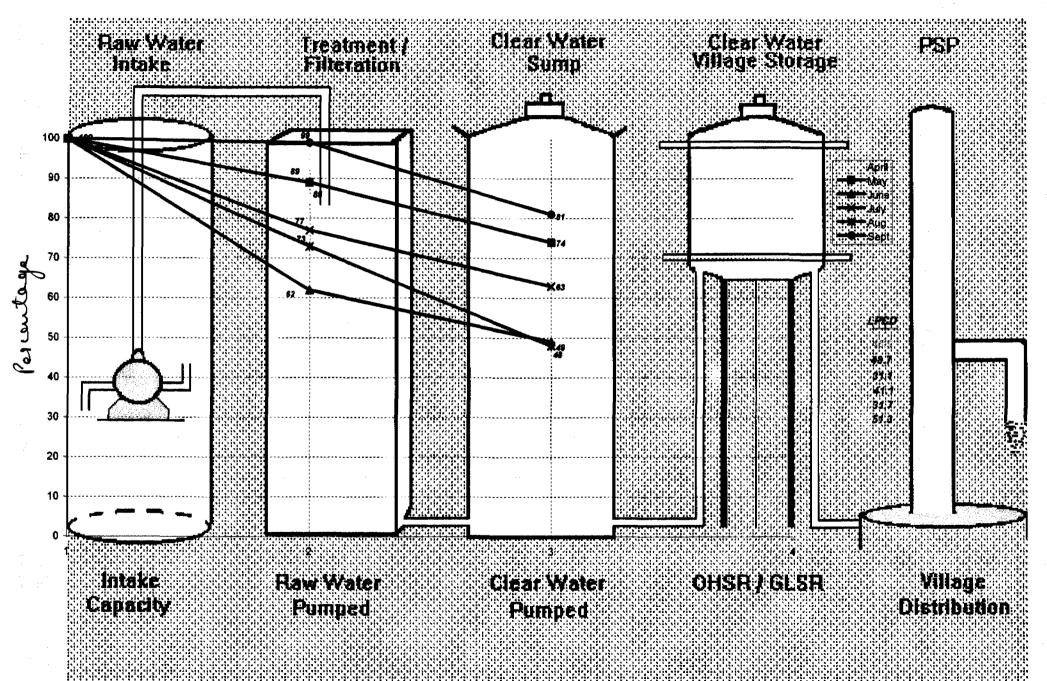
Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
R/W pumping - C/W pumping	11%	15%	13%	14%	25%	18%

In Aug 96 the losses percentage is highest and it could be related to the pipe line (Borancha-Sindhole) breakage.

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Table - 23

Table - 22



MARI Project area in CPWSS Borancha :

Information on the level of RWS actually received at village level is available for 10 villages, out of the total of 35 villages of the Borancha CPWSS, where NGO MARI is working.

Analysing this information along with aggregate pumping data of the Borancha CPWSS, LPCD details & capacity utilisation trend is presented below.

MARI Project Area LPCD trend (Borancha CPWSS)								
Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96		
Raw Water	53.9	58.3	39.5	50.7	47.8	63.0		
Clear Water	46.9	48.7	31.1	41.1	31.7	51.3		
Vill. Supply	13.0	10.3	6.8	7.3	3.1	16.0		

MARI project villages capacity utilisation (Borancha CPWSS)

Table - 26

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96		
Capacity	100%	100%	100%	100%	100%	100%		
R/W pumped	85%	89%	62%	77%	73%	99%		
C/W pumped	74%	74%	49%	63%	48%	81%		
Village Delivery	21%	16%	11%	11%	5%	25%		

Average LPCD varies from 3.1 litre (Aug 96) to 16 litres (September 96) and corresponding capacity utilisation percentages are 5 and 25 for these villages.

Percentage losses in operation

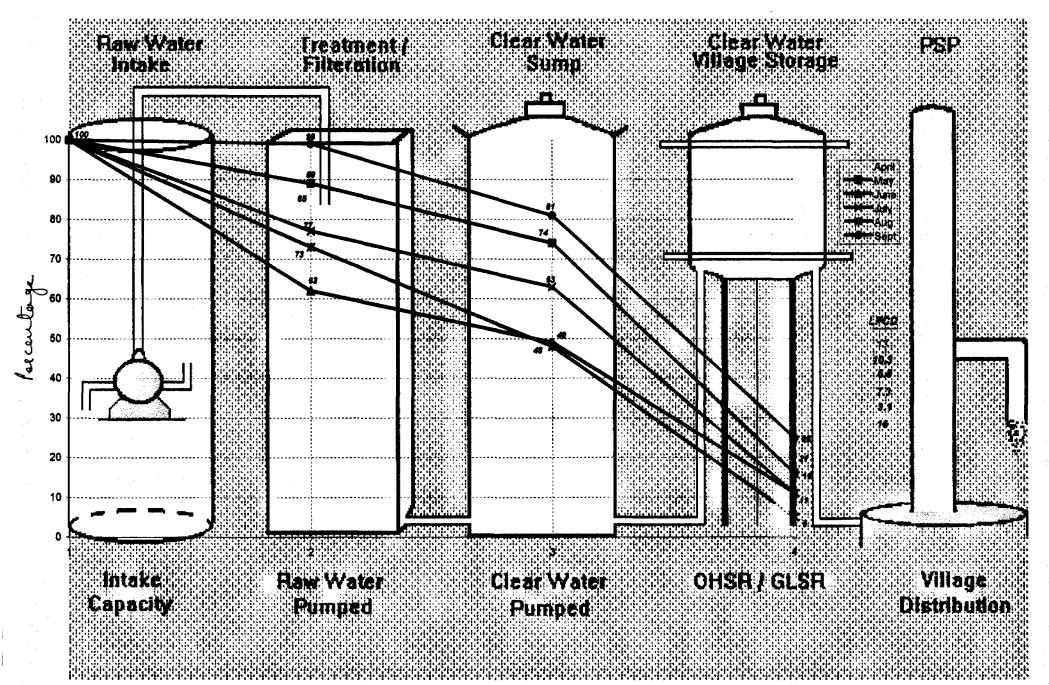
Table - 27

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96	
R/W pumping - C/W pumping	11%	15%	13%	14%	25%	18%	
C/W pumping - Vill Supply	53%	58%	38%	52%	43%	56%	

It was observed that supply to these villages are scheduled to serve alternate days and the gap between c/w water pumped(%) and village supply(%) in table 3.3.12 can be explained by this fact. During the reporting period supply is disrupted by pipe line breakages (Aug 96) & generator failures hence performance level in these villages is very low.

It may be pointed out that the repair of the motor took two weeks, and after re installation the pipeline blew, which took another few weeks to repair.

RWS being a basic requirement PRED staff make look into possibilities to reduce the time taken for repairs.



3.1.4 PRAKASAM

In Prakasam district there are 3 CPWSS and the aggregated pumping data related to all these 3 CPWSS were provided.

NGO ASSIST is working in the 11 villages of project area. But these villages are spread over 2 schemes AB Palem and MV Palem and some of them are only r/w augmentation to individual schemes. Hence that analysis is presented separately.

AB Palem

AB Palem LPCD trend

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	13.9	17.4	17.3	9.5	14.2	13.3
Clear Water	15.6	17.8	13.9	1.7	2.5	14.4

AB Palem CPWSS capacity utilisation

	-					
Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Capacity	100%	100%	100%	100%	100%	100%
R/W pumped	38%	46%	47%	25%	38%	36%
C/W pumped	43%	47%	38%	5%	7%	39%
Village Delivery	NA	NA	NA	NA	NA	NA

For the reporting period LPCD (R/W pumped) is varying from 9.5 to 14.7 and LPCD (C/W pumped) is varying from 1.7 to 2.5.

For the months of April, May and September clear water pumped is more that raw water pumped. It is technically not feasible to have pumped more clear water than raw water and in this case either the pumping capacity or the data on pumping hours are not reliable.

Based on the data provided, the scheme is functioning between 5% to 43% of its capacity. This could be because of lack of water supply through the NS canals, while the "MOP UP" activities towards augmentation of available water supply, which was earlier based on erroneous assumptions of 250 days, have not yet been completed.

Especially in the months of July and August the performance was very low.

Percentage losses in operation

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
R/W pumping - C/W pumping	-5%	-1%	9%	20%	31%	-3%

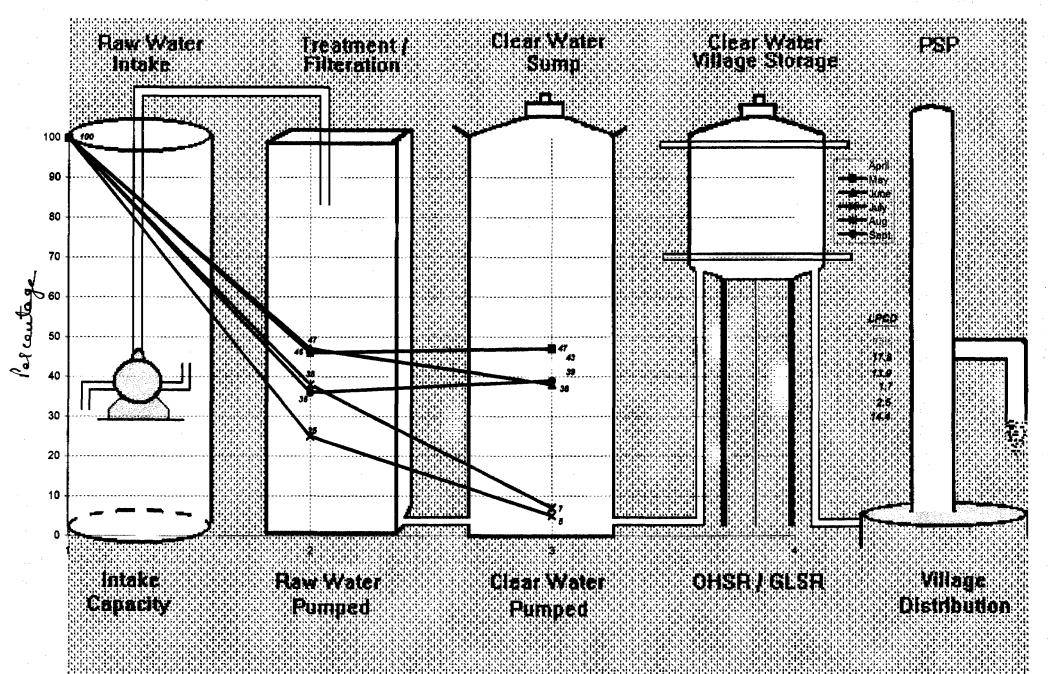
PRED is requested to look into the reliability of data.

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Table - 28

Table - 29

Table - 30



MV Palem CPWSS

MV Palem LPCD trend based on Population estimate of 4474 (PRED pumping data)

		•			Та	ıble - 31
Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	24.8	27.4	27.3	26.2	20.8	22.6
Clear Water	24.4	22.9	22.1	20.8	18.7	18.3

MV Palem CPWSS capacity utilisation

Table - 32

	1 0					
Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Capacity	100%	100%	100%	100%	100%	100%
R/W pumped	38%	40%	41%	38%	30%	34%
C/W pumped	37%	33%	33%	30%	27%	28%
Village Deliv ery	NA	NA	NA	NA	NA	NA

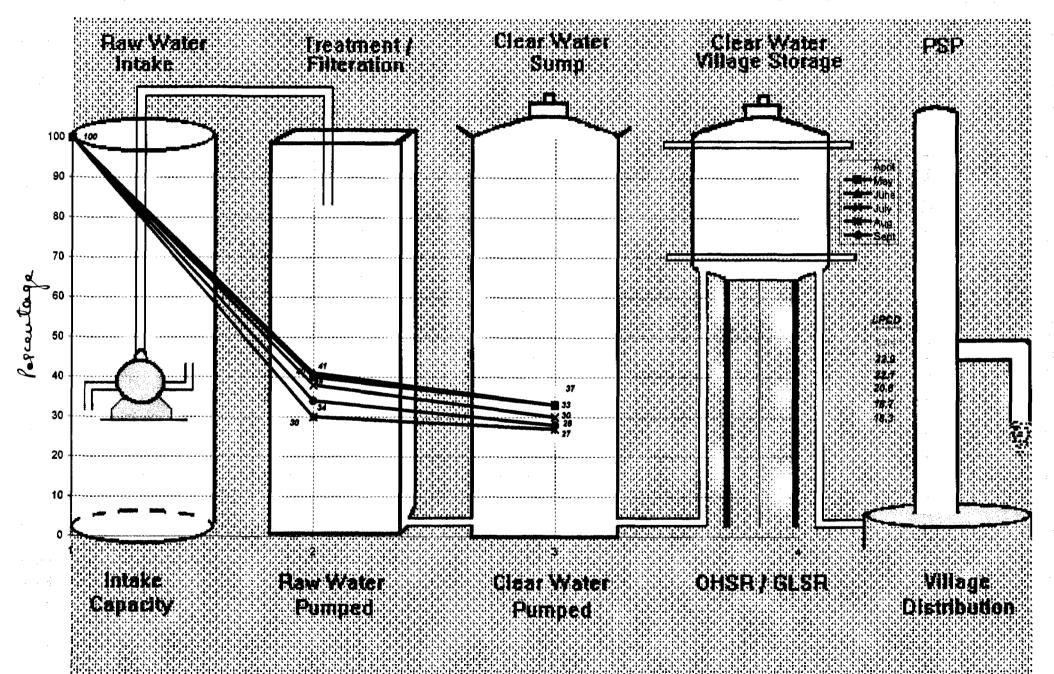
For the reporting period LPCD (R/W pumped) is varying from 20.8 to 27.4 and LPCD (C/W pumped) is varying from 18.7 to 22.9.

The scheme is functioning between 27% to 37% of its capacity. lack of water in NS canal affects this scheme too.

Percentage losses in operation

Table - 33 Month Apr 96 May 96 Jun 96 Jul 96 Aug 96 Sept 96 R/W pumping -1% 7% 8% 8% 3% 6% C/W pumping

Compared to other schemes the loss percentages are much lower.



ASSIST Project area :

NGO ASSIST is working in 4 Villages of MV Palem scheme and for these villages, village level water supply data is available and the analysis of this data along with aggregate pumping data is presented below.

ASSIST Project area LPCD trend (MV Palem CPWSS) based on population figure of 2474 (supplied by NGO) Table - 34

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	44.8	49.6	49.4	47.3	37.6	40.9
Clear Water	44.1	41.4	39.9	37.6	33.8	33.0
Vill. Supply	49	48	49	47	49	49

ASSIST project area capacity utilisation (M V Palem)

Table - 35

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Capacity	100%	100%	100%	100%	100%	100%
R/W pumped	38%	40%	41%	38%	30%	34%
C/W pumped	37%	33%	33%	30%	27%	28%
Village Delivery	41%	41%	41%	41%	41%	41%

In MV Palem villages RWS received is 41% of the capacity, which runs consistently through out the 6 months period, as supply was supplied on all the days of the six months.

Here one factor to be noted is that village level supply figures are higher than both raw water pumped and clear water pumped figures.

NAPO thinks this may be based on erroneous assumptions in the calculation, taking one reservoir capacity water, as supplied every day, which could be wrong as the reservoir may not be fully filled daily.

Another variation to be noted is in the population figures; the pumping data states the total population covered is 4474 where as NGO gives a figure of 2474 (which matches with the inventory information).

Analysis is made by considering both the population figures and presented separately.

Information is available for 6 villages of AB Palem which are raw water augmentation villages and for these six villages even though average LPCD details are worked out for the reporting period, it is not useful to give the capacity utilisation trend as the corresponding capacity, raw water pumped and clear water pumped details are not there.

Half-yearly Progress Report April - September 1996

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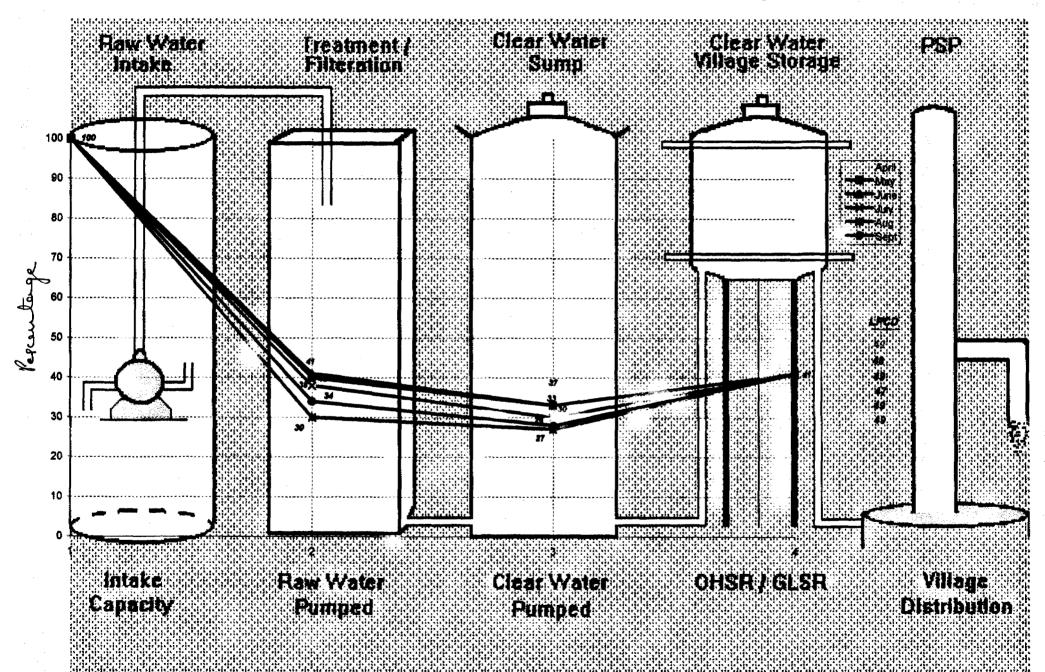
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Percentage losses ir	operation	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·			
Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
R/W pumping - C/W pumping	1%	7%	8%	8%	3%	6%
C/W pumping - Vill. supply	-4%	-8%	-8%	-11%	-14%	-13%

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The assumption of one filling of reservoir may contribute to negative losses in village supply.



Cherukuru

Cherukuru LPCD trend

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
Raw Water	17.4	7.5	23.2	18.2	26.7	24.3
Clear Water	24.9	24.2	17.5	20.1	23.9	22.8

Cherukuru CPWSS capacity utilisation

Table - 37

Table - 36

Cherukuru Cr W	cherukuru er w55 capacity utilisation							
Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96		
Capacity	100%	100%	100%	100%	100%	100%		
R/W pumped	35%	15%	47%	36%	52%	49%		
C/W pumped	51%	48%	35%	39%	47%	46%		
Village Delivery	NA	NA	NA	NA	NA	NA		

For the reporting period LPCD (R/W pumped) is varying from 7.5 to 26.7 and LPCD (C/W pumped) is varying from 24.2 to 23.9.

In the months of April, May, June & July clear water is more than raw water pumped. It is technically not feasible to have more clear water than raw water and in this case either the pumping capacity or the pumping hours data is not reliable.

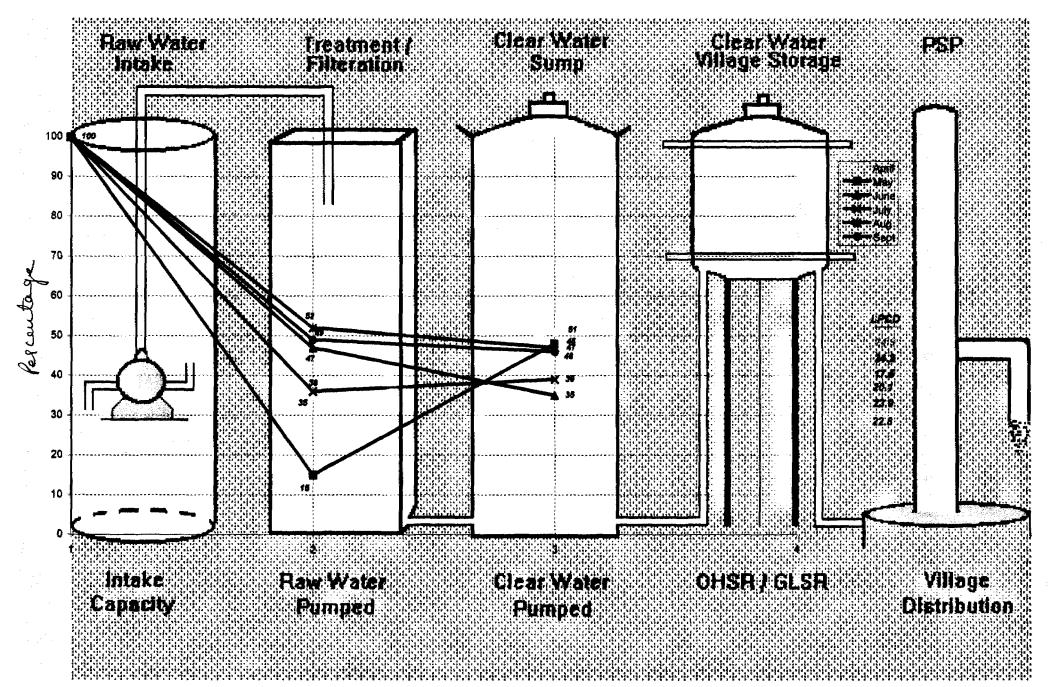
The scheme is functioning between 47% to 35% of its capacity.

Percentage	losses	in	operation
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Table - 38

Month	Apr 96	May 96	Jun 96	Jul 96	Aug 96	Sept 96
R/W pumping - C/W pumping	-16%	-33%	12%	-3%	5%	3%

PRED is requested to look into the reliability of data.



SNIRD project area :

Under NAP programme NGO SNIRD is operating in 26 villages of Chandavaram CPWSS in Prakasam district and this scheme belongs to AP I phase. Through this NGO village level water supply information is gathered but, for this scheme aggregate pumping data is not available.

Hence no of days delivery per month and ALPCD for month per village is presented in Table... and corresponding graphs are also presented which illustrate that

- * In Anantavaram and Khambampadu villages there is no water supply at all.
- * West Gangavaram, Veerepalli, Vaddipadu and Sangapuram supply is very erratic.
- * Many villages such as Donakonda, Indlacheruvu, G Donakonda, Aravellapadu, Polepalli have alternate days of supply.
- Chinagudipadu is have disproportionately big GLSR hence higher LPCD (varying between 40.6 to 86.8)
- * LPCD for many villages (around 20) is less than 20 (except NNpalem for the months of 4/96, 7/96 and 9/96 and Tummedalapadu for 4/96).

ANALYSIS WATER SUPPLY FORMATS NGO : SNIRD

*** PROJECT : CHANDAVARAM (PRAKASHAM) AP I

MONITORED BY : NAPO

DATA, SOURCE : VILLAGE COMMITTEES THROUGH NGO

No	VILLAGE	4/96	4/96	5/ 96	5/ 96	6/96	6/96	7/96	7/96	8/96	8/96	9/96	9/96
		DAYS	ALPCD	DAYS	ALPCD	DAYS	ALPCD	DAYS	ALPCD	DAYS	ALPCD	DAYS	ALPCD
	Donakonda	15.0	5.6	16.0	5.8	14.0	5.3	15.0	5.4	14.0	5.1	15.0	5.6
2	VVPuram	15.0	9.4	16.0	9.7	14,0	8.8	9.0	5.4	12.0	7.3	8.0	5.0
3	Indlacheruvu	12.0	11.4	10.0	9.2	11.0	10.5	7.0	6.5	4.0	3.7	18.0	17.1
4	W Gangavaram	9,0	*	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0
5	NNPalem	25.0	27.8	13.0	14.0	11.0	12.2	26.0	28.0	7.0	7.5	26,0	28.9
6	G donakonda	12.0	16.0	8.0	10,3	7.0	9,3	0.0	0.0	0.0	0.0	3.0	4.0
7	Badapuram	16.0	*	15.0	*	12.0	*	13.0	*	13.0	*	18.0	*
8	Aravellapadu	13.0	8.7	12.0	7.7	7.0	4,7	10.0	6.5	12,0	7.7	15.0	10.0
9	Thummedalapadu	26.0	27.1	12.0	12.1	6.0	6.3	8.0	8.1	8.0	8.1	15.0	15.6
10	Gangadevipalli	25.0	18.5	14.0	10.0	1.0	0.7	4.0	2.9	8.0	5.7	12.0	8.9
11	Chinagudipadu	22.0	76.4	13.0	43,7	20,0	69,4	24.0	80.6	12.0	40.3	25.0	86.8
12	Veerepalli	3.0	2.3	2,0	1.5	1.0	0.8	0.0	0.0	0.0	0.0	16,0	12.5
13	Vaddipadu	5.0	11.9	2.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	11.0	26.2
14	Sangapuram	1.0	2.1	2.0	4,0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	20.8
15	Chandavarm	15.0	10.5	23.0	15.6	18.0	12.6	27.0	18.3	22.0	15.0	28.0	19.7
16	Lakshmipuram	26.0	11.3	31.0	13.0	16.0	6.9	23.0	9.7	17.0	7.1	30.0	13.0
17	Kallur	28.0	13,3	19.0	8.8	11.0	5.2	20.0	9.2	3.0	1.4	27.0	12.9
18	Polepalli	15.0	7.1	26.0	12.0	16.0	7.6	21.0	9.7	24.0	11.1	28.0	13.3
19	Kandulavaripalli	15.0	*	26.0	*	11.0	*	21.0	*	22.0	*	28.0	*
20	West Kasipuram	30.0	17.9	25.0	14.4	15.0	8.9	22.0	12.7	16. 0	9.2	30.0	17.9
21	Rudra Samudram	20.0	18.9	13.0	11.9	9.0	8.5	13.0	11.9	10.0	9.1	21,0	19.8
22	Manginipudi	10.0	8.3	0.0	0.0	17.0	14.2	26.0	21.0	3.0	2.4	26.0	21.7
23	Kocherlakota	16.0	16.0	11.0	10.6	5.0	5.0	13,3	12.6	5.0	4.8	16.0	16.0
24	Ramapuram	18.0	14.6	18.0	14.2	17.0	13.8	24.0	18.9	0.0	0.0	25.0	20.3
25	Anantavaram	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	Khambampadu	0,0	0.0	0.0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	0.0	0.0

ALPCD is average LPCD for the month based on no of days supplied

Anantavaram and Khambampadu don't recieve water supply

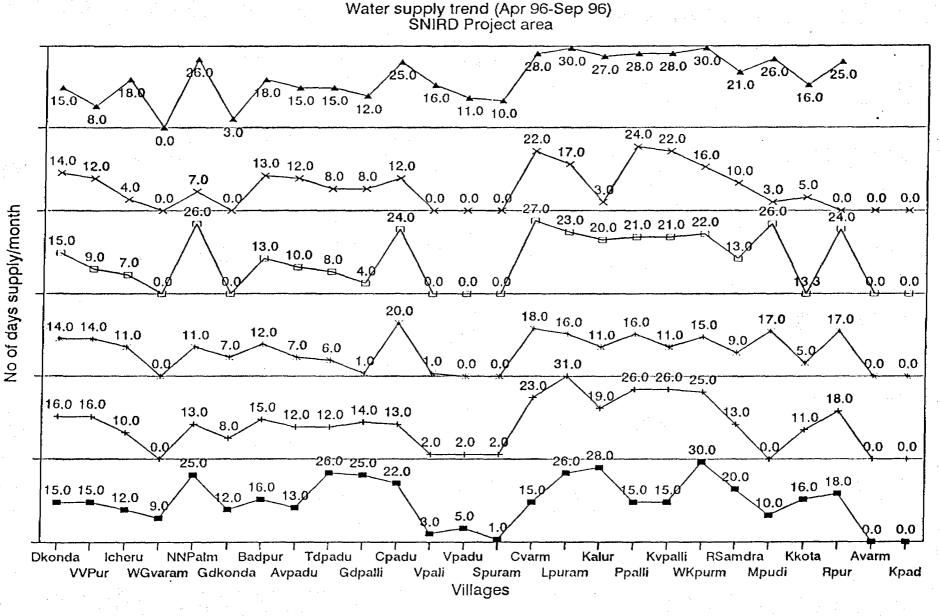
West gangavaram is also a problem village

Chinagudipadu is having a dispoportionately big GLSR hence more supply.

Apr 96 - Aug 96 supply to Veerepalli, Vaddipadu and Sangapuram was very erratic.

Badapuram & Kandulavaripalli information is not fully available

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-	📕 - Apr 96	- − May 96	-) / June 96
-	🕀 July 96	→ Aug 96	- 1 Sep 96

3.2 SUMMARY OF WATER MONITORING and the need for PRED to introduce the system in AP II projects.

Table 39 provides average utilization per scheme, regarding Clear Water pumping as percentage of the capacity of the scheme.

Where ever known the same is provided for the % of capacity received at village level

	s di sui		· · · ·	·	Table - 39
Scheme	Clear Water		Clear Water at Village		Remarks
	LPCD	% Capacity	LPCD	% Capacity	
Mahabubnagar Chinnamaroor	30	35.8 %	NA	NA	
Kurnool Chinnakothiliki Manchala Hanawal	50 32 14	60 % 69 % 17 %	32.6 20 NA	40 % 43 % NA	
Medak Ibrahimpur Karasgutty Borancha	48 38 42	49 % 54 % 65 %	NA NA 9.4	NA NA 15% In MARI villages	C/W > R/W
Prakasam AB Palem MV Palem	11 21	29 % 41 %	NA 48.5	NA 41 % in ASSIST villages	C/W > R/W full filling of reservoir questionable
Cherukuru	22	43 %	NA		C/W > R/W

A rough and average assessment indicates that the utilization of the capacity for the production of Clear Water for distribution in the AP II schemes stands at about 50 % of the capacity.

The indications of the volume of Clear Water received in relation to the capacity of the schemes, at villages, for which we have the information available, seems to be 20 - 25 % lower.

The % utilization of the capacity, however should not be confused with the LPCD, as schemes have been designed for ultimate design parameters, which are much higher.

Summarizing the chapter of Water monitoring, it seems clear that many improvements on the monitoring system can still be made.

PRED may be well advised to conduct internal workshops to refresh their staffs memory on the methodology of compiling the required data and on the usefulness of the exercise towards recording and improving the level of functioning of the schemes.

On the analysis part this first effort provides indications of the potential utility of the system, which once a routine exercise, will provide access to factual information per month; showing breakdowns

and inefficiencies at major points in the schemes, as well as providing the actual volumes delivered, and per year; where the recordings will indicate the performance throughout the year, allowing a comparison through the dry and wet seasons as well as a comparison over the years.

In spite of the imperfections of the monitoring system at this early stage, all indications have it that the schemes are producing way below design capacity, and the level of functioning and losses, has to be urgently addressed.

As discussed before NAPO would like to encourage PRED to review the monitoring system for its internal purpose, (including ways and means to get recordings of received RWS at village level), and to introduce the system throughout the NAP II programme.

The first and most obvious rationale for the speedy introduction would be to monitor the present level of RWS delivery in the AP II projects, towards improvements of the level of functioning of the completed schemes and to improve O&M on these schemes.

SANITATION 4.

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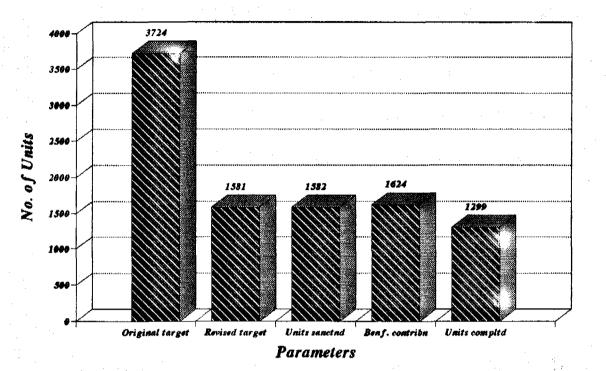
CUMULATIVE STATEMENT SHOWING THE FINANCIAL AND PHYSICAL PROGRESS REPORT ON SANITATION IN AP-I & AP-II OF PRAKASAM & GUNTUR DISTRICTS

Original Target	: 372	4 Units Sanctioned	: 1582
Revised Target	: 1581	Beneficiery Contribution	: 1624

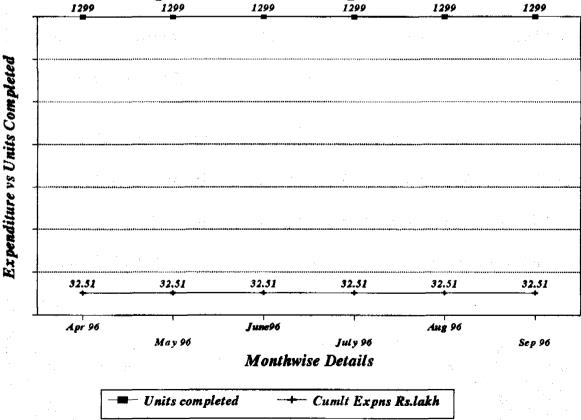
(Rs. in lakhs)

SI.	Month	Units	Work in	Expenses			Cum. Expense	Balance
No.		Completed	Progress				(RNE release+	with PRE
				Previous	Current	Cumulative	GOAP+Intrerst	
				Expense	Expense	Expense	+Ben.contrbn)	
1	Jan 95	1255	128	29.10	0.60	29.70	83.647	53.94
2	Feb 95	1255	129	29.70	0.17	29.87	83.647	53.77
З	Mar 95	1256	148	29.95	0.00	29.95	83.647	53.69
4	Apr 95	1259	152	29.95	0.00	29.95	83.647	53.69
5	May 95	1268	149	29.95	0.03	29.98	83.647	53,66
6	Jun 95	1271	151	29.98	0.86	30.84	83.647	52.80
7	Jul 95	1275	161	30.84	1.01	31.85	83.647	51.79
8	Aug 95	1275	161	31.85	0.00	31.85	83.647	51.79
· 9	Sep 95	1288	155	31.85	0.19	32.04	83.647	51.60
10	Oct 95	1298	155	32.04	0.10	32.14	83.647	51.50
11	Nov 95	1298	155	32.14	0.00	32.14	83.647	51.50
12	Dec 95	1298	155	32.14	0.00	32.14	83.647	51.50
13	Jan 96	1298	155	32.14	0.00	32.14	83.647	51.50
14	Apr 96	1299	144	32.14	0.37	32.51	84.397	51.88
15	May 96	1299	144	32.51	0.00	32.51	84.397	51.88
16	June 96	1299	144	32.51	0.00	32.51	84.397	51.88
17	July 96	1299	144	32.51	0.00	32.51	84.397	51.88
18	Aug 96	1299	144	32.51	0.00	32.51	84.397	51.88
19	Sep 96	1299	144	32.51	0.00	32.51	84.397	51.88





Progress Trend till September 1996



4.1 Project Clean Village

The pilot project "Clean Village", starting 1993 was targeted for some 3500 latrines in 18 villages in Prakasam and Gander.

Targets were later reduced to 1581 latrines.

The project was expected to be implemented within 12 months.

Three year later the progress stands at 82 % physical completion of the revised targets and at RS. 32.51 lakhs (38.5 %) of the advanced fund of Rs. 84.397 lakhs.

The progress reported during this period consists of 1 latrine, and Rs.0.37 lakhs (on works in progress?)

While good progress was earlier achieved in 1996, on drafting an alternative approach to sanitation for the AP II projects, the efforts seem to have fizzled out in the course of the year.

In view of the present level of completion of the AP II RWS projects, it may not be advisable to revive the issue, as an alternative project on sanitation would not fit the completion schedules for the AP II projects

NAPO would like to reiterate its interest in reviewing the possible future approaches to sanitation with RNE and the PRED, which in our view might concentrate on hygiene promotion and environmental aspects of sanitation rather than on the construction of individual household latrines.

5 COMMUNITY PARTICIPATION AND INVOLVEMENT OF NGOS IN AP II

5.1 Involvement of NGOs Community Participation

Introduction:

Community Participation continues to be one of the important components in the RWS and Sanitation programme in AP II. The involvement of the NGOs to set up water committees has been a major component of the RWS programme. The NGO involvement has been restricted to 47 villages in 2 Districts, covered by three NGOs; MARI, ASSIST and SNIRD.

The NGO ASSIST is predominantly involved with the hardware component in sanitation, with a focus on construction of latrines and hygiene promotion. SNIRD and MARI have been working in the areas of enlisting community support and responsibility in the RWS and Sanitation programme.

HERSELF though completed its contractual agreement with the RNE continues skeletal work mainly filling in the water monitoring formats and an occasional VAC meeting in the same 20 villages with the organisations own interest, support and financial commitment.

The Social Sector in NAPO saw the need for a change in the approach and strategy in enlisting community support. The better understanding of the field resulted in giving a direction to the NGOs involved in the programme. The need to be able to measure the inputs visa vis outputs was realised. This resulted in the social sector having a specific action plan.

The first in the series was defining the field visits. For NAPO it was referred as issue based intervention. This was followed by NAPO organising two workshops for the NGO partners. The period also witnessed the introduction of the NGO specific monitoring and impact indicators and a quarterly reporting monitoring format in addition to the regular monitoring and support services.

5.2 Workshops

NAPO had organised a strategic workshop for the NGOs in May 1995. A decision was taken that similar thematic workshops would be organised. The fact that the NGOs need specific inputs to be more effective in their involvement was realised. This was formalised by way of two workshops one on **Review and monitoring** and the other on **Communication methods**. The review and monitoring workshop was planned keeping in mind the phasing out of the project and the need for the NGOs to review targets and introduce the monitoring indicators.

The objectives of the workshop on review and monitoring are:

- i. To review the performance of the previous months of programme implementation
- ii. Strengthen the conceptual understanding and clarity of the project partners regarding the RWS and Sanitation programme
- iii. To explore possibilities for change in approach and strategies to expedite the process of goal reaching.

The objectives of the workshop on communication are:

i. To review and asses the validity of the methods being used hitherto by the NGOs

ii. Expose the participants to other participatory methods of communication.

The Project Directors, Project coordinators and the NAP desk incharge from all the partner NGOs were called for these workshops.

(For further details see Annexure IV)

5.3 Field Visits:

Field visits were planned to ensure that each NGO was visited on an average for 5 days in a month.

The purpose of the visit was broadly defined as monitoring and support services. However, each visit was further defined and a checklist prepared incorporating the requests from each NGO and the issue to be addressed in the present quarter.

The field visits included visits to the target villages, discussion with the village based organisations and with the community at large - Clarifying and reiterating the purpose and the goal of the programme. Visits also witnessed the activities undertaken by the NGO and observed / participated in their internal training programmes, either as co-trainers or as facilitators. The field visits were scheduled to streamline the NGO activities.

Discussions were held with the GP representatives and the village leaders. Efforts were made to meet with the field Engineers of the PRED and give feedback.

The field visits often concluded with a staff meeting at the NGO level where the NGO action plan for the previous quarter was reviewed and new targets set. Monitoring also included the physical and financial monitoring.

5.4 Monitoring Indicators/Impact indications

The social component often has the danger of being termed as a process and hence becoming difficult to monitor or measure. At NAPO, the need to build accountability was strongly felt and this got translated into framing indicators.

The concept though not new was not put into practice by the NGOs. It was during the review and monitoring workshop that the need to recapitulate preparing the indicators was floated and the NGOs were asked to identify project specific indicators.

Once the NGOs sent in the list of indicators the same was taken back to the NGO and in a staff meeting finalised. Each NGO was requested to specify 15-20 indicators which would help them visualise the results expected. The indicators in turn were broken down into actions, tasks and person responsible. The indicators translated into the vernacular were used in the training programmes organised for VACs / WATSAN committees.

It has been encouraging to observe that these indicators are being used regularly by the NGOs to monitor their activities.

Reporting is rather a weak area for the NGOs. At the NGO level each NGO has its own internal system of reporting. The reporting is by the cluster organisers and the coordinators which ultimately gets incorporated into the main report of the chief Project functionary.

Often in finalising the report a number of issues get either missed out or side tracked. However, to help the NGO monitor the progress of activities internally and to keep a track of targets and achievements NAPO introduced a quarterly progress monitoring format. The format was discussed with each NGO and finalised. The same was translated by the NGO into the vernacular and used.

This is the first quarter of the format being introduced and the results / outcome are yet to be assessed.

5.6 NAPOs Support Services

NAPO continues to reach out to the NGOs as and when requested by them. The major areas of support to the NGOs have been in assisting them in the preparation of action plans and setting of realistic targets, preparation of training modules, staff trainings, preparation of formats both monitoring and impact, staff issues and other related issues.

NAPO and the NGOs have a positive working relationship and the NGOs make use of the opportunity to contact NAPO and clarify issues as required.

5.7 Gender

Gender equity issues are addressed during all the visits / meetings and interactions with the NGOs. These are specific interventions to push the gender issues.

Care is taken to ensure that the idea gets translated into having equal number of women if not more on the water committees, ensuring that these women are allowed to hold responsible positions and get the cooperation from all sectors.

However, it is easier said than done as culturally built up diffidence still creates contraints in the arena for women to take the lead. Interesting though, is the factor that the same women who are vocal and take initiative in their own women's groups do hesitate in a combined group. Appreciating the sensitivity of the issue NAPO is making all efforts to a balanced approach.

(The Matrix and graph are enclosed for reference)

5.8 Strategies for withdrawal and sustainability

The need for addressing sustainability has been emphasised at all possible avenues with the NGOs. Sustainability, not as an after thought, but as part of everyday activity to build the confidence, capacity and capability of the community is being emphasised. Sustainability is being defined as the community being able to take care of the maintenance and upkeep of the water systems. Some of the efforts in this direction are allowing the water committees to conduct and record meetings by themselves with a minimum or no involvement of the NGO staff, collecting contributions and accounting for the contributions collected, community members taking responsibility by themselves and immediately attending to the problems of abuse of water, disruption in water supply or leakages and breakages(minor repairs and breakages).

It is encouraging to note that the people have started realising the importance of piped water and the need to economise on its use and maintenance.

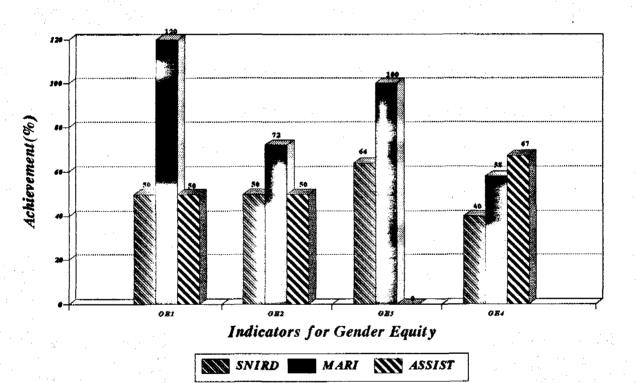
The Water Monitoring Formats are being used regularly and people have realised the importance of these formats. In fact it is interesting to note that these formats are often being used for redressal.

GENDER EQUITY

CODE	INDICATOR	ACHIEVEMENT(%)				
		SNIRD	MARI	ASSIST		
GE1	Avg. Women attendance at Awareness Campaigns	50	120	50		
GE2	Avg. women attendance at VAC meetings	50	72	50		
GE3	Avg. women attendance at VAC training	64	100	0		
GE4	Avg. women membership in VAC	40	58	67		

Note: Information is based on Quarterly Project Monitoring Framework

GENDER EQUITY September 1996



5.9 Expansion and Extension of NGOs

In relation to the need to extend the technical programme for AP II, because of delays in completion, it has been eleborately discussed between NAPO, PRED and RNE to extend the community participation inputs likewise.

In view of the discrepancy between the level of physical completion and the level of operation of the technical components, i.e. actually delivering drinking water, it was felt that the involvement of the community monitoring of RWS would be helpful in efforts to step up the attention for the need to deliver sufficient amounts of water.

Plans to expand the involvement of community participation, with the asistance of NGO's, to a fuller level of coverage of the vilages in the AP II projects, were conceptualized and were in principle agreed upon by PRED and RNE.

Due to constraints related to administrative changes in the Netherlands Development Assistance programme, such expansions will be postponed till the can be incorporated in the next PRED proposal, for the phase out of AP II / phase in AP III.

Meanwhile the extension of NGO's programmes will be covered through existing balances in the the budget and / or re-appropriations within the NAP Office Budget, until March 1997.

Herself had expressed the desire to work in all the 64 villages under the Kurnool scheme to form the water committees. NAPO had undertaken an internal assessment to see the administrative and organisational capabilities of the organisation for the task. The results of the study were positive and NAPO recommended that Herself could take up activities in the year.

Based on the willingness of the organisation and the recommendations of NAPO the proposal was submitted to the Governemnt of Andhra Pradesh for approval and forwarding to RNE. However, there has been undue delays.

The water committees are being kept alive by skeletal staff being supported by the organisation from their own finances.

The Water Monitoring Formats are being sent regularly to NAPO. A recent visit by NAPO to Herself villages got a first hand impression which is quite positive.

It was observed that in the majority of the villages, the village based organisations have been taking responsibility of the assets. This could be due to one or two village leaders who are taking a keen interest, added to the fact that Herself staff do visit and keep contact with the villagers.

Herself is apprehensive that they may not be able to continue to support the staff for long due to resource constraints. The other aspect is that since the staff are only being paid allowances, on getting better offers they are leaving the job. NAPO is apprehensive if the sanction of the next phase gets further delayed there may be need to go in for totally new staff which may be detrimental to the pace of achievement.

MARI agreement with the RNE will come came to an end by October. Mari had problems of liquidity and that has resulted in backlog of activities. As there is a substantial balance in the budget and the need and interest of the organisation to continue activities in the area has promoted the NGO to approach the RNE to consider for extension of activities for one more quarter to match the phase out/phase in period.

The request is also supported by MARIs decision to conduct an internal evaluation and learn from the experiences. This evaluation is proposed to be taken up by December. MARIs proposal after scrutiny will be forwarded to the RNE for further action.

SNIRD proposal for expansion has been pending for the moment subject to the project completion period and the RNE decision to entertain expansion requests in line with the AP II phase out period. SNIRD has been consolidating experiences and strategies for the next phase.

5.10 Community Contribution:

Collecting community contributions to attend to minor repairs has become part of the VAC responsibilities. The leakages and breakages are identified and reported by the YG/MM to the VAC members. The upkeep and maintenance around the PSPs rests with the residents around the PSPs and at the GLSR level the whole village shares the responsibility. The contributions are more issue based and the quantity and quality of work is assessed either by the lineman who in turn is paid the amount to buy the necessary pipes or knobs. The NGOs have also mobilised the matching materials and finances when PRED has admitted lack of funds to attend to repairs.

Efforts are on at the NGO level to systematise the fund collection. However, the fact that there are other sources of drinking water which at times are more reliable hinders the contribution factor. Also the absence of a regularised established body to take responsibility for the funds has slowed the pace of forming a common fund. The idea that the GP can attend to and should attend to the systems which has been an age old practice seems to be having its effect. However, it is encouraging to note that when people are educated about the financial implications and problems of the Government there is a willingness to pay up. This can be further strengthened when the relationships between the PRED and the NGO/Community improve.

5.11 Upkeep and Maintenance

In all the NGOs efforts are on to ensure that the community takes full responsibility for the upkeep and maintenance of the systems. Responsibility sharing is done at the village level by either of the groups viz YG (Youth Group), MM (mahila group) or VAC. The NGOs have ensured that with the necessary trainings imparted, either of the groups immediately attends to the upkeep. Since the women are made responsible for the PSP the responsibility rests with them. The responsibility of the pipelines is with the YG and the storage points with the VAC.

In most of the villages, situation, the lineman and the works inspector are the people who are most powerful and important to make the RWS system run or not.

In fact there are incidences where, due to misunderstandings between the lineman and the community, water is stopped / diverted for weeks on end. No amount of representation has helped solve these situations. Some committees have ensured that these people are on the VACs and they get due attention and respect. The other interesting aspect observed is that when the lineman lives in the village there is better rapport with him.

(Matrix and the graph represents the different aspects of community participation). -

PSP at Govardhanagiri, Mahbubnagar, can it be improved?



Only one small tap on the GLSR and villagers queuing for water

Village woman bought pipe and tap from her own money after pipe broke off the GLSR and made it disfunctional. Operator at Nagulapally refused to cooperate. After discussion MARI, NAPO & PRED EE, the pipe got installed and the operator, who had been notorious in that area, was transferred.

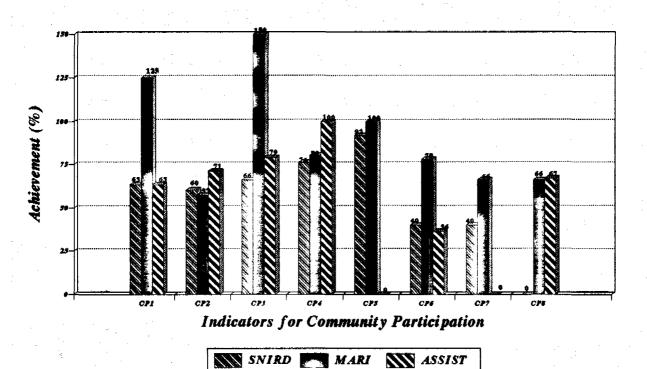
COMMUNITY PARTICIPATION

CODE	INDICATOR	ACH	ACHIEVEMENT(%)					
		SNIRD	MARI	ASSIST				
CP	COMMUNITY PARTICIPATION							
CP1	Avg. attendance at Awareness Campaigns	63	125	63				
CP2	Avg. attendance at VAC meetings	60	57	71				
СРЗ	Avg. attendance at VAC trainings	66	150	79				
CP4	Usage of WMF	76	80	100				
CP5	Usage of Chloroscopes	92	100	0				
CP6	Maintenance of records without support	40	78	36				
	Meeting without facilitator	40	66	0				
CP8	Fund raising for O&M	0	66	67				

Note: Information is based on Quarterly Project Monitoring Framework

COMMUNITY PARTICIPATION September 1996

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5.12 Health and Hygiene promotion

Health and hygiene promotion are the main issues which are addressed in every visit/meeting/training by the NGOs. With education / awareness levels being rather low, efforts to make it a habit formation is something the NGO has been working for.

Efforts in this direction have been : strengthening of the school health clubs, using children and women as health promoters. Speaking to women groups, addressing issues at the family level and the community level. Simple issues like collection, storage and use of water, personal hygiene, domestic hygiene and environmental hygiene are issues addressed. The NGOs have the multi purpose health workers and the PHC Doctors visiting the community members. The community is encouraged to participate in the different Government programmes.

5.13 Interaction with GP's and other Government Departments

In all the villages the NGOs have been making efforts to link up the VACs and the GPs. However, since the Sarpanch and the GPs are political institutions, it rather limits the scoope for continuity and work of the NGOs and often problems of non cooperation from the opposition side crop-up.

The present situation in the majority of the villages however is that of transition and sharing of responsibility where the old Sarpanches who were also local leaders still held responsible for the incomplete works and at the same time are not prepared to give charge to the new Sarpanches. On the other hand the new Sarpanches still hold the old Sarpanches responsible for the incompleted works. The confusion as to who has to take responsibility for the schemes for maintenance is still often debated, as the debate between the GPs and the PRED continues unabated in the absence of the official handing over / willingness to take over the schemes.

5.14 Impact of NGO involvement

In the interaction with the community one could easily assess the increase in the knowledge and awareness levels related to RWS health and hygiene aspects. This increase in knowledge and awareness levels can be measured / observed in the people's behaviour and practices such as;

- the community members having resolved to drink the water from the piped scheme contradictory to the earlier beliefs and practices. Majority of the people have been covering the stored water and using ladles to draw water
- the rise in the awareness levels has resulted in the questioning of the inactive committee members in the water committees and asking for replacements
- increased initiatives to conduct the meetings, record meetings by themselves and also ensure follow up action
- use of Water Monitoring Format as a tool for redressal to the Government.
- collection of contributions from the community and maintenance of the assets.
- control / checking of the abuse of water
- formation of an APEX body at the scheme level to address issues related to the entire scheme.

- initiatives to have a water fund as part of the APEX body by mobilising a membership fee by the members themselves, from the GPs and from community contributions
- plans to give a legal status to the APEX body to take up other issues related to the communities

5.15 **Progress per NGO:**

ASSIST

ASSIST is now in the third contract year with the RNE. ASSIST has been working in the 11 villages predominantly focusing on the latrine construction component.

In this half year period ASSIST has changed its approach and has concentrated on mobilising the community support not only for the latrine component but also in RWS.

With a reappropriation of the budget the community awareness activities were stepped up. The NGO focused on mass awareness campaigns and rallies, intensive house visits, VDS meetings and group meetings.

The thematic trainings for both the staff and the masons involved in the programme further facilitated the momentum of activities.

Addressing specific issues related to the owning of a latrine and linking it up to the personal health and environmental hygiene through the use of cultural media was found be very effective.

ASSIST also used the approach of addressing each non participant by way of a personalised letter followed by house visits.

These efforts resulted in the community paying the prefinance amount and enroling their names(720 families were mobilised and 526 completed) for owning a latrine and also purchasing a smokeless chullah.

The water situation in the first quarter was rather bad. The VDS members however used the WMFs to request the PRED / concerned DE and get the systems rectified to a large extent. The VDS has also become aware of the need to monitor the RWS and also undertake chlorination. Efforts are on to further mobilise the community to take care of the assets. Though there are a few incidences of the villagers taking responsibility to mobilise finances and attend to minor repairs, the process is yet to take on an organised form. ASSIST feels that this can be taken up only when the VDS is strengthened as a full fledged body at the village level. ASSIST realises that work needs to be done in this direction.

ASSIST continues with its village level work related to health and hygiene promotion with special attention to the pre and anti natal care.

ASSIST has been making all efforts to mobilise support of the GPs to take up issues related to RWS and sanitation.

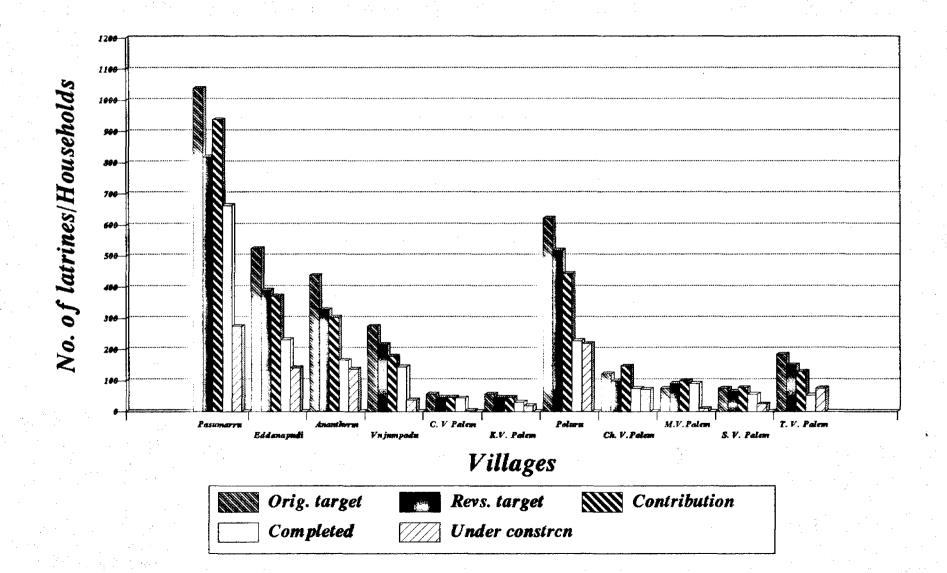
(Table on the status of activities of ASSIST enclosed)

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ASSIST ACTIVITY CHART TILL SEPTEMBER 96

SN	Village	Men	nbership	n VDS	% of	Awarenes	s camps		Latrines planr	ed for	Total HHs	% HHs pa	id contrib	Cum Latri	% constru	icted	Prog.in	Latrines
		Men	Women	Total	women	Planned	Organised	%	3 yrs		paid contri	Original	Revised	constd	Original	Revised	pind perd	Under
	×								Original	Revised	_						Ap-Sep96	constrn
1	Pasumarru	12	1	13	7.7	6	4	66.7	1035	816	935	90,3	114.6	662	64	81.1	248	273
2	Eddanapudi	7	2	9	2 2.2	6	5	83.3	525	390	369	70,3	94.6	230	43.6	59	148	139
3	Ananthavaram	9	2	11	10.2	6	4	66.7	435	326	301	69.2	95.1	165	37.9	50,6	82	136
4	Vinjanampadu	7	2	9	22.2	6	4	66.7	275	215	178	64.7	82.8	142	51.6	66	69	36
5	Chilukurivaripalem	5	2	7	28.6	6	4	66.7	54	45	46	85.2	100.2	43	79.6	95.6	4	3
6	Katarivaripalem	6	1	7	14.3	6	5	83.3	54	45	46	8 5.2	100.2	29	53.7	64.4	28	17
7	Poluru	9	2	11	18.2	6	5	83.3	620	516	443	71.4	85.8	226	36.5	43.8	124	217
8	Chimatavaripalem	8	1	9	11.1	6	5	83.3	120	100	146	121.7	146	75	62.5	75	56	71
9	Munnangivaripalem	6	1	7	14.3	3	3	100	75	89	97	129.3	108.9	88	117.3	98. 9	25	9
10	Syamalavaripalem	6	1	7	14.3	6	5	83.3	75	63	78	104	123.8	56	74.7	88.9	32	22
11	Tanubodivaripalem	7	2	9	22.2	6	5	83.3	182	147	127	69.8	86.4	52	28.6	35.4	30	75
	Total	82	17	99	17.2	63	49	77.8	3450	2752	2766	80.2	100.5	1768	51.2	64.2	846	998

ASSIST ACTIVITY CHART September 96



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SNIRD

SNIRD has been working in the 26 villages under the AP I. The NGO is into its third year of mobilising communities under the RWS scheme.

SNIRD realised that there is the possibility of stagnation in approach. The NGO decided to change the approach and make the committees more effective and functional. In this direction the first step was to reorganise these committees. The next step was to form the APEX committee, with representations from the VACs from all the 26 villages.

SNIRD first undertook the responsibility of educating the communities and the VACs on the need and importance of such a body. After elaborate discussions and education work the APEX body was constituted in a democratic process by electing two representatives from each VAC. The members decided to call the APEX body as The Chandavaram Reservoir committee.

SNIRD reports that the VACs at the village level act as the planning and monitoring body guiding the youth and women groups to take up different activities. These VACs have become effective bodies and will be able to sustain themselves.

SNIRD is now in the process of training the APEX body members to take on increased responsibility and function as an effective body. At the village level the organisation keeps the people involved in their regular programmes like the awareness programmes, health and hygiene promotion activities, school health programmes and the social forestry programme. To sustain the interest of the village level groups, SNIRD encourages the women groups to take up thrift and credit activities, the youth groups to take up activities related to sports and cultural activities.

SNIRD has also been making all efforts to mobilise the GPs in the village activities and ensuring that the responsibility is taken up by them. It has been encouraging to note that the GPs have started taking additional responsibility and are spending the GP grants to attend to the maintenance of the scheme.

MARI

MARI has been working in 10 villages under the APII programme. MARI has a one year agreement with the RNE. This short agreement has helped to define the project intervention and the strategies to be adopted.

MARI as a first step had formed the WATSAN committees in all the villages. These committees were being given the required training to facilitate them to take some responsibility of the village RWS assets and also function as effective bodies. However MARI realised that the committee members were not being fully accepted by the community and also they failed to take responsibility in the village.

This was a constraint and MARI felt the best way to rectify the issue was reconstitute the committees. Further to effectively represent issues and to take responsibility for the scheme as such the need for the APEX body was floated. Though the process of identifying the members has begun MARI can not yet claim to have a effective body. Unseasonal rains, agricultural activities seem to have delayed the process.

MARI is in the last quarter and due to liquidity problems have had problems in completing the targets. MARI hopes to get the permission from the RNE to extend activities to one more quarter when it is more confidant of achieving the envisaged/planned results.

MARI continues to keep the interest of the people alive by organising cultural programmes, village meetings, school health programmes and competitions and wall paintings. House visits and community meetings are part of the every day activity. MARI is also making all efforts to ensure the support of the GP in the upkeep and maintenance of the assets.

The organisation proposes to take a critical look at its functioning by way of an evaluation and plans to make the necessary amendments in the extension phase.

5.16 AP III

- Study of reports on the approach and feasibility of small schemes
- Preparation of TORs for SMs
- Identifying agencies/organisations for PRA
- Identifying possibilities for intermediary groups
- The need to undertake the study on the PRFS villages
- Listing out steps for the preparation of the AP-III document

6 LIFT IRRIGATION SCHEME (MAHBUBNAGAR)

In the QPR of LIS ending 09/96 a figure of Rs.1192.32 lakhs is quoted as RE (RRE) which was Rs.1187 till the QPR June 96 of LIS. The latest figure is higher by 5.32 lakhs. The difference in figures is presented below :

RRE (June 96)	Rs.1187.00 lakhs
RRE (Sept 96)	Rs.1192.00
Expenditure	Rs.1006.111
Balance	Rs.186.21
% Expenditure	85%
Expenditure during the repor	ting
period	Rs.1006.11 - Rs.953.50 = Rs.52.61 lakhs
Irrigation Potential created	9000 acres
Target irrigation potential	10000
% Achieved	90%

12 out of the 14 major components are completed. Commissioning of two pumps and completion of D-5 field channel is pending.

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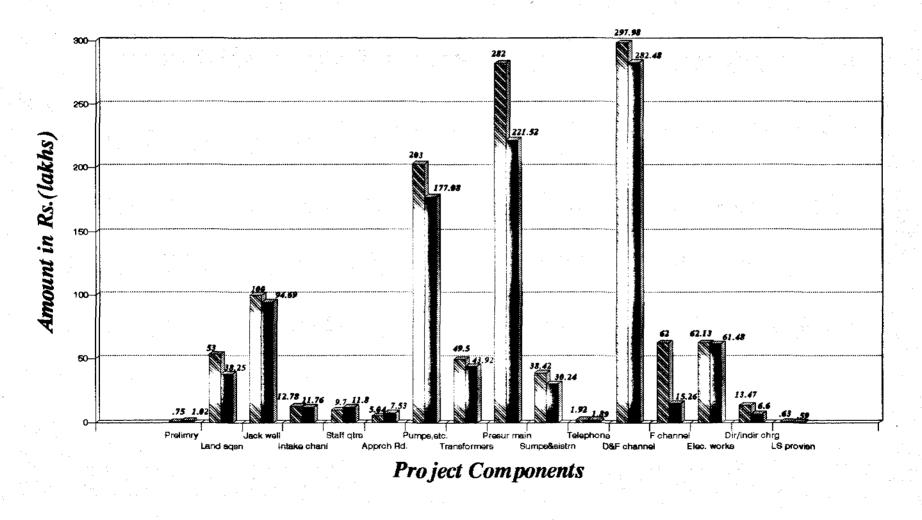
COMPARATIVE STATEMENT OF FINANCIAL EXPENDITURE ON LIS - NAGARKURNOOL

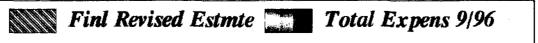
(Rupees in lakhs)

SI.	Name of Work	FRE	Tot Expns	Tot Expns	Tot Expns	Balance
No.		1994		upto 6/96		
1	2	3	4	5	6	(3-6) 7
1	Preliminary	0.75	1.02	1.02	1.02	-0.27
2	Land acquisition	53.00	38.25	38.25	38.25	14.75
3	Jack well	100,00	90.75	94.69	94.69	5.31
4	Intake channel	12.78	11.76	11.76	11.76	1.02
5	Staff quarters	9.70	11.8	11.80	11.80	-2.10
6	Approach road	5.04	7.53	7.53	7.53	-2.49
7	Pumps, manifold, valves & cranes	203.00	176.76	177.08	177.08	25. 92
8	Transformers & transformer yard	49.50	43. 92	43.92	43.92	5.58
9	Pressure main	282.00	221.33	221.52	221.52	60.48
10	Sump and cisterns	38.42	25.8	30.24	30.24	8.18
11	Telephone	1.92	1.89	1.89	1.89	0.03
12	Distributeries & field channels	297. 9 8	256.41	276.18	282.48	15.50
	Field channels	62			15.26	46.74
13	Electrical works	62.13	59. 08	61.07	61.48	0.65
14	Direct & Indirect charges	13.47	6.54	6.60	6.6	6.87
15	LS provision & unforseen	0.63	0.59	0.5 9	0.59	0.04
	TOTAL	1192.32	953.43	984.14	1006.11	186.21

Note: There is a change in the FRE figures submitted by PRED in MPR for 9/96

Lift Irrigation Scheme - Nagarkurnool Financial Expenditure (September 96)

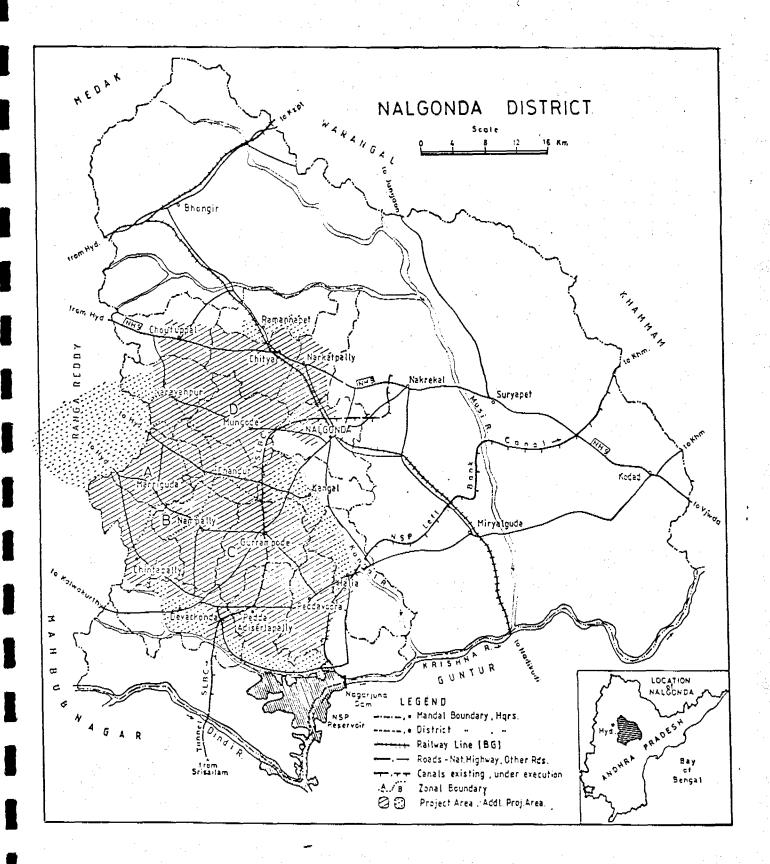




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7 AP III NALGONDA

Map 9 - Nalgonda



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Netherlands Assisted Projects Office

NALGONDA PROJECT

Introduction

With the AP II projects finally nearing completion, more attention was given to the possibilities of the follow up programme AP III, Nalgonda.

In the course of 1996 a number of aspects related to a possible AP III Nalgonda programme were reviewed by the Netherlands Government, Directorate General for International development cooperation.

Aspects such as, the actual plans and designs for the HMWSSB pipeline from Nagarjuna Sagar to Hyderabad, traversing the AP III project area, the problems foreseen in the construction of such a mega project as presented in an earlier proposal, the problems foreseen in the operation and maintenance of a system of such magnitude and complexity, and the lack of encouraging experiences with the painstaking progress of the AP II programmes, were reviewed and resulted in a reorientation for the possibilities towards a follow up programme in Nalgonda.

By August NAPO was requested to assist the PRED in conceptualizing an alternative approach to the RWS problems in the Nalgonda project area.

Such approach would start with a ground water based methodology for zones A, B and D of the project area, initially covering a limited number of villages (approx. 20), in a first year project proposal.

Such proposal would include the phasing in, or start of a follow up project in Nalgonda, as well as the phasing out of the AP II projects in Prakasam, Mahbubnagar, Medak and Kurnool.

PRED has since then been working on the conceptualization of such proposal, with technical assistance from NAPO.

Planning

PRED has been invited to present a proposal for the start up year of AP III, Nalgonda, by March 1997.

NAPO has scheduled two support mission, one in November 1996 and one in February 1997, in order to provide the technical support, requested for the preparation of the next phase. (for details please refer to : workplan NAPO August 1996 - March 1997).

7.1 PRED's Preparations AP III and technical support NAPO.

7.1.1. Developing the methodology and planning for a ground water based village approach in Nalgonda, AP III.

(to be applied to some 20- habitations in the first year).

The alternative approach to RWS in Nalgonda, based on ground water as a source, implies a number of changes in perceptions and attitudes to possibilities for several of the aspects of the programme. A decentralized system of village based water systems, also calls for a different approach to planning of the RWS set up.

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Contrary to the complexity and time frames for the construction of CPWS systems, with elaborate headworks, big transmission systems and finally distribution systems, the planning and construction of the smaller village based systems is less complex, independent of a bigger system and other villages, can be executed in a limited span of time, and can allow much more involvement of the local community, consisting of users and their institutionalised representation.

Likewise, village based systems also offer different options for Operation and Maintenance, to be financed, managed and controlled locally.

These different options are presently being reviewed within the PRED and worked out with assistance of NAPO.

As the first year, start up proposal will have obvious "pilot or experimental" characteristics. The focus in the starting period is on the approach or methodology, rather than on the production of RWS systems in actual villages.

Concentration on working out, experimenting, fine tuning and finalizing an approach for groundwater based RWS facilities, during the starting period, is expected to result in a "blue print" or manual- type of methodology, which can be replicated efficiently and can facilitate the scaling up of the RWS programme for Nalgonda in the succeeding years.

Planning at village level

The activity / conceptualization of such methodology is presently focusing on the village level planning for RWS, identifying all steps in the approach in order to come to a planning model for that level.

These steps cover the subjects of :

- pre-selection criteria, involving an assessment of available RWS and the village needs
- section criteria, based on pre-selection, the interest and willingness of the village to participate and the feasibility of acceptable source
- hydrogeological requirements and activities
- thorough evaluation of existing RWS, social and technical mapping through PRA
- the design of the systems, including the use of existing facilities, and their distribution to exit points,
- arrangements for execution of the works, either through local contractors or through involving the village population in the construction
- the arrangements for O&M, budget, cost recovery and management of the village systems
- arrangements for monitoring and reporting on the systems
- the participation of the local community and their institutionalized representation
- Institutional / administrative steps, requirements, approvals, Government orders and legal aspects at village level

With each subject worked out in operational terms and actual steps, the logical sequence of these steps and the linkage between the various components, e.g. community participation and technical activities, will be synchronized in the planning, by pointing out the predecessor to the activity listed, and listing the milestones.

The items /steps listed will be translated in to time requirements, financial requirements and manpower requirements.

With this methodology/ approach, a specific village plan will be made per village.

This planning will be worked out in MS Project software and will lay the foundation for the monitoring of progress per village.

Planning of the programme

The next step in the planning will be to translate the planning per village, into the over all planning of the project, to begin with a one year period.

Where the village plan should result in an estimate of the time frame needed from start to finish, PRED can determine how the activities in a number of villages can be scheduled, based on the manpower and the teams needed for the various stages of the methodology.

E.G., while construction is going on in one village, the hydrogeological works may executed in another, while the preparatory activities for a village plan are being made in a third village, etc.

It is targeted that the approach leads to a "roll on programme", where it moves through the project area producing RWS systems per village, within a limited span of time, rather than, commencing works in 20 villages at the same time, with a more open ended completion time frame.

While the proposal, expected to be presented in March will focus on the methodology and approach: it is suggested that this will be applied to a number of village, and critically reviewed and adapted wherever necessary, to result in a well tested and finalized methodology to RWS provision.

Based on the experience with the methodology and the volume and speed of providing these village based systems, during the first year, the workplans for the succeeding phase can be filled in, in a follow up proposal.

7.1.2. Hydrogeological activities for the provisions in 25 habitations in zone D, A and B.

The Hydro-geology unit of PRED will provide services to the 25 villages targeted in the first year, as these village plans are developed along the way and the unit's services are requested for. In addition to the services for the first 25 villages, the Hydrogeology unit will explore the feasibility of acceptable qualities and quantities in the remainder of the project area, so that at the end of the starting up year, the scope for a groundwater based approach in these areas is well researched and clarified.

To assist the Hydrogeological unit, NAPO has requested the services of an expert hydro-Geologist, who is expected to strengthen the unit in terms of latest technologies, and advise on the management and operation of the unit, for both research as wells as application in the field. (for details please refer to the NAPO workplan AUG 1996 - March 1997).

NAPO has held discussions with the Hydrogeology expert in the A.P. Well project, regarding the data that have been gathered and researched in this project on Nalgonda District.

It has been agreed that all relevant data will be made available to NAPO/PRED in digital form.

7.1.3 scheduled activities for the preparation of the proposal for the phase out AP II / Phase in AP III year.

8. AP II.

PRED, as represented by 13 Dy EE's from all the concerned Districts, has identified the level of completion for all Districts of AP II, in a three day workshop with assistance of NAPO and the Support Mission. The Incompletions have been listed and translated into a realistic planning for finalization of the AP II programme. (please refer to description of AP II completion in the earlier section of the progress report).

The planning was finalized by the Engineer-in-Chief, with further instructions to the concerned PRED staff that after 31 December, 1996, no further financial bookings will be made on the NAP AP II projects, while the PRED internal completion reports for the four Districts are expected by March 1997.

NAPO welcomes these much awaited measures and hopes these will put the pressure on in the Districts to speed up and finalize the works.

Incompletions existing after 31 December will of course have to be completed still, but have to be booked on the regular PRED programmes. This will put further pressure to speed up the completion of AP II.

PREPARATIONS FOR DRAFTING ALTERNATIVE PROPOSAL

In preparation of an alternative proposal for AP III, Nalgonda, PRED is presently working on the following issues,

- assessment of the ready for use parts of previous documents,
- information on an over all water plan for Nalgonda, if available,
- criteria for village selection,
- Operational planning for ground water based village approach,
- inventory of existing water supply systems in zones D and A and B,
- documentation on de-fluoridation,
- documentation of rain water harvesting and rain fall data,
- composition of PRED staff for AP III and the institutional position of such staff,
- over all Operational plan for all activities, (technical, social, hydrogeological, O&M, monitoring etc).

In cooperation with the PRED, NAPO has meanwhile conducted a research in 9 PRFS villages. The findings have been laid down in an internal working document, called " study on water supply systems, in PRFS villages, Nalgonda, NAPO 9 December 1996".

The findings and conclusions are considered interesting inputs for the ground water based village approach targeted for AP III.

The study indicates good potential for acceptable quantity and quality of RWS, through village based RWS systems with ground water as a source, and indicates interesting options for local management, finance and cost recovery in these systems.

The document has been shared with PRED, Principal Secretary PR & RD and the Netherlands Embassy, and ETC / IWACO.

The study also indicates that these 9 villages could be taken up for improvements on the existing systems, in either the immediate relief fund or as a starter in the AP III proposal.

In any case these villages seem to constitute an interesting point of departure for study and further conceptualization of the approach for the alternative proposal.

ANNEXURES

ANNEXURE I

ABSTRACT STATEMENTS ON QPRs

SF. Name of the work	Estt.	Revised	Upto last	Expen	oiture		Commulative	
No. Mande DI Che WOLK	cost in Lakhs	estima te cost	year 3/96	Upto end of previou- s quarter	During the quarter	Total.	Expenditure in Lachs.	
1. Head works	75.15	90.75	85.28	3.41	2.51	5,92	91.20	
2. Transmission line including CI Spl.and pump sets	277,98	317.70	296.03	0.96	1.47	2.43	298.46	
3. Link Channel		55.00	59.00	1.07		1.07	60.07	
4. Balancing Reservoirs	43.83	13.09	7.59	0.48	0.56	1.04	8.63	
5. Servicing Reservoirs (GLSRS and OHSRs)		55.00	39.19	1.21	0.37	1.58	40.77	
6. Village Distribution	60.85	60.65	51.22	4.46	5.02	9.49	60.70	
7. Buildings	36.28	2_512	20.08	موجه شي		. 	20.08	
8. KM and HM stones	1.01		0.60				0.60	
9. Steel			17.40			. 	17.40	
0. Establishment 12.5 on 506.27	68.28	70.23	77.28		\$ 4		77.28	
1. Coment		· · .	22.31		0.79	0.79	23.10	
2. D.P.A.P.	12.44	77.28	77.37				77.37	
 C.Es.office Duilding vide Lr.No.DB/1173/91-92 			3.00				3.00	
4. L.S.Fluctuation of rates	· ••••	64,00						
5. L.S.for Telecommunication		5.18		~~~		-		
- Total:	744.16	780.00	756.35	11.59	10.72	22.31	778,66	

Ø Deputy Executive Engineer, P.R. Operation & Maintenanos, Sub-Division, GUDEM.

Executive Engineer (P.R.) Dival Wanaparthy. Ø

Panchayat Raj Engineering Department

Motherlands Assisted Porjects: Yemmiganur.Kurnool district.

Abstr ct of quarterly progress Report for the quarter ended by

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 Zone.	Origi nal		RR Ð	Final revi sed	Target	ts Còmula-	Expension ture	11- e	ffici ncy	Plan foß
	esti- mate. codt.	esti matu cost.			quar ter	A 4	This	Cumu lati- ve	quar	cu- qu- mu- ar- ati. ter.
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CPWS5, to	166,19	254.19	282.18	286.52	0.00	256.52	G.44	283.80	c.00 9	99.08
Halvi & 25 Other villa	•	•					•			286.52
ges.	· · ·	ė	•	•			•		•	•
2.CDW55 to Namawal (- '5 other	86.52	144.67	167.63	175.63	0.00	175.63	4.39	144.15	0.00	82 .26 175 .63
villages& PWS.										
3.CPWSS to Sathanur &	190.88	232.57	246.68	232.05	0.00	232.05	3.90	229.05	0.00	
15 other villages.			• • .							232.05
4.CPWSS to Manchala & 6 other vgs.	49,28	77.19	85,91	103.29	0.00	103.29	(-) (-)0.06	\$ 3.7 5	0.00	91.33
5.CPWSS to Chinnakothil:							: 			
& 5 other vg		77.58	86,15	86,77	0.00	86,77	0,00	84.88	0,00	98.42 86.77
6.Administra tive complex & Yemmiganur	15.40	21.26	21.25	24.27	0.00	24.27	0:04	21.09	0,00	90.44
7.Steel&cemc procured.	0.00	0.00	0.00	0.00	0.00	00.00		112.96 21::09	0.00	90.90 0.00
8.Stgel &ste booked on works.	el 0.00	0.00	0.00	0.00	0.00	0.00 (-)i.17	92.36	0.00	
9.PS charges & contingent		ō2.30	35.59	73.50	0.00	73.50	0,80	71.89	c.co	126.22
charges. 10.M.S.CHar-	40.58	60.56	66.73	120.04	0.00	130.04	0,92 1 0,90		0.00	73.50 11.89
ges. 11.880 char- ges.	5.41	8.07	8.90	11.00	0.00	1.00	0.00	13.71	0,00	106 .45 11.00
12.LS Provis Ons.	1-130.45	39.54	36.91	0.00	0.00	0.00	0.00	0,00	0.00	
13.Others.	2.07	2,07	2.07	1.93	0.00	1.93	0.28	1.09	0.0	56,48
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		1098 Lakhs		9/96	
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	CPWSS.Ibrahimour and 24.other Problem Villages.	356.470	342.205	≟ ,2≋0	343.485
	CPWSS Ecremonia and 20 . other problem villages	216:260	191.983	3,353	195,336.
	CPWSS Karasguthy and	193.920	168,565	2,319	170.884
	17 other problem villages.				
· · ·	7 £2.	31.620			31.187
	Cost of materials pro- cured but not allocated to works such as CI Val- ves, Spls and CILA pipes etc.	.	16.516	(-) 0.574	15.842
∕6 .	Cost of Cement and Stae produred but not alloca ted to works.		15.429	(-) 1,773	13.655
7.	Subsidy paid to APSBE incl Constn. of D.P Structures.	15.50	14.727	-	14.727
	CPMSS Ibrahimpur 21 Enroute Villages	66.39	41.880	0.165	42. 045
9,	CFWS5 Borancha 11 Enroute Villages.	35.26	30.732	C.558	31,290
10.	CFWSS Karasguthy 11 Enroute Villages	41.95	36.491	0.130	36.571
11.	Major Estt.Charges	70.72			المج تعلی کی ایج
ā.	S.T.O Payment		and the second	3.033	99.072
,	On Furniture, Yelephones Xerox. M/C , Computers, Vehicles.		24.936	0.676	25,612
c.	Exp. 05.0/0 3.3.M.A.P.	- .	31,721	_	.31.721
12.	P.S.Charges	37.71	26.736	0.420	27.156
13.	Tools and Flants and Storage.	12.43	2,371		8.871
14.	Calephone Connections	5.00		-	
	Other Unforeseen items	2.75	6.717	-	0.717
16.	Amount transfermed to E.E(SR) Miryalguda.		15.000		15.000
•	GRACIO DOTAL,	. 1028.00	1093.735	9.537	1103.272.
C:	(ENDITURE INCURRED CH FERADICH & MANITENANCE 1996-97)	11.125 (uptc 9/36)	11.703	12.304	24.007
120	GIE: All Figures are in	laxns.		Vinjain	
•			5/5-	- Emecutiva E: 1.A.P DIVIEI 1	ngineor(PR) CV, ANDASIVPET.
			∑	- -	

ания Политична A.P. II N.A.P. PROJECT : PARCHUR.

Quarterly Progress Report for the Quarter September 196.

•	· · · · · · · · · · · · · · · · · · ·			Ex	penditure	
S1 Grou No.	p	RRC	FRE	Upto last quarter	During Quarter	Cumula- tivm
1	2	3	4	5	6	7
1. Group- I		291,60	295 ,53	284.65	1.14	285.79
2. Group- I	I N	127.63	125.79	120.76	1.81	122.57
3. Group-II	I	70,93	64.26	61.76	0.91	62.67
4. Group-I	t · · ·	358,90	322,52	288.02	4,27	292.29
5. Buildin	js	24,30	23,95	23.18	-	23.18
6. Mopup a	tivities	00.00	80.85	25.19	8.08	33.27
7. Central stock A		00.00	00.00	21.29	(-)0.80	20,49
8. Cement	& Steel	0.00	0.00	3.79	3.81	7,60
9. PSC ,MS un for	C, T& P seen items	116.64	167.10	157.91	na Na ⊷ Na na na na na	157.91
Tot	al	990.00	1080.00	986.55	19.22	1005.77

Executive Engineer Panchayat Raj Maintenance Division DARSI,

6196

Name of the work	Estt. cost in Lakhs	Revised estimate cost.	Up to last year J/96	Upto end of provi- ous quart- er	Laring the guarter	Total	sxpenditur in Lakhs.
Head works	75.15		 86.37		3.39	3.39	89.76
Stransmission line including	277.98	317.70 55.00 13.09	296.30 59.00 7.59		1.22 1.07 0.48	1.22 1.07 0.48	297.52 60.07 8.07
4) Balancing Reservoirs 5) Servicing Reservoirs (SGLSRS and OHSRS) 6) Village Distribution	 60.85 36.28	55.00 60.65 25.12	39.24 51.22 20.09		1.13 4.46	1.13 4.46 	40.37 55.68 20.09
7) Buildings 8) XM and HM stones 9) Steel	1.01	 	0.60	···			0.60 17.40
<pre>10) Establishment 12.5 on 506.27 11) Cement</pre>	68.28	70.23	77.28 22.37 77.37		 		77.28 22.31 77.37
 12) D.P.A.P. 23) CEs office Ruilding Vide Lr.Eo.DB/1173/91-92 14) L.S.Fluctuation of rates 15) L.S.for Telecommunication 		64.00 5.18	3.00				3.00
15) L.S. for Telecommunication Total:	744.16	780.00	757.77		11.75	11.75	769.52
16) Establishment charges C and M	, <u> </u>	 	17.33		3.84	3.84	21.17
Total:	744.16	780.00	775.10		15.59	15.59	790.69

ABJELLER ARCHERT AN CHE FOR JULATER SUBLIC SULE, 1996 DAL ROLLATOR

Deputy Executive Engineer P.R. Operation & Maintenance Executive Bub-Division, GUDEM, (P.R.) Dive;

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PAYORAYAT RAF REGENSERIES DEPARTUM. NETWERLANDS ASSISTED PROFECTS: YEARLOWUR: HURLICH DT. ABSTRACT CF QUARTERLY FROGRESS RDPORT YOR THE TUARTED JUNE ENDE Cri- Revi ADE Efficient Flea rinal Expendirevil BARGETS.... gene. cin s€d tire ---for This Curu- next Atr. lative.gua-<u>z1</u> Est s∋ã This Cumu-This Cumu Est. Est. gter lati cost lati Qtr. cost cost. verter. ve. 1.CPWS to Halvi a 25 other vgs. 232.18 236.52 0.00 236.52 0.19 233.36 0.00 90.93 235.52 166.19 254.19 . . . 2.CPUSS to Hanatral 5 other villages L 2 PNS 86.52 144.67 167.63 175.63 0.00 175.63 7.77 139.76 0.00 79.72 175.63 3.CPWSS to Sathanur a 15 other villages 120,35 222,57 246,63 232.05 0.00 232.05 6.15 225.15 0.00 97.07 232.05 1.CPUSS to Hanchala 6 other villages 49.20 77.19 35.01 103.20 0.00 103.20 0.26 03.31 0.00 01.13 103.29 .೧೯೫೧ ಓಂ bhinnelkothiliki other villages 42.77 77.58 86.15 36.77 0.00 36.77-0.50 04.35 0.00 90.42 85.77 .<u>Aduinistraiva</u> Complex Gyo sigeaur 21.25 24.27 0.00 15.40 21.26 24.27(-)0.04 21.65 0.00 89.70 24.27 . Steel & Cemant 0.00 0.00 rocured. 5.05 9.00 9,00 0.00 0.00 112.96 0.00 0.00 0.00 .Steel & Cement oched on works 0.00 0.00 0.00 0.00 0.00 0.004-7.164-)91.19 0.00 0.01 0.01 .P.S. Charges & ontingent Charters 21.34 32.30 35.59 73.50 0.09 75,50 2.31 71.39 0.00 121.12 75.50 0.H.S.Charque 40,50 SCES - CS.73 130.04 0.00 130.0440.17 161.04 0. C 110. C130.04 1.7 & F Charges 0.30 11.00 0.00 11.00 0.00 11.71 0.7 105.05 11.00 5.41 3.07 2. L.S.Yromisions 0.00 0.00 0.00 0.00 0.09 6.01 **9.**17 130.46 30.54 35.91 S. 1.93 3. Others 2.31 0.10 21.271 1.23 2.07 8::31 0.00 2.07 2.07 1.93 0.00 741.20/050.001040.00/125.00 0.00/125.00/07.00/1005.00/0.00/100.00

Seperintrading Segierar Tanchayat Raj, Circle Kurncol . Inventive Casineer
(P)C) Division, .
Adoni.

	OUARTERLY PROGRESS RE	PORT FOR THE	OUARTER FIND	TNG TIME 1	996
5	A.P. A.P.II MEDAK D				and the second
-0					
1.	Name of Sub-Head	Provision in R.R.E.of N. 1088.Lakhs.	Exp.upto	Exp.from	
-0-	2. -0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	3.	4.	5,	6.
. T.	CPWSS Ibrahimpur and			0-0-0-0-0-	
•	24 other Problem Villages.	356.470	341,685	0.520	342,205
	CPWSS Borancha and 20 other Problem Villages		191.983		191.983
•	CPWSS Karasguthy and 17 other Problem villa ges.	193,920	167.095	1.470	168.565
•	Buildings incl.PS. and T&P	31.620	31.187		31.187
	Cost of materials pro- cured but not allocate to works such as CI Va ves, spls, and CILA pip etc.	d - 1-	17,626	(-)1.110	.16.516
	Cost of Cement and Ste procured but not alloc ted works		14.0 <u>1</u> 8	1.411	15.429
	Subsidy paid to APSEB incl; constn.; of D.P.Strucutres.	15.50	14.334	0.393	14.727
	CPWSS Ibrahimpur 21 Enroute Villages	66.39	41.574	0.306	41.880
	CPWSS Borancha 11 Enroute Villages.	36.26	30.710	0.022	30.732
).	CPWSS Karasguthy 11 Enroute Villages	41.96	35.946	0.545	36.491
•	Major Estt.Charges	70.72		-	
	S.T.O.Payment		93.237	2.802	96.039
	On Furniture, Telephone Xerox M/S.Computers Vehicles.	3	24,557	0,379	,24.936
	Exp., of S.E.NA.P.		31.721	-	
•	P.S.Charges.	37.71	25,970	0.766	26.736
•	Tools and Plants and Storage	12.43	8.871		8.871
•	Telephone connections "	6.00			
•	Other Unforeseen items	2.76	0.717		0.717
•	Amount transferred to EE. (PR) Miryalguda.		15.00		15.00
	GRAND TOTAL: RS.	1088.00	1086.231	7.504	1093.735
	EXPENDITURE INCURRED OF OPERATION AND MAINTEN- ANCE (1996-97)		\$TX508	11.703	11.703

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ANCE (1996-97) NOTE: ALL FIGURES ARE LAKHS.

Executive Engineer, (PR) Mr. N.A.P. DIVISION SADASIVPET

A.P.II N.A.P. PROJECT: BARCHOOR.

			<u>.</u>	, 				
S.NO.	Group.	R.R.E.	F.R.E.	Expenditure				
· · ·		ana Angarang ang ang ang ang ang ang ang ang ang	•	Upto last Quarter.	During Cumula- Quarter. tive.			
1.	2.	3	4.	5.	6, · 7,			

QUARTERLY PROGRESS REPORT FOR THE QUARTER: JUNE, 96.

1.	2.	3	4.	5.	6.	• 7.
1.	Group.I	291.60	295.53	284,65	-	284.65
2.	Group.II	127.63	125.79	120.09	0.67	120.76
3.	Group.III	70.93	64.26	61.70	0.06	61.76
4.	Group.IV	358.90	322.52	287.08	0.94	288.02
5.	Buildings.	24.30	23.95	23.18		23-18
6. [`]	Mop-up Activities.	00.00	80.85	22.26	2.93	25.19
7.	Central Stores/Stock A/c.	00.00	00,00	20.49	0.80	21,29
8.	Cement & Steel.	0.00	0.00	2.38	1.41	3.79
9.	PSC, MSC, T&P, Unford seen Items.	²⁻ 116,64	167.10	157.91		157.91

Total: 990.00 1080.00 979.74 6.81 986.55

Executive Engineer, P.R., Maintenance Division:: Darsi. 23/1956

ANNEXURE II

CUMULATIVE STATEMENT ON PHYSICAL PROGRESS

MAJOR COMPONENTS OF RWS AP II

Cumulative	Physical	Progress	AP	11	(9/96)	
		~			``	

Items	Total	Works	Complet	Balance
	Works	Deleted	[
Filters	38	1	37	0
S.S. Tanks	43	13	30	0
S. Tanks	7	. 0	7	0
Raw water wells	63	7	56	0
Clear water sumps	43	0	43	0
Pump houses	76	5	71	0
Pumping units	191	0	166+*	*
OHSR	77	0	75	2
BR	17	0	17	0
GLSR	146	0	145	1
Cisterns	47	0	*	*
Buildings	50	0	40+*	*
R/w trans. lines (km)	77.02	0	*	*
C/w trans. lines (km)	650.29	0	*	*
Dist. from village (km)	145.5	0	*	*

ANNEXURE III

£

LPCD DETAILS AND CAPACITY UTILISATION FOR CPWSS OF AP II

A note on the model for monitoring operation of water supply schemes

NAPO is on the threshold of developing a computerised model for monitoring the functioning of rural water supply schemes.

Model gives comparative analysis as given below

Constructed Capacity Vs Pumped quantities Vs Water received

The functioning of a scheme can be best judged in terms of what it has delivered to the people in the villages, comparing the delivery at village level to what has been pumped at scheme level gives an idea about leakages and wastage (which is a case more often than not). Similarly comparing these two factors with the built up capacity would give a picture about the capacity utilisation and the leakages and wastage there in.

Sources of information for the model

i. Inventory of the schemes : Comprehensive information including as built details of all NAP schemes provided by PRED ii. Aggregate pumping data : Details of pumping for a month for a village, cluster and scheme maintained and supplied by the Panchayati Raj Engineering Department (PRED)

iii. Village level water monitoring formats : Details of daily water supply at village level which are recorded by the community

In this note various parameters of this model as well as how to arrive at these parameters is explained.

Infrastructure Capacity for Pumping : The actual built up capacity of a scheme for pumping the both raw water and clear water is given by this parameter.

The capacity for pumping is a factor of discharge capacity of the motor expressed in cu.m per hour and no of hours motor is designed to operate.

Design capacity :Discharge(cum/hr)*no.of hrs (designed) for a day

Design capacity :Discharge(cum/hr)*no.of hrs(designed)*no of days for the month

Illustration (capacity for pumping) :

Discharge capacity of the pump : 54 cum/hr No. of hours of operation (design) : 16 No of days in a month : 31

Infrastructure capacity for pumping : 54*16*31 cum for the month

: 26784 cum

In this manner infrastructure capacity for pumping the raw water and clear water can be arrived at.

As built capacity for discharge and designed no of hours would be available in the inventory of the schemes (to be) furnished by PRED.

Actual volume of water pumped : A scheme need not necessarily function up to its capacity and it would be interesting to know how much water is actually pumped vis-a-vis it's capacity.

Actually pumped volume : Discharge(cum/hr)*no.of hrs (actual) per day

Illustration (actual volume of water pumped):

Discharge capacity of the pump : 54 cum/hr No. of hours of operation (actual) : 12 No of days of supply in the month : 30

Actual pumping for the month

: 19440 cum

: 54*12*30 cum

In this manner actual volume of pumping (both raw water and

Actual figures of discharge, no of hours (operated) and pumping days would be available in the aggregate pumping data furnished by the PRED.

Water received at village level :

clear water) can be arrived at.

Actually the interface between the village and water supply scheme is either a GLSR or OHSR through which a village receives the water. A scheme may pump water up to its full capacity or part of it but what is of paramount importance is how much water is received at the village level.

The quantity of water a village received in a month can be calculated from the capacity of the reservoir multiplied by no of times the reservoir is filled per day again multiplied by no of days/month the reservoir is filled.

Volume of water received at the village per month :

Reservoir capacity (cum) * no of fillings/day * no of days filled * 1.25

1.25 is a factor taken considering that 25% of reservoir capacity is consumed while filling the reservoir.

Illustration (water received at village):

Reservoir capacity : 60 cum No of fillings/day : 1 No of days filled : 31 per month

Total volume of water received in the village per month : 60*1*31* 1.25 = 2325 cum

Total of volumes received at different villages of the scheme can be compared with the pumping information and as built capacity.

The required information such as reservoir capacity, no of fillings per day and no of days filled would be available from the water monitoring formats submitted by the NGOs.

Water supply index : It would be useful to compare various parameters like built up capacity, pumped details, delivery of water and express each parameter as a fraction of capacity and similarly what is received as a fraction of the capacity and pumped. It would be very confusing to give fraction of one factor which it self is a fraction of another factor.

Hence an index which gives comparison of various stages would be very helpful to understand the operation of the scheme. The following factors give an understanding of water supply at various stages

ratio of r/w pumped to the capacity of r/w pumping
 ratio of c/w pumped to the capacity of r/w pumping
 ratio of water received at villages to capacity of r/w
 pumping

Illustration :

i. Raw water pumped capacity : 100 litres ii. raw water pumped : 80 litres iii. clear water pumped : 60 litres iv. water received at village : 40 litres

Raw water capacity (c	C) :	100/100	33	1.0	С	
raw water pumped		80/100	×	0.8	С	
clear water pumped	:	60/100	12	0.6	С	
water supply index (a	at village)	: 40/100		= 0.	4 c	3 1 1

Annexure 3.2

Analysis Capacity Vs Pumping of water

Scheme : Chinnamaroor

District : Month : Mahabubnagar Apr,96

Pum	ping c	apacity	/VsPun	nped Vol	ume	(R/W)			
	Infrastructure			Actually Pumped					
Capa	Capacity PRED (r/			Details PRED (r/w)					
Pum	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hour		Capa	Hrs/day	pum	[Сар	Act
Cum		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
330	16	2E 05	330	8.5	30	84150	72259		
							ų Į	1	
							<u> </u>		
						1. A. A.			
							l		
Total		2E 05				84150	72259	73.1	38.8
(12200	10.1	
		apacity	v Vs Purr			(C/W)	12200	170.1	
Infras	tructu	apacity re		Actually	Pump	(C/W)	, <u>, 2200</u>	10.1	
Infras Capa	tructu city P	apacity re RED (c/		Actually Details F	Pump PRED	(C/W) bed			
Infras Capa Pum	tructu city P Avg.	apacity re	Pump	Actually Details F Avg.	Pump PRED Days	(C/W) bed			
Infras Capa Pum Capa	tructu city P	apacity re RED (c/ Vol	Pump Capa	Actually Details F	Pump PRED Days	(C/W) bed Vol		Сар	Act
Infras Capa Pum Capa Cum	tructu city P Avg. Hour	re RED (c/ Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/d	Pump RED Days pum	(C/W) bed Vol Cu.m	Popul	Cap LPCD	Act LPCD
Infras Capa Pum Capa	tructu city P Avg.	apacity re RED (c/ Vol	Pump Capa	Actually Details F Avg.	Pump PRED Days	(C/W) bed Vol Cu.m		Сар	Act
Infras Capa Pum Capa Cum	tructu city P Avg. Hour	re RED (c/ Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/d	Pump RED Days pum	(C/W) bed Vol Cu.m	Popul	Cap LPCD	Act LPCD
Infras Capa Pum Capa Cum	tructu city P Avg. Hour	re RED (c/ Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/d	Pump RED Days pum	(C/W) bed Vol Cu.m	Popul	Cap LPCD	Act LPCD
Infras Capa Pum Capa Cum	tructu city P Avg. Hour	re RED (c/ Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/d	Pump RED Days pum	(C/W) bed Vol Cu.m	Popul	Cap LPCD	Act LPCD
Infras Capa Pum Capa Cum	tructu city P Avg. Hour	re RED (c/ Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/d	Pump RED Days pum	(C/W) bed Vol Cu.m	Popul	Cap LPCD	Act LPCD
Infras Capa Pum Capa Cum	tructu city P Avg. Hour	re RED (c/ Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/d	Pump RED Days pum	(C/W) bed Vol Cu.m	Popul	Cap LPCD	Act LPCD
Infras Capa Pum Capa Cum	tructu city P Avg. Hour	re RED (c/ Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/d	Pump RED Days pum	(C/W) bed Vol Cu.m	Popul	Cap LPCD	Act LPCD
Infras Capa Pum Capa Cum	tructu city P Avg. Hour	re RED (c/ Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/d	Pump RED Days pum	(C/W) bed Vol Cu.m	Popul	Cap LPCD	Act LPCD
Infras Capa Pum Capa Cum	tructu city P Avg. Hour	re RED (c/ Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/d	Pump RED Days pum	(C/W) bed Vol Cu.m	Popul	Cap LPCD	Act LPCD
Infras Capa Pum Capa Cum	tructu city P Avg. Hour	re RED (c/ Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/d	Pump RED Days pum	(C/W) bed Vol Cu.m	Popul	Cap LPCD	Act LPCD

At a Glance comparison

		Pumpe	
R/w Vol C	2E 05	84150	
C/w Vol C	2E 05	63194	
R/w LPCD	73.1	38.8	
C/w LPCD	69.6	29.2	
Compariso	on in pe	rcentage	, 93 _
	Capaci	Pumpe	c/w/cap
R/w Vol C	100%	53%	
C/w Vol C	100%	42%	40%
R/w LPCD	100%	53%	

100%

C/w LPCD

42%

Scheme :	Chinnamaroor		-	
			÷	

District : Ma Month : Ma

Mahabubnagar May,96

Pumping	g capacit	ly Vs Pu	mped Vo	olume (F	I/W)			-	
Infrastru	nfrastructure Actually Pumped								
Capacity	apacity PRED (r/w)			Details P	RED (r/v]
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	_		
Capa	Hours/d		Capa	Hrs/day	pump			Сар	Act
Cum/hr		Cu.m	Cu.m				Popul	LPCD	LPCD
330	· 16	163680	330	6	20	39600	72259		
							2	Į	
Total	<u> </u>	163680		[]		39600	72259	73.1	17.7
	g capaci	ity Vs Pu	Imped V	- territ	C/W)				
Infrastru				Actually		ł			
	y PRED (Details f					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol		Ì	
Capa	Hours/d	1	Capa	Hours/d	pump			Cap	Act
Cum/hr		Cu.m	Cu.m				Popul		LPCD
314.4	16	155942	314.4	5	20	31440	72259	69.6	14.5
		· ·			,		1		
					Į		ł		
	1 .				{		ł	.	
	<u> </u>	↓	 	<u> </u>	<u> </u>		<u> </u>		
			4		ł				
	 	<u> </u>	ļ		ļ			<u> </u>	
Total		155942		I	<u> </u>	31440	72259	69.6	14.5

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	163680	39600
C/w Vol Cum	155942	31440
R/w LPCD	73.1	17.7
C/w LPCD	69.6	14.5

Details	Capacit	Pumpe	
R/w Vol Cum	100%	24%	
C/w Vol Cum	100%	20%	19%
R/w LPCD	100%	24%	
C/w LPCD	100%	21%	

Scheme): :	Chinnan	naroor			District :		Mahabu	bnagar
		·				Month :	·	June 96	
									н
Pumpin	g capaci	ty Vs Pu	mped Vo	olume (F	!/₩)				
Infrastru	icture			Actually	Pumped				
Capacity	y PRED (I	r/w)		Details F	RED (r/v	v)	l		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hrs/day	pump	1	-	Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
397.5	16	190800	397.5	11	30	131175	72259		
Total		190800				131175	72259	88.0	60.5
Pumpin	g capaci	ty Vs Pu	mped Vo	olume (C	:/W)				
Infrastru	cture			Actually	Pumped				
Capacity	PRED (c/w)		Details P	RED			· .	
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hours/d	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
158.4	16	76032	158.4	8	30	38016			
156	16	74880	156	8	30	37440			
22.74	16	10915.2	22.74	6	30	4093.2			
				•					
			an a	4					
Total		161827.				79549.2	72259	74.7	36.7
At a Gla	nce com	parison			4				
Details		Capacit	Pumpe] .					
R/w Vol	Cum	190800	131175						
C/w Vol	Cum	161827.	7954 9.2						
R/w LPC	D	88.0	60.5						
C/w LPC	D	74.7	36.7					•	
	ison in p	ercenta	ges			· .		•	
Details		Capacit	Pumpe						•
R/w Vol	Cum	100%	and the American second	Ĭ					
C/w Vol		100%	49%	42%					
R/w LPC	D	100%	69%					С. С.	
C/w LPC	D	100%	49%			· ·			

Scheme :	Chinnamaroor	 . · ·	District :	Mahabubnagar
			Month :	July 96
Pumning ca	pacity Vs Pumped Volum			

Pumpin	g capacil	ty Vs Pur	nped Vo	lume (R	/W)				
Infrastru	cture			Actually I	Pumped				
Capacity	PRED (r	/w)	÷ .	Details P	RED (r/v	v)			
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	•		
Capa	Hours/d		Capa	Hrs/day	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
397.5	16	197160	397.5	10	31	123225	72259		
								•	· ·
Total		197160				123225	72259	88.0	55.0
Pumpin	g capaci	ty Vs Pu	mped Vo	olume (C	:/ W)				
Infrastru	icture			Actually	Pumped				
Capacit	y PRED (c/w)		Details F	RED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	1		
Capa	Hours/d		Capa	Hours/d	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
158.4	16	78566.4	158.4	7	31	34372.8			
156	16	77376	156	7	31	33852			
22.74	16	11279.0	22.74	6	31	4229.64			1
		· · ·							
Total		167221.				72454.4	72259	74.7	32.3
At a Gla	ance con	nparison							
Details		Capacit	Dumos	٦					

Details	Capacit	Pumpe
R/w Vol Cum	197160	123225
C/w Vol Cum	167221.	72454.4
R/w LPCD	88.0	55.0
C/w LPCD	74.7	32.3

Comparison in percentages

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Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	63%	
C/w Vol Cum	100%	43%	37%
R/w LPCD	100%	63%	
C/w LPCD	100%	43%	

Scheme:

Chinnamaroor

District : Month : Mahabubnagar Aug 96

Pumping capacity Vs Pumped Volume (R/W)

	3	ty 731 di		<u> </u>	,,,,,					
Infrastru	cture			Actually	Pumped					
Capacity PRED (r/w)				Details F	RED (r/v	v)				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol				
Capa	Hours/d		Capa	Hrs/day	pump) ·	Cap	Act	
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
397.5	16	197160	397.5	11	20	87450	72259			
Total		197 1 60				87450	72259	88.0	39.0	
Pumping capacity Vs Pumped Volume (C/W)										
Infrastru	cture			Actually	Pumped					
Capacity	PRED (c/w)		Details P	RED					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol				
Capa	Hours/d		Capa	Hours/d	pump			Сар	Act	
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
158.4	16	78566.4	158.4	9	20	28512				
156	16	7 7376	156	8	20	24960				
22.74	16	11279.0	22.74	5	18	2046.6				
		· · ·	-							
Total		167221.				55518.6	72259	74.7	24.8	
At a Gla		naricon								

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	197160	87450
C/w Vol Cum	167221.	55518.6
R/w LPCD	88.0	39.0
C/w LPCD	74.7	24.8

Details	Capacit	Pumpe	
R/w Vol Cum	100%	44%	
C/w Vol Cum	100%	33%	28%
R/w LPCD	100%	44%	
C/w LPCD	100%	33%	

Scheme: Chinnamaroor

District : Month : Mahabubnagar Sep,96

Pumping capacity Vs Pumped Volume (R/W)

	unping cupacity volume (n/w)									
Infrastructure			Actually I	Pumped						
Capacity PRED (r/w)	0	Details PRED (r/w)					· · · · ·			
Pump Avg.	Vol	Pump	Avg.	Days	Vol					
Capa Hours/d		Capa	Hrs/day	pump			Cap	Act		
Cum/hr (Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD		
397.5 16 19	90800	397 .5	16	27	171720	72259				
							'			
Total 19	90800				171720	72259	88.0	79.2		
Pumping capacity	Vs Pun	nped Vo	lume (C	/W)						
Infrastructure			Actually Pumped				+ .			
Capacity PRED (c/w	v)		Details P	RED						
Pump Avg.	Vol	Pump	Avg.	Days	Vol					
Capa Hours/d		Capa	Hours/d	pump			Сар	Act		
Cum/hr	Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD		
158.4 16 7	76032	158.4	10	27	42768					
156 16 7	74880	156	11	27	46332					
22.74 16 10	0915.2	22.74	6	26	3547.44			1		
	-									
		*								
Total 16	61827.				92647.4	72259	74.7	42.7		
At a Glance comparison										

Details	Capacit	Pumpe
R/w Vol Cum	190800	171720
C/w Vol Cum	161 827.	92647.4
R/w LPCD	88.0	79.2
C/w LPCD	74.7	42.7

Details	Capacit	Pumpe	
R/w Vol Cum	100%	90%	
C/w Vol Cum	100%	57%	49%
R/w LPCD	100%	90%	
C/w LPCD	100%	57%	

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Scheme	:
NGO :	

Chinnakothiliki HERSELF

District : Month :

Apr,96

Pumping capacity	Vs Pumped Volume	Vs Delivery at the villa	age (R/W)
			And the second se

rastructure Actually Pumped			Actually delivered at							
PRED (r/w)		Details F	RED (r/	<u>v)</u>	Village (NGO)				
Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Hours/		Capa	Hrs/day	pump		name	cap	Fillings/	filled	
	Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
16	25920	54	14.5	30	23490	Ckothili	60	1	30	2250
•						Sajeeva	5	1	30	187.5
			,			Pkthili	60	1	30	2250
						Johara	15	1	24	450
						Gvarm	15	1	26	487.5
							155			5625
						Pchinta	35	1	29	1268.8
						Soganu	60	1	28	2100
			1			Tskalur	60	1	0	0
							155			3368.8
	25920				23490		310			8993.8
g capaci	ity Vs Pu	mped V	olume V	s Delive	ry at the	village	(C/W)			
	/ PRED (Avg. Hours/ 16	/ PRED (r/w) Avg. Vol Hours/ 16 25920	PRED (r/w) Avg. Vol Pump Hours/ Capa Cu.m Cu.m 16 25920 54	Y PRED (r/w) Details F Avg. Vol Pump Avg. Hours/ Capa Hrs/day Cu.m Cu.m 14.5 16 25920 54 14.5 17 25920 54 14.5 18 25920 54 14.5	Y PRED (r/w) Details PRED (r/x) Avg. Vol Pump Avg. Days Hours/ Capa Hrs/day pump Cu.m Cu.m 16 25920 54 14.5 30 Image: State of the state	Y PRED (r/w) Details PRED (r/w) Avg. Vol Pump Avg. Days Vol Hours/ Capa Hrs/day pump Cu.m Cu.m Cu.m 16 25920 54 14.5 30 23490 16 25920 54 14.5 30 23490 17 25920 54 14.5 30 23490 18 25920 54 14.5 30 23490 19 19 19 19 19 19 19 19 19 19 19 19 10 25920 54 14.5 30 23490 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 <td< td=""><td>V PRED (r/w) Details PRED (r/w) Avg. Vol Pump Avg. Days Vol Village Hours/ Capa Hrs/day pump name Cu.m Cu.m Cu.m Cu.m Cu.m 16 25920 54 14.5 30 23490 Ckothili Sajeeva Pkthili Johara Gvarm Pkthili Johara 16 25920 54 14.5 30 23490 Ckothili 17 Photom Photom Photom Photom Photom Photom 16 25920 54 14.5 30 23490 Ckothili Sajeeva Photom Photom Photom Photom Photom 17 Photom Photom Photom Photom Photom Photom 18 Photom Photom Photom Photom Photom Photom 19 Photom Photom Photom Photom Photom Photom 19 Photom Photom Photom</td><td>V PRED (r/w)Details PRED (r/w)Village (Avg.VolPumpAvg.DaysVolVillager/vHours/CapaHrs/daypumpnamecapCu.mCu.mCu.mCu.mCu.mCu.mCu.m16259205414.53023490Ckothili60Sajeeva5Pkthili60Johara15Gvarm15155155155155155</td><td>V PRED (r/w)Velails PRED (r/w)Village (NGO)Avg.VolPumpAvg.DaysVolVillager/vNoHours/CapaHrs/daypumpnamecapFillings/Cu.mCu.mCu.mCu.mCu.mDaysVolVillager/vNo16259205414.53023490Ckothili60116259205414.53023490Ckothili60116259205414.53023490Ckothili60116259205414.53023490Ckothili60117GapInterpretionInterpretionInterpretionInterpretionInterpretion18InterpretionInterpretionInterpretionInterpretionInterpretion19InterpretionInterpretionInterpretionInterpretionInterpretion19InterpretionInterpretionInterpretionInterpretionInterpretion19InterpretionInterpretionInterpretionInterpretionInterpretion10InterpretionInterpretionInterpretionInterpretionInterpretion19InterpretionInterpretionInterpretionInterpretionInterpretion10InterpretionInterpretionInterpretionInterpretionInterpretion10InterpretionInterpretionInte</td><td>V PRED (r/w)Details $PRED (r/w)$Village (NGO)Avg.VolPumpAvg.DaysVolVillager/vNoDaysHours/CapaHrs/daypumpnamecapFillings/filledCu.mCu.mCu.mCu.mCu.mDayCu.mDay16259205414.53023490Ckothili60130Sajeeva5130Sajeeva5130Johara15124Image</td></td<>	V PRED (r/w) Details PRED (r/w) Avg. Vol Pump Avg. Days Vol Village Hours/ Capa Hrs/day pump name Cu.m Cu.m Cu.m Cu.m Cu.m 16 25920 54 14.5 30 23490 Ckothili Sajeeva Pkthili Johara Gvarm Pkthili Johara 16 25920 54 14.5 30 23490 Ckothili 17 Photom Photom Photom Photom Photom Photom 16 25920 54 14.5 30 23490 Ckothili Sajeeva Photom Photom Photom Photom Photom 17 Photom Photom Photom Photom Photom Photom 18 Photom Photom Photom Photom Photom Photom 19 Photom Photom Photom Photom Photom Photom 19 Photom Photom Photom	V PRED (r/w)Details PRED (r/w)Village (Avg.VolPumpAvg.DaysVolVillager/vHours/CapaHrs/daypumpnamecapCu.mCu.mCu.mCu.mCu.mCu.mCu.m16259205414.53023490Ckothili60Sajeeva5Pkthili60Johara15Gvarm15155155155155155	V PRED (r/w)Velails PRED (r/w)Village (NGO)Avg.VolPumpAvg.DaysVolVillager/vNoHours/CapaHrs/daypumpnamecapFillings/Cu.mCu.mCu.mCu.mCu.mDaysVolVillager/vNo16259205414.53023490Ckothili60116259205414.53023490Ckothili60116259205414.53023490Ckothili60116259205414.53023490Ckothili60117GapInterpretionInterpretionInterpretionInterpretionInterpretion18InterpretionInterpretionInterpretionInterpretionInterpretion19InterpretionInterpretionInterpretionInterpretionInterpretion19InterpretionInterpretionInterpretionInterpretionInterpretion19InterpretionInterpretionInterpretionInterpretionInterpretion10InterpretionInterpretionInterpretionInterpretionInterpretion19InterpretionInterpretionInterpretionInterpretionInterpretion10InterpretionInterpretionInterpretionInterpretionInterpretion10InterpretionInterpretionInte	V PRED (r/w)Details $PRED (r/w)$ Village (NGO)Avg.VolPumpAvg.DaysVolVillage r/v NoDaysHours/CapaHrs/daypumpnamecapFillings/filledCu.mCu.mCu.mCu.mCu.mDayCu.mDay16259205414.53023490Ckothili60130Sajeeva5130Sajeeva5130Johara15124Image

Infrastru	cture			Actually	Pumped		Actually delivered a			d at	
Capacity	PRED (c/w)	Details PRED				Village (NGO)				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/		Сара	Hours/	pump		⊓ame	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m		•	Cu.m		Cu,m	Day		Cu.m
22.38	16	10742	22.38	13.5	30	9063.9	Ckothili	60	1	30	2250
							Sajeeva	5	1	30	187.5
							Pkthili	60	1	30	2250
							Johara	15	1	24	450
							Gvarm	15	1	26	487.5
								155			5625
21.3	16	10565	21.3	14	30	8946	Pchinta	35	1	29	1268.8
							Soganu	60	1	28	2100
							Tskalur	60	1	0	0
								155	-		3368.8
Total		21307				18010		310			8993.8

Village wise LPCD delivery

S.No	Village name	Populat	LPCD
			•
1	Chinnakothiliki	2151	34.9
2	Sajeevapuram	200	31.3
3	Peddakothiliki	1687	44.5
4	Joharapuram	615	24.4
5	Gangavaram	524	31.0
Zone I	Sub Total	5177	35.0
6	Poolachinta	1409	30.0
7	Soganur	1660	42.2
	Sub Total	8246	36.4
8	Tskalur	2159	0.0
Zone II	Sub Total	5228	21.5
Schem	G.Total	10405	28.8

Details	Capacit	Pumpe	Delivery
R/w Vol Cum	25920	23490	8994
C/w Vol Cum	21307	18010	8994
R/w LPCD	83.0	75.3	36.4
C/w LPCD	68.3	57.7	36.4
Comparison in	nercente		

Details	Capacit	Pumpe	Delivery	c/w/cap
R/w Vol Cum	100%	91%	35%	
C/w Vol Cum	100%	85%	42%	69%
R/w LPCD	100%	91%	44%	
C/W LPCD	100%	85%	53%	_

	Trial run on	Chinna	ikothilik <mark>i</mark> Sch	neme	
Scheme :	Chinnakothiliki		District :	Kurnool	· · ·
NĜO :	HERSELF		Month :	May,96	

Pumping capacity Vs Pumped Volume Vs Delivery at the village (R/W)

Infrastru	cture	•		Actually	Pumped		Actually delivered at				
Capacity	PRED (r/w)		Details P	RED (r/v	v)	Village (NGO)				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/		Capa	Hrs/day	pump		name	cap	Fillings/	filled	
Cum/hr		Ċu.m	Çu.m			Cu.m		Cu.m	Day		Cu.m
54	16	26784	54	14	31	23436	Ckothili	60	1	31	2325
							Sajeeva	5	1	31	193.75
	•						Pkthili	60	1	31	2325
							Johara	15	1	27	506.25
			1				Gvarm	15	1	28	525
			- e - e -					155			5875
							Pchinta	35	1	30	1312.5
							Soganu	60	1	21	1575
	ł						Tskalur	60	1	0	0
								155	<u> </u>		2887.5
Total		26784				23436		310	<u> </u>		8762.5
Pumpir	ig capac	ity Vs P	umped \	/olume V	s Delive	ry at the	e village	(C/W)		No. 1	

Infrastru	cture			Actually	Pumped			Actually	delivered	d at			
Capacity	Capacity PRED (c/w)			Details P	RED			Village (NGO)				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol		
Capa	Hours/		Capa	Hours/	pump		name	cap	Fillings/	filled			
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m		
22.38	16	11100	22.38	14	31	9713	Ckothili	60	1	31	2325		
							Sajeeva	5	1	31	193.75		
							Pkthili	60	1	31	2325		
							Johara	15	1	27	506.25		
1			· ·				Gvarm	15	1	28	525		
								155			5875		
21.3	16	10565	21.3	15	31	99 05	Pchinta	35	1	30	1312.5		
	l			1			Soganu	60	1	21	1575		
							Tskalur	60	1	0	0		
	· · · · · · · · · · · · · · · · · · ·							155			2887.5		
Total		21665				19617		310			8762.5		

Village wise LPCD delivery

S.No	Village name	Populat	LPCD
	-	·	
1	Chinnakothiliki	2151	35
2	Sajeevapuram	200	31
3	Peddakothiliki	1687	44
4	Joharapuram	615	27
5	Gangavaram	524	32
Zone I	Sub Total	5177	36.6
6	Poolachinta	1409	30
	Sub Total	6586	43
7	Soganur	1660	31
	Sub Total	8246	34.3
8	Tskalur	2159	0
Zone II	Sub Total	5228	17.8
Schem	G.Total	10405	27

At a Glance comparison

Details	Capacit	Pumpe	Delivery			
R/w Vol Cum	26784	23436	8763			
C/w Vol Cum	21665	19617	8763			
R/w LPCD 83.0 72.7 34.3						
C/w LPCD	67.2	60.8	34.3			

Details	Capacit	Pumpe	Delivery	c/w/cap
R/w Vol Cum	100%	88%	33%	
C/w Vol Cum	100%	91%	40%	73%
R/w LPCD	100%	88%	41%	
C/W LPCD	100%	91%	51%	

1

June 96

Scheme :	Chinnakothiliki		District :
NGO :	HERSELF	atu. Afrik	Month :

	Pumping capacity Vs Pumped Volume Vs Delivery at the village (R/W)										
Infrastru							Actually delivered at				
	PRED (Details F	PRED (r/	<u>~)</u>	Village (NGO)				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/		Capa	Hrs/day	pump	1	name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
54	16	25920	54	12	30	19440	Ckothili	60	1	30	2250
					}		Sajeeva	5	1	30	187.5
							Pkthili	60	1	27	2025
							Johara	15	1	21	393.75
						. .	Gvarm	15	1	22	412.5
							·	155			5268.8
						ļ	Pchinta	35	1	27	1181.3
• •							Soganu	60	1	19	1425
						[Tskalur	60	1	0	0
								155			2606.3
Total		25920				19440		310	<u> </u>		7875
Pumpin	Pumping capacity Vs Pumped Volume Vs Delivery at the village (C/W)										
1				100000	A CONTRACTOR OF A CONTRACTOR A CONT		village (
Infrastru	cture			Actually	Pumped		Village (Actually	delivered	d at	}
Infrastru Capacity	cture / PRE D (c/w)		Actually Details F	Pumped PRED			Actually Village ((NGO)		
Capacity Pump	cture / PRE D (Avg.		Pump	Actually Details F Avg.	Pumped PRED Days		Village	Actually Village (r/v	(NGO) No	Days	Voi
Capacity Pump Capa	cture / PRE D (c/w) Vol	Pump Capa	Actually Details F	Pumped PRED	Vol		Actually Village (r/v cap	(NGO) No Fillings/		
Capacity Pump Capa Cum/hr	cture / PRE D (Avg. Hours/	c/w) Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/	Pumped PRED Days pump	Vol Cu.m	Village name	Actually Village (r/v cap Cu.m	(NGO) No	Days filled	Cu.m
Capacity Pump Capa	cture / PRE D (Avg.	c/w) Vol	Pump Capa	Actually Details F Avg.	Pumped PRED Days	Vol	Village name Ckothili	Actually Village (r/v cap Cu.m 60	(NGO) No Fillings/	Days filled 30	Cu.m 2250
Capacity Pump Capa Cum/hr	cture / PRE D (Avg. Hours/	c/w) Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/	Pumped PRED Days pump	Vol Cu.m	Village name Ckothili Sajeeva	Actually Village (r/v cap Cu.m 60 5	NGO) No Fillings/ Day	Days filled 30 30	Cu.m 2250 187.5
Capacity Pump Capa Cum/hr	cture / PRE D (Avg. Hours/	c/w) Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/	Pumped PRED Days pump	Vol Cu.m	Village name Ckothili Sajeeva Pkthili	Actually Village (r/v cap Cu.m 60 5 60	NGO) No Fillings/ Day 1	Days filled 30 30 27	Cu.m 2250 187.5 2025
Capacity Pump Capa Cum/hr	cture / PRE D (Avg. Hours/	c/w) Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/	Pumped PRED Days pump	Vol Cu.m	Village name Ckothili Sajeeva Pkthili Johara	Actually Village (cap Cu.m 60 5 60 15	NGO) Fillings/ Day 1 1 1	Days filled 30 27 21	Cu.m 2250 187.5 2025 393.75
Capacity Pump Capa Cum/hr	cture / PRE D (Avg. Hours/	c/w) Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/	Pumped PRED Days pump	Vol Cu.m	Village name Ckothili Sajeeva Pkthili	Actually Village (cap Cu.m 60 5 60 15 15	NGO) No Fillings/ Day 1 1 1	Days filled 30 30 27	Cu.m 2250 187.5 2025 393.75 412.5
Capacity Pump Capa Cum/hr	cture / PRE D (Avg. Hours/	c/w) Vol Cu.m	Pump Capa Cu.m 22.38	Actually Details F Avg. Hours/ 12	Pumped PRED Days pump 30	Vol Cu.m	Village name Ckothili Sajeeva Pkthili Johara Gvarm	Actually Village (r/v cap Cu.m 60 5 60 15 15 155	NGO) Fillings/ Day 1 1 1	Days filled 30 30 27 21	Cu.m 2250 187.5 2025 393.75 412.5 5268.8
Capacity Pump Capa Cum/hr	cture / PRE D (Avg. Hours/	c/w) Vol Cu.m	Pump Capa Cu.m	Actually Details F Avg. Hours/	Pumped PRED Days pump	Vol Cu.m	Village name Ckothili Sajeeva Pkthili Johara	Actually Village (cap Cu.m 60 5 60 15 15	NGO) Fillings/ Day 1 1 1	Days filled 30 27 21 22 27	Cu.m 2250 187.5 2025 393.75 412.5 5268.8 1181.3
Capacity Pump Capa Cum/hr 22.38	cture / PRED (Avg. Hours/ 16	c/w) Vol Cu.m 10742.4	Pump Capa Cu.m 22.38	Actually Details F Avg. Hours/ 12	Pumped PRED Days pump 30	Vol Cu.m 8056.8	Village name Ckothili Sajeeva Pkthili Johara Gvarm	Actually Village (r/v cap Cu.m 60 5 60 15 15 155	NGO) Fillings/ Day 1 1 1 1 1	Days filled 30 27 21 22	Cu.m 2250 187.5 2025 393.75 412.5 5268.8
Capacity Pump Capa Cum/hr 22.38	cture / PRED (Avg. Hours/ 16	c/w) Vol Cu.m 10742.4	Pump Capa Cu.m 22.38	Actually Details F Avg. Hours/ 12	Pumped PRED Days pump 30	Vol Cu.m 8056.8	Village name Ckothili Sajeeva Pkthili Johara Gvarm Pchinta	Actually Village (cap Cu.m 60 5 60 15 15 155 35	NGO) Fillings/ Day 1 1 1 1 1	Days filled 30 27 21 22 27	Cu.m 2250 187.5 2025 393.75 412.5 5268.8 1181.3 1425 0
Capacity Pump Capa Cum/hr 22.38	cture / PRED (Avg. Hours/ 16	c/w) Vol Cu.m 10742.4	Pump Capa Cu.m 22.38	Actually Details F Avg. Hours/ 12	Pumped PRED Days pump 30	Vol Cu.m 8056.8	Village name Ckothili Sajeeva Pkthili Johara Gvarm Pchinta Soganu	Actually Village (cap Cu.m 60 5 60 15 15 155 35 60	NGO) Fillings/ Day 1 1 1 1 1 1 1	Days filled 30 27 21 22 27 27 19	Cu.m 2250 187.5 2025 393.75 412.5 5268.8 1181.3

Pumping capacity Vs Pumped Volume Vs Delivery at the village (R/W)

Village wise LPCD delivery

S.No	Village name	Populat	LPCD	
1	Chinnakothiliki	2151	34.9	
2	Sajeevapuram	200	31.3	
3	Peddakothiliki	1687	40.0	
4	Joharapuram	615	21.3	
5	Gangavaram	524	26.2	
Zone I	Sub Total	5177	32.8	
6	Poolachinta	1409	27.9	
7	Soganur	1660	28.6	
	Sub Total	8246	31,8	
8	Tskalur	2159	0.0	
Zone II	Sub Total	5228	16.6	
Schem	G.Total	10405	25.2	

At a Glance comparison

At a Glance co									
Details	Capacit	Pumpe	Delivery						
R/w Vol Cum	25920	19440	7875						
C/w Vol Cum	21307	16364	7875						
R/w LPCD	83.0	62.3	31.8						
C/w LPCD	68.3	52.4	31.8						
Comparison in percentages									
Details	Capacit	Pumpe	Deliverv						

Details	Capacit	Pumpe	Delivery	%capac
R/w Vol Cum	100%	75%	30%	
C/w Vol Cum	100%	77%	37%	63%
R/w LPCD	100%	75%	38%	
C/W LPCD	100%	77%	47%	

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		District :	Kurnool
NGO: HERSEL	F	Month :	July,96

Pumping capacity Vs Pumped Volume Vs Delivery at the village (R/W)

Infrastru	cture		Actually Pumped				Actually delivered at				
Capacity	apacity PRED (r/w)			Details P	RED (r/v	v)		Village (NGO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/d		Capa	Hrs/day	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
54	16	26784	-54	10	31	16740	Ckothili	60	1	31	2325
							Sajeeva	5	1	27	168.75
							Pkthili	60	1	27	2025
							Joharapu	15	1	21	393.75
							Gvarm	15	1	18	337.5
								155			5250
							Pchinta	35	1	31	1356.3
							Soganur	60	1	21	1575
1							Tskalur	60	1	0	0
1				l		· _		155			2931.3
Total		26784				16740		310			8181.3
Pumpin	ig capaci	ty Vs Pu	mped V	olume Vs	Deliver	y at the	village (C	/W)			·

Infrastru	cture			Actually	Pumped		Actually delivered at				
Capacity	Capacity PRED (c/w)			Details P	RED			Village (illage (NGO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/d		Capa	Hours/	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day	_	Cu.m
22.38	16	11100	22,38	13	31	9 019	Ckothili	60	1	31	2325
							Sajeeva	5	1	27	168.75
							Pkthili	60	1	27	2025
							Joharapu	15	1	21	393.75
							Gvarm	15	1	18	337.5
								155			5250
21.3	16	10565	21.3	9	31	5943	Pchinta	35	1	31	1356.3
)							Soganur	60	1	21	1575
					1		Tskalur	60	1 1	0	0
1	}							155	1	<u> </u>	2931.3
Total		21665				14962		310			8181.3

Village wise LPCD delivery

S.No	Village name	Populat	LPCD
	Chinnakothiliki	2151	35
2	Sajeevapuram	200	27
3	Peddakothiliki	1687	39
4	Joharapuram	615	21
5	Gangavaram	524	21
Zone I	Sub Total	5177	32.7
6	Poolachinta	1409	31
7.	Soganur	1660	31
	Sub total	8246	32.0
8	Tskalur	2159	0
Zone II	Sub Total	5228	18.1
Schem	G.Total	10405	25

At a Glance comparison

Details	Capacit	Pumpe	Delivery	
R/w Vol Cum	26784	16740	8181	
C/w Vol Cum	21665	14962	8181	
R/W LPCD	83.0	51.9	32.0	
C/w LPCD	67.2	46.4	32.0	
Comparison In	percentag	es		
Details	Capacit	Pumpe	Delivery	c/w/cap
R/w Vol Cum	100%	63%	31%	
C/w Vol Cum	100%	69%	38%	56%
R/w LPCD	100%	63%	39%	
C/w LPCD	100%	69%	48%	

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Scheme :	Chinnakothiliki	District :	Kurnool
NGO :	HERSELF	Month :	Aug 96

Pumpin	g capac	ity Vs Pı	umped V	'olume V	s Delive	ry at the	village	(R/W)			÷.,
Infrastru	cture			Actually	Pumped	Í	{	Actually	delivered	d at	
Capacit	y PRED (r/w)		Details P	PRED (r/\	N)		Village ((NGO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/		Capa	Hrs/day	pump		name	сар	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
54	16	26784	54	9.5	31	15903	Ckothili	60	1	30	2250
	.						Sajeeva	5	1	30	187.5
					(. I		Pkthili	60	1	25	1875
			· ·				Johara	15	1	2 2	412.5
							Gvarm	15	1	16	300
L								155			5025
							Pchinta	35	1	31	1356.3
							Soganu	60	1	8	600
		·					Tskalur	60	1	0	0
								155			1956.3
Total		26784				15903		310			6981.3
Pumpin	g capaci	ity Vs Pu	mped V	olume V	s Delive	ry at the	village ((C/W)			
Infrastru	nfrastructure			Actually Pumped				Actually	delivered	i at	
Capacity	PRED (c/w)		Details F	RED			Village (NGO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/		Capa	Hours/	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
22.38	16	11100	22.38	9	31	6244	Ckothili	60	1	30	2250

Village wise LPCD delivery

16

10565

21665

21.3

10.5

31

6933

13177

21.3

Total

3

	Mige El OD delle	<u>+.j</u>	
S.No	Village name	Populat	LPCD
			ل
1	Chinnakothiliki	2151	34
2	Sajeevapuram	200	30
3	Peddakothiliki	1687	36
4	Joharapuram	615	22
5	Gangavaram	524	18
Zone I	Sub Total	5177	31.3
6	Poolachinta	1409	31
	Sub Total	6586	34
7	Soganur	1660	9
	Total	8246	27
8	Tskalur	2159	0
Zone II	Sub Total	5228	11.3
Schem	G.Total	10405	21

At a Glance comparison

Sajeeva

Pkthili

Johara

Gvarm

Pchinta

Soganu

Tskalur

Details	Capacit	Pumpe	Delivery
R/w Vol Cum	26784	15903	6981
C/w Vol Cum	21665	13177	6861
R/w LPCD	83.0	49.3	26.8
C/w LPCD	67.2	40.9	26.8

5

60

15

15

155

35

60

60

155

310

30

25

22

16

31

8

0

1

1

1

1

1

1

1

187.5

1875

412.5

300

5025

480

0

1356.3

1836.3 6861.3

Comparison in percentages Details Capacit Pumpe Delivery cw/cap R/w Vol Cum 100% 26% 59% C/w Vol Cum 100% 32% 61% 49% R/w LPCD 100% 59% 32% C/w LPCD 100% 61% 40%

Scheme : NGO :

Chinnakothiliki HERSELF District : Month ;

Kurnool Sep 96

Pumping capacity Vs Pumped Volume Vs Delivery at the village (R/W)

Infrastru	cture			Actually	Pumped			Actually	delivered	d at	
Capacity	PRED (r/w)	Details PRED (r/w)				Village (NG <u>O)</u>		· ·	
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/		Capa	Hrs/day	pump		name	cap	Fillings/	filled	
Cum/hr	_	Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
54	16	25920	54	10	30	16200	Ckothili	60	1	30	2250
							Sajeeva	5	1	30	187.5
						:	Pkthili	60	1	30	2250
	1 ·						Johara	15	1	26	487.5
							Gvarm	15	1	30	562.5
		Ì						155			5737.5
							Pchinta	35	1	27	1181.3
1							Soganu	60	1	15	1125
							Tskalur	60	1	0	0
								155			2306.3
Total		25920				16200		310			8043.8
Pumpir	ng capac	ity Vs P	umped	/olume V	's Delive	ry at the	• village	(C/W)			
Infrastru	ucture			Actually Pumped Actually delivered			d at				

Infrastru	cture			Actually	Pumped			Actually	delivered	d at	_
Capacity	PRED (c/w)		Details P	RED			Village (NGO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/		Capa	Hours/	pump		name	сар	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
22.38	16	10742	22.38	10.26	30	6888.6	Ckothili	60	1	30	2250
							Sajeeva	5	1	30	187.5
	14						Pkthili	60	1	30	2250
							Johara	15	1	.26	487.5
1							Gvarm	15	1	30	562.5
					· ·			155			5737.5
21.3	16	10565	21.3	10	30	6390	Pchinta	35	1	27	1181.3
	1	Į	{		1		Soganu	60	1	15	1125
	N						Tskalur	60	1	0	0
								155			2306.3
Total		21307				13279		310		T	8043.8

Village wise LPCD delivery

S.No	Village name	Populat	LPCD
1	Chinnakothiliki	2151	34.9
2	Sajeevapuram	200	31.3
3	Peddakothiliki	1687	44.5
. 4	Joharapuram	615	26.4
5	Gangavaram	524	35.8
Zone I	Sub Total I	5177	35.8
6	Poolachinta	1409	27.9
7	Soganur	1660	22.6
	Sub Total II	8246	32.5
8	Tskalur	2159	0.0
Zone II	Sub Total III	5228	14.7
Schem	G.Total	10405	25.8

Capacit	Pumpe	Delivery
25920	16200	8044
21307	13279	8044
83.0	51.9	32.5
68.3	42.5	32.5
	25920 21307 83.0	21307 13279 83.0 51.9

Details	Capacit	Pumpe	Delivery	c/ w/cap
R/w Vol	100%	63%	31%	
C/w Vol	100%	62%	38%	51.2%
R/w LP	100%	63%	39%	-
C/W LPCD	100%	62%	48%	

Anne	xure	3.4

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Scheme :	Manchala
NGO :	HERSELF
Population (96) :	18630

Trial run on Manchala Scheme District :

Month :

Kurnool Apr, 96

Pumping	capacity	Vs Pum	ped Volume	Vs Delivery	/ at the villag	e (R/W)
			the state of the s		the second s	

Infrastructu	ire ·		· . ·	Actually Pu	imped			Actually d	elivered at		
Capacity Pl	RED (r/w)	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Details PRE	ED (r/w)		·	Village (N	GO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Сара	Hours/day		Capa	Hrs/day	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
54	16	25920	54	10.75	- 30	17415	Mantralayam	60	1	26	1950
	· ·						Chetnahelli	45	1	: 29	1631.25
	\	1.1					Nadikirawadi	30	1	23	862.5
		1.1			· · · ·			135			4443.75
	[]	· · · ·					Ibrahimpur	90	1	0	0
							Kalludevakunta	20	1	30	750
Į							Machapuram	35	.1	13	568.75
							Chilakaladona	90	1	. 29	3262.5
<u> </u>						· · · · ·		235			4581.25
Total		25920				17415		370			9025

Pumping capacity Vs Pumped Volume Vs Delivery at the village (C/W)

Infrastructu	re			Actually Pumped Actually delivered at			elivered at				
Capacity PF	RED (c/w)			Details PRE	D		<u>۱ ۱</u>	/illage (NG	GO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Сара	Hours/day		Capa	Hours/day	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu,m
31.5	16	15120	31.5	9.25	30	8741.25	Mantralayam	120	1	26	3900
				1 1			Chetnahelli	45	1	29	1631.25
				[]			Nadikirawadi	30	1	,53	862.5
								195			6393.75
42	16	20160	42	6.25	30	7875	Ibrahimpur	90	1	0	0
				1 1			Kalludevakunta	20] 1]	30	750
	- A - A - A - A - A - A - A - A - A - A						Machapuram	35	1 1	13	568,75
				1 1			Chilakaladona	90	1	29	3262.5
	·		·					235			4581.25
		35280				16616,3		430			10975

Village wise LPCD delivery

S.N	0	Village name	Populat	LPCD
	1	Mantralayam	6478	20.1
	2	Chetnahelli	1784	30.5
	3	Nadikirawadi	1368	21.0
Zone I			9631	22.1
	4	Kalludevakunta	1410	17.7
	5	Machapuram	1770	10.7
	6	Chilakaladona	3227	33.7
Zone II			6406	23.8
			16037	22.8
	7	Ibrahimpur	2593	0.0
			18630	19,6

At a Glance comparison

Details	Capacity	Pumped	Delivery
R/w Vol Cum	25920	17415	9025
C/w Vol Cum	35280	16616.3	10975
R/w LPCD	46	31	23
C/w LPCD	63	30	23

Details	Capacity	Pumped	Delivery	c/w/cap
R/w Vol Cum	100%	67%	35%	
C/w Vol Cum	100%	47%	31%	64%
R/w LPCD	100%	67%	49%	
C/w LPCD	100%	47%	36%	

Village level reservoir capacities to be verified ?

	-	rial run on Manchala Scheme	
Scheme :	Manchala	District :	
NGO :	HERSELF	Month :	

NGO : HERSELF Population (96) : 18630 Kurnool May, 96

Pumping capacity Vs Pumped Volume Vs Delivery at the village (R/W)

Infrastruct	ure			Actually Pu	imped	Actually delivered at			Actually delivered at		
Capacity F	RED (r/w)		Details PRED (r/w)			<u> </u>	Village (NGO)				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/day	ł	Capa	Hrs/day	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
54	16	26784	54	15	31	25110	Mantralay	120	1	28	4200
							Chetnahel	45	1	29	1631.25
							Nadikiraw	30	1	31	1162.5
	l ·							195			6993.75
			1				Ibrahimpu	90	1	0	0
							Kalludeva	20	1	29	725
							Machapur	35	1	0	0
							Chilakala	90	1	2	225
								235			950
Total		26784				25110		430			7943.75

Pumping capacity Vs Pumped Volume Vs Delivery at the village (C/W)

Infrastructi	ure	[Actually Pumped Actually delivered at							
Capacity P	RED (c/w)			Details PRE	D			Village (NG	30)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/day		Capa	Hours/day	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
31.5	16	15624	31.5	9.75	31	9520.88	Mantralay	120	1	28	4200
	.						Chetnahel	45	1	29	1631.25
							Nadikiraw	30	1	31	_1162.5
								195			6993.75
42	16	20832	42	6.75	31	8788.5	lbrahimpu	90	1	Ó	0
				1 1			Kalludeva	20	-1	29	725
	1 1			1 1			Machapur	35	1	0	0
						_	Chilakala	90	1	2	225
								235			950
		36456				18309.4		430			7943.75

Village wise LPCD delivery

S.No	Village name	Populat	LPCD
1	Mantralayam	6478	20.9
2	Chetnahelli	1784	29.5
3	Nadikirawadi	1368	27.4
Zonel		9630	23.4
4	Kalludevakunta	1410	16.6
5	Machapuram	1770	0.0
6	Chilakaladona	3227	2.2
Zone II		6407	4.8
Zone I+II		16037	16.0
7	Ibrahimpur	2593	0.0
Scheme		18630	13.8

At a Glance comparison

Details	Capacity	Pumped	Delivery
R/w Vol Cum	26784	25110	7943.75
C/w Vol Cum	36456	18309.4	7943.75
R/w LPCD	46.4	43.5	16.0
C/w LPCD	63.1	31.7	16.0

Details	Capacity	Pumped	Delivery	c/w/cap
R/w Vol Cum	100%	94%	30%	
C/w Vol Cum	100%	50%	22%	68%
R/w LPCD	100%	94%	34%	
C/w LPCD	100%	50%	25%	

Pumping capacity Vs Pumped Volume Vs Delivery at the village (C/W) Trial run on Manchala Scheme

Scheme :	Manchala	District :	Kurnool
NGO :	HERSELF	Month :	Jun 96
Population (96) :	18630		

Pumping capacity Vs Pumped Volume Vs Delivery at the village (R/W)

Infrastruct	ure			Actually Pu	umped		<u> </u>	Actually d	elivered at		- <u></u>
Capacity F	PRED (r/w)			Details PRI	ED (r/w)			Village (N	GO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/day		Сара	Hrs/day	pump		name	cap	Fillings/	filled	
Cum/hr		Çu,m	Cu.m			Cu.m		Cu.m	Day		Cu.m
54	16	25920	54	12	30	19440	Mantralay	120	1	25	3750
							Chetnahel	45	1	27	1518.75
	I. I						Nadikiraw	30	1	16	600
	! !							195			5868.75
							Ibrahimpu	90	1	0	0
							Kalludeva	20	1	25	625
							Machapur	35	1	9	393.75
	[]						Chilakala	90	1	- 24	2700
								235		اشتان باروريا كالت	3718.75
Total		25920				19440		430			9587.5

Pumping capacity Vs Pumped Volume Vs Delivery at the village (C/W)

Infrastruct	ure			Actually Pu	mped			Actually d	elivered at		
Capacity P	RED (c/w)			Details PRE	D	<u>.</u>		Village (N	GO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Сара	Hours/day		Capa	Hours/day	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
31.5	16	15120	31.5	8.5	30	8032,5	Mantralay	120	1	25	3750
							Chetnahel	45	1	27	1518.75
							Nadikiraw	30	1	16	600
								195			5868.75
42	16	20160	42	6.5	30	8190	Ibrahimpu	90	1	0	0
				}. }	1		Kalludeva	20	1	25	625
							Machapur	35	1	9	393.75
		· ·					Chilakala	90	1	24	2700
								235			3718.75
		35280				16222.5		430			9587.5

Village wise LPCD delivery

S.No	Village name	Populat	LPCD
1	Mantralayam	6478	19.3
2	Chetnaheili	1784	28.4
3	Nadikirawadi	1368	14.6
Zone I		9630	20.3
4	Kalludevakunta	1410	14.8
5	Machapuram	1770	7.4
6	Chilakaladona	3227	27.9
Zone II		6407	19.3
		16037	19.9
7	Ibrahimpur	2593	0.0
		18630	17.2

At a Glance comparison

Details	Capacity	Pumped	Delivery
R/w Vol Cum	25920	19440	9587.5
C/w Vol Cum	35280	16222.5	9587.5
R/w LPCD	46	35	20
C/w LPCD	63	29	20

Details	Capacity	Pumped	Delivery	c/w/cap
R/w Vol C	100%	75%	37%	
C/w Vol C	100%	46%	27%	63%
R/w LPCD	100%	75%	43%	
C/w LPCD	100%	46%	32%	

Trial run on Manchala Scheme

Scheme :	Manchala	District :	Kurnool	
NGO :	HERSELF	Month :	Jul,96	
Population (96) :	18630		the second second	

Pumping capacity Vs Pumped Volume Vs Delivery at the village (R/W)

nfrastructu	re			Actually Pu	mped		Actually delivered at				
Capacity PF	RÉD (r/w)			Details PRE	D (r/w)			Village (NC	SO)		·
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Voi
Capa	Hours/day		Capa	Hrs/day	pump		лате	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m	· · · · · ·	Cu.m	Day		Cu.m
54	16	26784	54	12.5	31	20925	Mantralayam	120	1	24	3600
	1						Chetnahelli	45	1	31	1743.75
							Nadikirawadi	30	1	31	1162.5
								195			6506.25
	1						lbrahimpur	90	1	0	0
							Kalludevakunta	20	1	30	750
	1 I						Machapuram	35	1	9	393.75
							Chilakaladona	/ 90	1	28	3150
	Į							235			4293.75
Total		26784				20925		430	r – T		10800

Pumping capacity Vs Pumped Volume Vs Delivery at the village (C/W)

nfrastructu	re internet			Actually Pur	mped			Actually de	elivered at		
Capacity PF	RED (c/w)			Details PRE	D			Village (NC	GO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/day		Capa	Hours/day	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Çu.m	Day		Cu.m
31.5	16	15624	31.5	9.75	31	9520.88	Mantralayam	120	1	24	3600
	1						Chetnahelli	45	1	31	1743.75
							Nadikirawadi	30	1	31	1162.5
								195			6506.25
42	16	20832	42	8	31	10416	lbrahimpur	90	1	0	0
	\$						Kalludevakunta	20	1 1	30	750
	1 1			1			Machapuram	35	1	9	393.75
	1 1			1 1			Chilakaladona	90	1	28	3150
							-	235			4293.75
		36456				19936.9		430			10800

Village wise LPCD delivery

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S.No	Village name	Populat	LPCD
	Mantralayam	6478	17.9
2	Chetnahelli	1784	31.5
3	Nadikirawadi	1368	27.4
Zone I		9631	21.8
4	Kalludevakunta	1410	17.2
5	Machapuram	1770	7.2
6	Chilakaladona	3227	31.5
Zone II		6406	21.6
Zone I+II		16037	21.7
7	Ibrahimpur	2593	0.0
Scheme		18630	18.7

At a Glance comparison

Details	Capacity	Pumped	Delivery
R/w Vol Cum	26784	20925	10800
C/w Vol Cum	36456	19936.9	10800
R/w LPCD	46.4	36.2	21.7
C/w LPCD	63.1	34.5	21.7

Details		Pumped	Delivery	c/w/cap
R/w Vol Cum	100%	78%	40%	
C/w Vol Cum	100%	55%	30%	74.4%
R/w LPCD	100%	78%	47%	
C/w LPCD	100%	55%	34%	

ri	al	run	on	Manch	nala	Scr	1eme

Scheme :	Manchala					Distric
NGO :	HERSELF		1.1			Mont
Population (96)	18630					

Scheme :	Manchala					District :		
NGO :	HERSELF		1			Month :		
Population (96) :	18630							

Pumping	capacity Va	Pumped \	/olume Vs	Delivery at	the village	• (R/W)					
Infrastruct	ure			Actually P	umped			Actually d	elivered at		
Capacity F	RED (r/w)			Details PR	ED (r/w)			Village (N	30)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vəl	Village	r/v	No	Days	Vol
Сара	Hours/day		Сара	Hrs/day	pump		name	сар	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day 🛀 🔄		Cu.m
54	16	26784	54	13,5	31	22599	Mantralay	120	1	27	4050
							Chetnahel	45	. 1	26	1462.5
1		14					Nadikiraw	30	1	16	600
}	1 1							195			6112.5
ł		•					Ibrahimpu	90	1	0	0
							Kalludeva	20	1	26	650
							Machapur	35	1	19 [.]	831.25
					ана — ¹⁶		Chilakala	90	1	25	2812.5
				1. ja		· · ·		235			4293.75
Total		26784				22599		430			10406.3

Pumping capacity Vs Pumped Volume Vs Delivery at the village (C/W)

Infrastructi	ure			Actually Pur	nped	<u></u>		Actually d	elivered at	Days Vol filled Cu.m 27 4050 26 1462.5 16 600 6112.5						
Capacity P	RED (c/w)			Details PRE	<u> </u>	Village (NGO)					-					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol					
Capa	Hours/day		Capa	Hours/day	pump		пате	сар	Fillings/	filled						
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m					
31.5	16	15624	31.5	10	31	9765	Mantralay	120	1	27	4050					
				1	1		Chetnahel	45	1]	26	1462.5					
							Nadikiraw	30	1	16	600					
								195			6112.5					
42	16	20832	42	8	31	10416	Ibrahimpu	90	1	0	0					
							Kalludeva	20	{ 1	26	650					
							Machapur	35	1	19	831.25					
		[[]			Chilakala	90		25	2812.5					
								235			4293.75					
		36456				20181		430			10406.3					

Village wise LPCD delivery

S.No	Village name	Populat	LPCD
1	Mantralayam	6478	20.2
2	Chetnahelli	1784	26.4
3	Nadikirawadi	1368	14.1
Zone I		9630	20.5
4	Kalludevakunta	1410	14.9
5	Machapuram	1770	15.1
6	Chilakaladona	3227	28.1
Zone II		6407	21.6
Zone I+II		16037	20.9
7	Ibrahimpur	2593	0.0
Scheme		18630	18.0

At a Glance comparison

Details	Capacity	Pumped	Delivery
R/w Vol Cum	26784	22599	10406.3
C/w Vol Cum	36456	20181	10406.3
R/w LPCD	46.4	39.1	20.9
C/w LPCD	63.1	34.9	20.9

Kurnool

Aug 96

Comparison in percentages

Oetails	Capacity	Pumped	Delivery	c/w/cap
R/w Vol C	100%	84%	39%	
C/w Vol C	100%	55%	29%	75%
R/w LPCD	100%	84%	45%	
C/w LPCD	100%	55%	33%	

	Tr	rial run on Mar	nchala Scheme		
Scheme :	Manchala		District :	Kurnool	1
NGO :	HERSELF		Month :	Sep 96	
Population (96) :	18630				

Pumping capacity Vs Pumped Volume Vs Delivery at the village (R/W)

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Infrastructi	ure			Actually Pu	imped		A	Actually d	elivered at		
Capacity P	RED (r/w)			Details PR	<u>D (r/w)</u>		V	/illage (N	GO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/day		Capa	Hrs/day	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		Cu.m	Day		Cu.m
54	16	25920	54	10	30	16200	Mantralay	120	1	28	4200
							Chetnahel	45	1	27	1518.75
							Nadikiraw	30	1	19	712.5
	·							195			6431.25
						-	Ibrahimpu	90	1	0	0
							Kalludeva	20	1	27	675
							Machapur	35	1 1	27	1181.25
		1					Chilakala	90	1	8	900
								235			2756.25
Total		25920				16200		430			9187.5

Pumping capacity Vs Pumped Volume Vs Delivery at the village (C/W)

nfrastruct	ure			Actually Pu	mped		/	Actually de	elivered at		
Capacity F	PRED (c/w)			Details PRE	D		\	/illage (NC	GO)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Village	r/v	No	Days	Vol
Capa	Hours/day		Capa	Hours/day	pump		name	cap	Fillings/	filled	
Cum/hr		Cu.m	Cu.m			Cu.m		<u> C</u> u.m	Day		Cu.m
31.5	16	15120	31.5	10.2	30	9639	Mantralay	120	1	28	4200
							Chetnahel	45	1	27	1518,75
							Nadikiraw	30	1	19	712.5
				11				195			6431.25
42	16	20160	42	7.86	30	9903.6	Ibrahimpu	90	1	0	(
							Kalludeva	.20	1	27	675
				1 1			Machapur	35	1	27	1181.25
							Chilakala	90	1	8	900
	\\							235			2756.25
		35280				19542.6		430			9187.5

Village wise LPCD delivery

S.No	Village name	Populat	LPCD
1	Mantralayam	6478	21.6
2	Chetnahelli	1784	28.4
3	Nadikirawadi	1368	17.4
Zone I		9630	22.3
4	Kalludevakunta	1410	16.0
5	Machapuram	1770	22.2
6	Chilakaladona	3227	9.3
Zone II		6407	14.3
	Sub Total	16037	19,1
7	Ibrahimpur	2593	0.0
		18630	16.4

At a Glance comparison

Details	Capacity	Pumped	Delivery
R/w Vol Cum	25920	16200	9187.5
C/w Vol Cum	35280	19542.6	9187.5
R/w LPCD	46	29	19
C/w LPCD	63	35	19

Details	Capacity	Pumped	Delivery	c/w/cap
R/w Vol C	100%	63%	35%	
C/w Vol C	100%	55%	26%	75%
R/w LPCD	100%	63%	41%	
C/w LPCD	100%	55%	30%	

Annexure 3.5

Trial run on Hanawal Scheme

Sche	Scheme : Hanawal			al D			t:	Kurnool	
						Month	:	Apr,96	
.									
	structi		Vs Pum	Actuali			LPCD	totoile	
		RED (r/		Details	-	-		-014/13	
	Avg.		Pump	Avg.	Days		Popul	Сар	Act
Сар	Hour		Сара	Hrs/da					<u> </u>
Cum	i ioui	Cu.m	Cu.m	1.13,44	pant	Cu.m		LPCD	LPCD
66	16	31766	66.18	<u> </u>	30	00	7694		
		01100	00.10				1004		
	1								
				1					
				1					
				<u> </u>	<u> </u>		5469		
	1			[0403	i	
							}		
Total		31766		<u> </u>			13163	80,44	
	L	apacity	Vs Pum	ped Vo	lume	(C/W)			1
Infras	structi	ire		Actuall	v Pum	ped	LPCD a	letails	<u> </u>
		RED (c/		Details PRED					
	Avg.	Vol	Pump		Days		Popul	Сар	Act
Сар	Hour		Сара	Hours/					
Cum		Cu.m	Cu.m		ľ	Cu.m		LPCD	LPCD
13	16	6221	12.96	2.5	30	972	7694	26.95	4.21
	ŀ				{ ·				
	- I								
33	16	15898	33.12	3.5	30	3478	5469	96,90	21.20
Total		22118				4450	13163	56.01	11.27

			-
	Capaci	Pumpe	
R/w Vol Cu	31766	NA	
C/w Vol C	22118	4449.6	
R/w LPCD	80.4		
C/w LPCD	56.0	11.3	
Compariso	n in pe	rcentage	s
Details	Capaci	Pumpe	cw/cap
R/w Vol Cu	100%		
C/w Vol C	100%	20%	14%
R/w LPCD	100%		
C/w LPCD	100%	20%	

	Trial r	un on Hanav	wal Scheme
Scheme :	Hanawal		District :
		×	Month :

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Kurnool May 96

Pumping capacity Vs Pumped Volume (R/W)										
nfrastru	cture	•		Actually	Pumped					
Capacity	PRED (/w)		Details P	RED (r/w					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol				
Capa	Hours/d	(Capa	Hrs/day	pump			Сар	Act	
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
66.18	16	32825	66.18		31		7694			
							5469			
Total		32825					13163	80.44		
Pumpin	g capac	ity Vs Pu	mped V	olume (
Infrastru	icture				Pumped	<u> </u>	(
<u> </u>	y PRED (c/w)		Details F	RED	·				
Pump	Avg.	Vol	Pump	Avg.	Days	<u></u> Voi	1	r		
Capa	Hours/d		Capa	Hours/d	pump			Сар	Act	
Cum/hr	<u> </u>	Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
12.96	16	6428.2	12.96	4.5	31	1807.9	7694	28.95	7.58	
						ļ				
				ļ				1	1	
	\					\				
1				[: :.			
l			[
33.12	16	16428	33.12	4	31	4106.9	5469	96.90	24.22	
-					1			1		
	1			[
		1	1	1	1	1	ł	1	1	
	1	1	1	1		ł		1		
Total		22856				5914.8	13163	56.01	14.50	

At a Glance comparison									
Details	Capacit	Pumpe							
R/w Vol Cum	32825								
C/w Vol Cum	22856	5914.8							
R/w LPCD	80.4								
C/w LPCD	56.0	14.5							
Comparison in	percenta	ges	, 						
Details	Capacit	Pumpe							
R/w Vol Cum	100%								
C/w Vol Cum	100%	26%	18%						
R/w LPCD	100%								
C/w LPCD	100%	26%							

Trial run on Hanawal Scheme District :

Month :

Scheme	:	Hanawal
Scheme	:	Hanawal

Kurnool Jun,96

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	a cabac	ity vs PL	impea v	olume (R/W)				
nfrastru	ucture			Actually	Pumpeo	1]	0.00 S S 1000 1	
Capacit	y PRED ((r/w)		Details F		w)	l		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Сара	Hours/d		Capa	Hrs/day	pump			Сар	Act
Cum/hr		Cu.m_	Cu.m		_	Cu.m	Popul	LPCD	LPCD
66.18	16	31766	66,18		30		7694		
						l I	l		
			· ·			ļ	ł	ļ	Į
	· ·								i i
							5469		
	[Į	l
						}			
								1	
Total		31766					13163	80.44	
Pumpin	g capaci	ity Vs Pu	mped V	olume (C/W)				
Infrastru				Actually	Pumpec	1	ĺ		
Capacity	y PRED (c/w)		Details F	RED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Сара	Hours/d		Сара	Hours/d	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
12.96	16	6220.8	12.96	2.5	30	972	7694	25.95	4.21
						`	9		
					ļ	}			
•								· ·	
					ļ			1	
33.12	16	15898	33.12	3	30	2980.8	5469	96.90	18,17
33.12	16	15898	33.12	3	30	2980.8	5469	96.90	18,17
33.12	16	15898	33.12	3	30	2980.8	5469	96.90	18.17
33.12	16	15898	33.12	3	30	2980.8	5469	96.90	18,17

Details	Capacit	Pumpe	
R/w Vol Cum	31766	NA	
C/w Vol Cum	22118	3952.8	
R/w LPCD	80.4		
C/w LPCD	56.0	10.0	
Comparison in	percenta	ges	
Details	Capacit	Pumpe	
R/w Vol Cum	100%		
C/w Vol Cum	100%	18%	12%
R/w LPCD	100%		
C/w LPCD	100%	18%	

Trial run on Hanawal Scheme

Scheme	:	Hanawai				District : Month :		Kurnool July 96	
Pumping	g capacit	y Va Pun	nped Vo	lume (R)	<u>(W)</u>				
nfrastru	cture			Actually	Pumped		PCD 9	rtails	_
Capacity	PRED (r.	/w)		Details P	RED (r/v	v)			
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Popul	Сар	Act
Сара	Hours/d		Capa	Hrs/day	pump			•	1
Cum/hr		Çu.m	Cu.m			Cu.m		LPCD	LPCD
66.18	· 16	32825	66,18		31	1	7694		
ļ									
				1		1			ł
1									1
			·	<u> </u>	╄	┾	5469	<u>}</u> -	<u> </u>
						1	3409		
		ļ							
	ļ				1				
Total		32825		†	+		13163	83.13	
Pumpin	g capaci	ty Vs Pu	mped Vo	olume (C	:/W)				

Infrastru	cture			Actually	Pumped		LPCD de	etails	
Capacity	PRED (o	:/w)		Details P	RED]
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Popul	Сар	Act
Сара	Hours/d		Сара	Hours/d	pump				
Cum/hr		Cu.m	Cu.m			Cu.m		LPCD	LPCD
12.96	16	6428.2	12.96	6.5	10	842.4	7694	27.85	3.65
							2		
					•			ł	
	ł					ł		l	ļĮ
33.12	16	16428	33.12	7	10	2318.4	5469	100.13	14,13
1	1					1			
1						ļ			
	·	l			l				
Total		22856				3160.8	13163	57.88	8.00

At a Glance comparison

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Details	Capacit	Pumped	
R/w Vol Cum	32825	NA	
C/w Vol Cum	22856	3160.8	
R/w LPCD	83.1		
C/w LPCD	57.9	8.0	
Comparison in	percentag		د
Details	Capacit	Pumped	cw/cap
R/w Vol Cum	100%		
C/w Vol Cum	100%	14%	10%
R/w LPCD	100%	{	
C/w LPCD	100%	14%	

Trial run on Hanawal Scheme

Scheme :

Hanawal

District : Month : Kurnool Aug 96

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rumpin	g capac	ity Vs Pu	Imped V	olume	(R/W)				
Infrastru	cture			Actually	Pumped	1	K		
Capacit	<u>y PRED (</u>	-		Details F	RED (r/	w)	l		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Сара	Hours/d	1	Сара	Hrs/day	pump]	1	Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
66.18	16	32825	66.18		31		7694		
)	1			}]		}	l		
1	1								
	1								
] ·]]	
							5469	 	
							5409	[
]	1		
Total		32825					13163	80.44	
Pumpin	g capac	ity Va Pu	mped V	olume (C/W)				•••••===:/
Infrastru	icture			Actually	Pumped				
Capacity	y PRED (c/w)		Details P	RED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	[
Сара	Hours/d		Сара	Hours/d	pump			Сар	Act
Cum/hr		Cu.m	Cu.m				Popul	LPCD	LPCD
12.96	16	6428.2	12.96	8,75	31	3515.4	7694	26.95	14.74
							ļ.		
								l	
		L				10011	5469	96,90	59.05
33.12	16	16428	33.12	I 9.75 I	31				
33.12	16	16428	33.12	9.75	31	10011	5403	90.90	59.05
33.12	16	16428	33.12	9.75	31	10011	5403	90.90	59.05
33.12	16	16428	33.12	9.75	31	10011	5403	90.90	59.05

1		-
Capacit	Pumpe	
32825		1
22856	13526	
80,4		
56,0	33.1	
percenta	ges	
Capacit	Pumpe	
100%		
100%	59%	41%
100%		
100%	59%	
	32825 22856 80,4 56,0 Dercenta Capacit 100% 100%	22856 13526 80,4 56,0 33,1 5ercentages Capacit Pumpe 100% 100% 59% 100%

			Trial ru	n on Ha	nawal S	Scheme	1	
Scheme	:	Hanawa	l			District :		K
						Month :		S
	g capaci	ty Va Pu	mped V		R/W)			
Infrastru	icture			Actually	Pumped		[
Capacit	y PRED (r/w)		Details P	RED (r/v	v)		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol		ſ
Capa	Hours/d		Capa	Hrs/day	pump			¢
Cum/hr		Cu.m	Cu.m	}		Cu.m	Popul	l
66.18	16	31766	66.18		30		7694	ſ
ų.	ł					ł		l
0	1	ł		1 .			1	L

Kurnool

Sep,96

Cap LPCD Act LPCD

00.10		31/00	00.10				1004		
						1			
	1								
	. [[
							5469	· · · ·	
Tota!		31766					13163	80.44	
	g capac		imped V	olume (C/W)		10100		
Infrastru				Actually			Γ		
	PRED (c/w)		Details F					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol		í	
Capa	Hours/d		Capa	Hours/d	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
12.96	16	6220.8	12.96	4.33	30	1683.5	7694	26.95	7.29
	}					}		}	
								l	
]]		1]	
	<u> </u>	<u> </u>		<u> </u>				<u> </u>	
33.12	16	15898	33.12	1.33	30	1321.5	5469	96.90	8.05
		ļ	ļ	{		ļ			
			ł						
Total	<u> </u>	22118	<u> </u>			3005	13163	56.01	7.61
			·		<u>i</u>			<u> </u>	

At a Glance comparison

	ubauraau		_
Details	Capacit	Pumpe	ł
R/w Vol Cum	31766	NA	
C/w Vol Cum	22118	3005	ł
R/w LPCD	80.4		
C/W LPCD	56.0	7.6	
Comparison in	percenta	ges	,
Details	Capacit	Pumpe	
R/w Vol Cum	100%		
C/w Vol Cum	100%	14%	9
R/w LPCD	100%		
C/W LPCD	100%	14%	

Annexure	3.	6
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Analysis Capacity Vs Pumping of waterScheme : IbrahimpurDistrict :MedakMonth :Apr,96

Pumping capacity Vs Pumped Volume (R/W)

Infras	structu		<u>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	Actually	_	ed	1			
		RED (r/		Details P						
Pum			Pump	Avg.			/	1	ر <u></u> ر	
6	Hour		Capa	Hrs/day	pum		ł	Сар	Act	
n .	1001		Cu.m	I II S/UAy	pun	<u></u>	Donul		, I	
Cum		Cu.m		44.05		Cu.m		LPCD	LPCD	
275.	16	13213	275.28	11.65	20	64140.	4449		ł	
						.				
							0			
Total		13213				64140.	4449	98.99	48.05	
Pum	ping o	apacity	/ Vs Pur	nped Vol	ume	(C/W)				
Infras	and the second second			Actually						
Capa	Capacity PRED (c			Details P	RED					
Pum		Vol	Pump	Avg.	Days	Vol				
Cap	Hour		Capa	Hours/d	pum			Cap	Act	
Cum		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
192	16·	92160	192	11.6	20	44544		_===	i i i i i i i i i i i i i i i i i i i	
37.8	16	18144	37.8	12	20	9072				
Total		11030				53616	4449	82.63	40.16	

Capac	Pumpe	
13213	64140.2	
11030	53616	
99.0	48.1	
82.6	40.2	
on in pe	ercentag	es
Capac	Pumpe	c/w/cap
100%	49%	
100%	49%	41%
100%	49%	
100%	49%	
	13213 11030 99.0 82.6 on in p Capac 100% 100%	99.0 48.1 82.6 40.2 on in percentag Capac Pumpe 100% 49% 100% 49% 100% 49%

Scheme : Ibrahimpur District : Month :

ъ*ф*.

: Medak : May 96

Pumping capacity Vs Pumped Volume (R/W)

permanent of the second s				A strally D	AND I STORES)			
Infrastru				Actually Pu	-				
Capacity				Details PR				زونهو است	
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hrs/day	pump			• •	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
275.28	16	132134.	275.28	10.84	20	59680.7	4449		
								l	
								1	
Total		132134.				59680.7	4449	99.0	44.7
Pumpin	g capac	ity Vs P	umped \	Volume (C	C/W)				<u></u>
Infrastru	icture			Actually P	umped				
Capacit	y PRED	(c/w)	· ·	Details PF	RED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol		1	
Capa	Hours/		Capa	Hours/da	pump		1	Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popu	LPCD	LPCD
192	16	92160	192	10.74	20	41241.6	3		
37.8	16	18144	37.8	10.96	19	7871.47			
						}			
	<u> </u>	<u> </u>	ļ	ļ	ļ	<u> </u>	<u> </u>	1	
Total		110304		1		49113.0	4449	82.6	36.8

Comparison in	n percent	ages
C/w LPCD	82.6	36.8
R/w LPCD	99.0	44.7
C/w Vol Cum	110304	49113.0
R/w Vol Cum	132134.	596 80.7
Details	Capacit	Pumpe

Details	Capacit	Pumpe	
R/w Vol Cum	100%	45%	
C/w Vol Cum	100%	45%	37%
R/w LPCD	100%	45%	
C/w LPCD	100%	45%	

Scheme :	Ibrahim pur		District :	Medak
an a		• •	Month :	June 96

Pumping capacity Vs Pumped Volume (R/W)

The second s	Infrastructure Actually Pumped									
a		(rhai)		-	•					
	PRED	the second s	D	Details I	A DATE OF A DESCRIPTION		<u> </u>	1		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	Į			
	Hours/		Capa	Hrs/day	pump	1		Cap	Act	
Cum/hr		Cu.m	Cu.m			Cu.m		LPCD	LPCD	
275.28	16	132134.	275.28	10	23	63314.4	4449			
		1. A.						l		
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		
								· ·		
					1 a.					
Total		132134.				63314.4	4449	99.0	47.4	
Pumpin	g capac	ity Vs P	umped \	/olume	(C/W)					
Infrastru	cture		Actually Pumped							
Capacity	PRED	(c/w)		Details F	PRED					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol				
Capa	Hours/		Capa	Hours/	pump			Сар	Act	
Cum/hr		Cu,m	Cu.m			Cu.m	Popul	LPCD	LPCD	
192	16	92160	192	9.94	23	43895.0				
37.8	16	18144	37.8	10.21	23	8876.57				
	2				· .					
Total		110304				52771.6	4449	82.6	39.5	

Capacit		
Japacit	Pumpe	
132134.	63314.4	
110304	52771.6	
99.0	47.4	
82.6	39 .5	
percenta	ages	
Capacit	Pumpe	·
100%	48%	
100%	48%	40%
100%	48%	
100%	48%	
	110304 99.0 82.6 percent a Capacit 100% 100%	82.6 39.5 percentages Capacit Pumpe 100% 48% 100% 48% 100% 48%

Scheme:

Ibrahimpur

District : Medak Month : July 96

Pumping capacity Vs Pumped Volume (R/W)

Infrastru	cture			Actually	Pumpec				
Capacity	PRED (r/w)		Details F	PRED (r/v	w)		• •	
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hrs/day	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
275.28	16	132134.	275.28	13.4	29	106973.	4449		
					e Alfreda				
						Į			
					1994 - A.				
	·····								
				<u></u>		ļ		· ·	
Totai	l	132134.	<u> </u>			106973.	4449	99.0	80.1
		ity Vs P	umped '	Volume			W		
Infrastru				-	Pumpe	d			
	y PRED	· · · · · · · · · · · · · · · · · · ·				<u> </u>	-	÷	
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
	Hours/	_	Capa	Hours/	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	<u> </u>		LPCD
192	16	92160	192	12.7	29	70713.6	1		
37.8	16	18144	37.8	10.37	28	10975.6	5		
				1					
Total	<u> </u>	110304		1		81689.2	4449	82.6	61.2

At a Glance comparison

C/w LPCD

		-	
Details	Capacit	Pumpe	
R/w Vol Cum	132134.	106973.	
C/w Vol Cum	110304	81689.2	
R/w LPCD	99.0	80.1	
C/w LPCD	82.6	61.2	
Comparison in	percent	ages	,
Details	Capacit	Pumpe	
R/w Vol Cum	100%	81%	
C/w Vol Cum	100%	74%	62%
R/w LPCD	100%	81%	

100%

74%

Scheme :	Ibrahimpur	District :	Medak
		Month :	Aug 96

Pumping capacity Vs Pumped Volume (R/W)

				volume					
Infrastructure Actually Pumped									
The second s	Capacity PRED (r/w)			and a second	PRED (r/		<u> </u>		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hrs/day	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
275.28	16	132134.	275.28	13.54	29	108091.	4449		
						}	ų Į	- · ·	
				∫ . i			4		
							<u> </u>		
								i	
						ł			
			, 						
Total		132134.				108091.	4449	99.0	81.0
1-		ity Vs P	umped \	/olume					
Infrastru				Actually	•	1			
	y PRED		Militari	Details F					_
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
	Hours/		Capa	Hours/	pump			Сар	Act
Cum/hr		Cu.m	Cu.m				Popul	LPCD	LPCD
192	16	92160	192	13.32	29	74165.7			
37.8	16	18144	37.8	13.32	29	14601.3			
Total		110304				88767.1	4449	82.6	66.5

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	132134.	108091.
C/w Vol Cum	110304	88767.1
R/w LPCD	99.0	81.0
C/w LPCD	82.6	66.5

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	82%	
C/w Vol Cum	100%	80%	67%
R/w LPCD	100%	82%	
C/w LPCD	100%	80%	

Scheme :	Ibrahimpur	District :	Medak
		 Month :	Sep 96

Pumping capacity Vs Pumped Volume (R/W)

	a second s								
Infrastru	cture			Actually	•				
Capacity	PRED (r/w)		Details F	'RED (r/\	N)			
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hrs/day	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
275.28	16	132134.	275.28	12.58	20	69260.4	4449		
		1.							
		1							
				ļ				Ļ	
Total		132134.	1			69260.4	4449	99.0	51.9
		<u>ity Vs P</u>	umped \						·
Infrastru				•	Pumpeo	d I			
	y PRED			Details					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hours/	pump			Cap	Act
Cum/hr		Cu.m	Cu.m				Popul	LPCD	LPCD
192	16	92160	192	13.44	19	49029.1		T	
37.8	16	18144	37.8	12.42	20	9389.52			
Total	<u> </u>	110304	·	1	1	58418.6	4449	82.6	43.8

At a Glance comparison

1

Details	Capacit	Pumpe
R/w Vol Cum	132134.	69260.4
C/w Vol Cum	110304	58418.6
R/w LPCD	99.0	51.9
C/w LP CD	82.6	43.8

Comparison in percentages Details Capacit Pumpe

R/w Vol Cum	100%	52%	
C/w Vol Cum	100%	53%	44%
R/w LPCD	100%	52%	
C/w LPCD	100%	53%	

Annexure 3.7

· · · · ·	Analysis Cap	acity Vs Pumping	of water
Scheme :	CPWSS Karasguthy	District :	Medak
		Month :	Apr,96

Pumping capacity Vs Pumped Volume (R/W)

Contraction of the local division of the loc	struct	ure		Actually			1		
0		PRED (r		Details F					
	Avg.		Pump	we want the second s	Day	Vol	 		
Cap	Hour		Capa	Hrs/day	pum		li l	Cap	Act
Cum		Cu.m	Cu.m		['		Popul		LPCD
148.		71280	148.5	10.21	30	And the second sec	3367		
					ł			1	
						1			[[
						l			
					}				
						ſ		i.	
									·
Total	and the second	71280			<u> </u>		3367	70,6	45.0
Pum	ping (capacit	y Vs Pu	mped Vo					
Infras				Actually	•	bed			
		RED (Details P					
Pum	-	Vol	Pump	Avg.	Day	Vol			
	Hour		•	Hours/d	pum			Сар	Act
Cum		Cu.m	Cu.m					LPCD	
123.	16	59356.	123.66	13.28	30	49266.	3367	58.8	48.8
	j		1						
Total		59356.				49266.	3367	58.8	48.8
rotal		<u></u>				49200.	0307	50.0	40.0

	e com	pullison	
		Pumpe	
R/w Vol C	71280	45485.	
C/w Vol C	59356.	49266.	
R/w LPCD	70.6	45.0	
C/w LPCD	58.8	48.8	
Comparis	on in p	ercenta	ges
Details	Capac	Pumpe	c/w/cap
R/w Vol C	100%	64%	
C/w Vol C	100%	83%	69%
R/w LPCD	100%	64%	
	100%	04/0	

Scheme:	CPWSS Karasguthy	District :	Medak
		Month:	May 96

Pumping capacity Vs Pumped Volume (R/W)

-				volume	and the second				
Infrastru				Actually	•	1			_
Capacity	Capacity PRED (r/w)			Details F	PRED (r/				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hrs/da	pump			Сар	Act
Cum/hr		Cu.m	Cu.m				the second se	LPCD	LPCD
148.5	16	73656	148.5	11.76	31	54137.	3367		
					1.00				
						}			
						Ļ		 	
Total		73656	*			54137.	3367	72.9	53.6
C. C	ig capac	ity Vs F	Pumped		THE REAL PROPERTY AND ADDRESS OF ADDRES		•		
Infrastru					[,] Pumpe	d			
	Capacity PRED (c/w)			Details	PRED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hours/	pump	}		Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popu		LPCD
123.66	16	593 56.	123.66	14.6	31	5596 8 .	3367	58.8	55.4
		}		}				1	}
	l					ł			
Total	<u> </u>	59356.				55968.	3367	58.8	55.4

At a Glance comparison

711 u uluitee ee		••	
Details	Capacit	Pumpe	
R/w Vol Cum	73656	54137.	
C/w Vol Cum	59356.	55968.	
R/w LPCD	72.9	53.6	
C/w LPCD	58.8	55.4	
Comparison in	percen	tages	<u> </u>
Details	Capacit	Pumpe	c/w/ca
R/w Vol Cum	100%	74%	
C/w Vol Cum	100%	94%	76%
R/w LPCD	100%	74%	
C/w LPCD	100%	94%	

	Analysis Capacit	y Vs Pumping 🛛	of water
Scheme :	CPWSS Karasguthy	District :	Medak
		Month :	June 96

I

Pumping capacity Vs Pumped Volume (R/W)

Infrastru	Ifrastructure			Actually Pumped			1		<u> </u>
Capacit	apacity PRED (r/w)			Details	PRED (r	/w)	·		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hrs/da	pump	l	ł	Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
148.5	16	71280	148.5	11.05	28	45945.	3367		
] . i	Ĩ		Į.		
	· · .				· · ·				
			1.						
	· · ·								
							a		
			-				ŧ.		
	· · · ·		8						
Total		71280				45945.	3367	70.6	45.5
	the second s	city Vs F	umped	Volume					
Infrastru				-	Pumpe	d			
	pacity PRED (c/w)			Details			[
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hours/	pump	_		Сар	Act
Cum/hr		Cu.m	Cu.m				Popul		
123.66	16	59356.	123.66	13.9	28	48128.	3367	58.8	47.6
e e e									
Total		59 356 .				48128.	3367	58.8	47.6

At a Glance comparison

Details	Capaci	Pumpe
R/w Vol Cum	71280	45945.
C/w Vol Cum	59356.	48128.
R/w LPCD	70.6	45,5
C/w LPCD	58.8	47.6

Details	Capacit	Pumpe	c/w/ca
R/w Vol Cum	100%	64%	
C/w Vol Cum	100%	81%	68%
R/w LPCD	100%	64%	
C/w LPCD	100%	81%	*

Scheme : CPWSS Karasguthy District : Medak Month : July 96

Pumping capacity Vs Pumped Volume (R/W) Actually Pumped Infrastructure Details PRED (r/w) Capacity PRED (r/w) Vol Pump Avg. Days Avg. Vol Pump Cap Act Capa Hours/ Capa Hrs/da pump Cu.m Popul LPCD LPCD Cum/hr Cu.m Cu.m 19652. 3367 148.5 16 73656 148.5 5.09 26 19652. 72.9 19.5 Total 73656 3367 Pumping capacity Vs Pumped Volume (C/W) Infrastructure Actually Pumped Capacity PRED (c/w) **Details PRED** Pump Pump Days Vol Avg. Vol Avg. Capa Hours/ Capa Hours/ Cap Act pump Cum/hr Cu.m Popul LPCD LPCD Cu.m Cu.m 123.66 16 59356. 123.66 6.71 26 21573. 3367 58.8 21.4 59356. Total 21573. 3367 58.8 21.4

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	73 656	19652.
C/w Vol Cum	59356.	21573.
R/w LPCD	72.9	19.5
C/w LPCD	58.8	21.4

Details	Capacit	Pumpe	c/w/ca
R/w Vol Cum	100%	27%	
C/w Vol Cum	100%	36%	29%
R/w LPCD	100%	27%	
C/w LPCD	100%	36%	

Scheme : CPWSS Karasguthy District : Medak Month : Aug 96

Pumping capacity Vs Pumped Volume (R/W) Infrastructure **Actually Pumped** Capacity PRED (r/w) Details PRED (r/w) Pump Avg. Vol Pump Avg. Days Vol Capa Hours/ Capa Hrs/da Cap Act pump Cu.m Popul LPCD LPCD Cum/hr Cu.m Cu.m 10246. 3367 148.5 16 73656 148.5 3.45 20 Total 73656 10246. 3367 72.9 10.1 Pumping capacity Vs Pumped Volume (C/W) Infrastructure Actually Pumped Capacity PRED (c/w) **Details PRED** Pump Avg. Vol Pump Avg. Days Vol Capa Hours/ Capa Hours/ pump Cap Act Cu.m Popul LPCD LPCD Cum/hr Cu.m Cu.m 9521.8 3367 123.66 16 59356. 123.66 3.85 20 58.8 9.4 Total 59356. 9521.8 3367 58.8 9.4

Comparison in percentages						
C/w LPCD	58.8	9.4				
R/w LPCD	72.9	10.1				
C/w Vol Cum	59 356.	9521.8				
R/w Vol Cum	73656	10246.				
Details	_	lPumpe				

Details	Capacit	Pumpe	c/w ca
R/w Vol Cum	100%	14%	
C/w Vol Cum	100%	16%	13%
R/w LPCD	100%	14%	
C/w LPCD	100%	16%	

Scheme :	CPWSS Karasguthy	District :	Medak
		 Month :	Sep 96

ing approxim() (a Duran ad Valuma (DAIA

		Pumping capacity Vs Pumped Volume (R/W)							
Infrastru	nfrastructure			Actually	Pumped	1			
Capacity	PRED	r/ w)		Details F	PRED (r/	w)		• •	
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hrs/da	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
148.5	16	71280	148.5	9.27	30	41297.	3367		
1 1	1								
		1. A.			4 A				
· · · ·									
Total		71280				41297.	3367	70.6	40.9
Pumpin	g capao	city Vs F	umped	Volume	(C/W)	<u>.</u>	3		
Infrastru	Infrastructure			Actually	Pumpe	d	1		
Capacit	Capacity PRED (c/w)			Details	PRED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hours/	pump	ļ		Cap	Act
Cum/hr		Cu.m	Cu.m	ŀ		Cu.m	Popu	LPCD	LPCD
123.66	16	59356.	123.66	13.13	30	48709.	3367	58.8	48.2
		· ·							1
	ļ	ļ							
	 	50050	<u> </u>			10705	0007		40.0
Total		59356.	<u> </u>	<u>l</u>	<u>i</u>	48709.	3367	58.8	48.2

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	71280	41297.
C/w Vol Cum	59356.	48709.
R/w LPCD	70.6	40.9
C/w LPCD	58.8	48.2

Details	Capacit	Pumpe	c/w/ca
R/w Vol Cum	100%	58%	
C/w Vol Cum	100%	82%	68%
R/w LPCD	100%	58%	
C/w LPCD	100%	82%	

Annexure 3.8

	/		
Scheme :	Borancha	District :	Medak
		Month :	Apr,96

Pumping capacity Vs Pumped Volume (R/W)

Contraction of the local division of the loc			/	A shually	and the second se		1		
	Infrastructure			Actually	-				
	Capacity PRED (r			Details F			<u> </u>		
Pum	-	Vol	Pump	-	Day	Vol			1
Cap	Hour		Capa	Hrs/day	pum		1 ·	Cap	Act
Cum		Cu.m	Cu.m			Cu,m	Popul	LPCD	LPCD
189.	16	91123.	189.84	13.6	30	77454.	4788		
	•								
Total		91123.				77454.	4788	63.437	53.921
Pum	ping	capacit	y Vs Pu	mped Vo	lume	(C/W)			
Infras		the second s		Actually					
Capa	city P	RED (Details P	RED				
Pum		Vol	Pump	Avg.	Day	Vol			l l
	Hour		Capa	Hours/d	pum			Сар	Act
Cum		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
107.	16	51408	107.1	14,23	30	45721	í <u> </u>		
39.2	16	18835.	39.24	15	30	17658			} .
7.98	16	3830.4		10	30	2394		ļ	
6	16	2880	6	9	25	1350		f .	
4.14	16	1987.2	4.14	3.25	21	282.56	Ì		
Total		78940.				67405.	4788	54.956	46.925

At a Glance comparison

Details	Capac	Pumpe	
R/w Vol Ç	91123.	77454.	
C/w Vol C	78940.	67405.	
R/w LPCD	63.4	53.9	
C/w LPCD	55.0	46.9	

		Pumpe	c/w/cap
R/w Vol C	100%	85%	
C/w Vol C	100%	85%	74%
R/w LPCD	100%	85%	
C/w LPCD	100%	85%	

	Analysis Capacity Vs Pumping of water					
Scheme :	Borancha	District :	Medak			
	н Н	Month :	May 96			

		ILY VS F		volume (-		
Infrastruc				Actually P	•				
Capacity PRED (r/w)			Details PR	<u>ED (r/w</u>					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
	Hours/		Capa	Hrs/day	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m		LPCD	LPCD
189.84	16	94160.	189.84	14.24	-31	83802.	47880.		
							1 N. 		
				х.					
	_								
								Į	
·								1	
								1	
						L	ļ		
Total	· · · · · · · · · · · · · · · · · · ·	94160.				83802.	<u>47880.</u>	65.552	58.341
		city Vs F	umped	Volume (
Infrastru				Actually P	•				
Capacity				Details PF			<u> </u>		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
8 1	Hours/		Capa	Hours/da	pump			Сар	Act
Cum/hr		Cu.m	Cu.m				Popul	LPCD	LPCD
107.1	16	53121.	107.1	14.31	31	47510.			
39.24	16	19463.	39.24	14.15	31	17212.			
7.98	16	3958.0	7.98	12.6	31	3116.9			
6	16	2976	6	9.9	30	1782			
4.14 Total	16	2053.44 81572.	4.14	2.4	30	298.08 69920.	47880.	56.788	48.676
		101012.			<u> </u>	109920.	<u>000.</u>	100.700	140.070

At a Glance comparison

At a dianeo oo	mparioo	**	
Details	Capacit	Pumpe	
R/w Vol Cum	94160.	83802.	
C/w Vol Cum	81572.	69 920.	
R/w LPCD	65.6	58.3	
C/w LPCD	56.8	48.7	
Comparison in	percent	tages	
Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	89%	
C/w Vol Cum	100%	86%	74%
R/w LPCD	100%	89%	
C/w LPCD	100%	86%	
			the second se

Scheme :	Borancha	District :	Medak
		Month :	June 96

Pumping capacity Vs Pumped Volume (R/W)

		City VS F	umpeu						
N	Infrastructure Actually Pumped								
Capacit	Capacity PRED (r/w)			Details	PRED (r		<u> </u>		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/	ĺ	Capa	Hrs/da	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
189.84	· 16	91123.	189.84	10.68	28	56769.	47880.		
								ł	ļ
						1. A. A.			
		-			1 .		l	}	
									· · ·
Total		91123.				56769,	47880.	63.437	39.521
Pumpin	g capao	city Vs F	umped	Volume	(C/W)				••••••••••••••••••••••••••••••••••••••
Infrastru	icture			Actually	Pumpe	d]		
Capacit	Capacity PRED (c/w)			Details	PRED		<u> </u>		<u> </u>
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	l		
Capa	Hours/		Capa	Hours/	pump		1	Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
107.1	16	51408	107.1	9.99	28	29958.			
39.24	16	18835.	39.24	10.03	28	11020.			
7.98	16	3830.4	7.98	· 10	30	2394			
6	16	2880	6	8.08	26	1260.48			
4.14	16	1987.2	4.14	1.86	14	107.806	47000		
Total		78940.				44740.	47880.	54.956	31.147

At a Glance comparison

Details	Capaci	Pumpe
R/w Vol Cum	91123.	56769.
C/w Vol Cum	78940.	44740.
R/w LPCD	63.4	39.5
C/w LPCD	55.0	31.1

Details	Capacit	Pumpe	c/w/ca
R/w Vol Cum	100%	62%	
C/w Vol Cum	100%	57%	49%
R/w LPCD	100%	62%	
C/w LPCD	100%	57%	

Analysis	Capacity	۷s	Pumping	of	fwater
----------	----------	----	---------	----	--------

Scheme :	Borancha	District :	Medak
		Month:	July 96

	Pumping capacity vs Pumped volume (R/W)								
	nfrastructure Actually Pumped								
	Capacity PRED (r/w)			Details I					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
	Hours/		Capa	Hrs/da	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m		LPCD	LPCD
189.84	16	94160.	189.84	13.23	29	72835.	47880.		
							a second		
								1	
								l	
	· ·								
]
Total		94160.				72835.	478 80.	65.552	50.706
Pumpin	g capa	city Vs F	umped	Volume	(C/W)				
Infrastru	icture			Actually	/ Pumpe	d			
Capacit	y PRED	(c/w)		Details	PRED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hours/	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
107.1	16	53121.	107.1	12.914	29	40109.	1		
39.24	16	19463.	39.24	12.84	29	14611.			
7.98	16	3958.0	7.98	12	31	2968.5			
6	16	2976	6	7.86	27	1273.32	· .		
4.14	16	2053.44	4.14	1.194	17	84.0337			
Total		81572.	<u> </u>	L	<u> </u>	59046.	47880.	56.788	41.106

At a Glance comparison

Details	Capacit	Pumpe			
R/w Vol Cum	94160.	72835.			
C/w Vol Cum	81572.	59046.			
R/w LPCD	65.6	50.7			
C/w LPCD	56.8	41.1			
Comparison in percentages					

Details	Capacit	Pumpe	c/w/ca
R/w Vol Cum	100%	77%	
C/w Vol Cum	100%	72%	63%
R/w LPCD	100%	77%	
C/w LPCD	100%	72%	

	Anaiys	sis Capacity	vs rumping (of water
Scheme :	Borancha	•	District :	Medak
		•	Month :	Aug 96

Pumping capacity vs Pumped volume (R/W)										
Infrastru	icture			Actually	•					
Capacit	y PRED			Details						
Pump	Avg.	Vol	Pump	Avg.	Days	Vol				
Capa	Hours/		Capa	Hrs/da	pump		8	Сар	Act	
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
189.84	16	94160.	189.84	13.4	27	68684.	47880.			
								1		
				l i				}	i i	
						ļ				
						·	·			
						· ·				
					-					
Total		94160.				68684.	47880.	65.552	47.816	
Pumpin	g capac	city Vs P	umped	Volume	(C/W)					
Infrastru	icture			Actually	Pumpe	d				
Capacity	y PRED	(c/w)		Details I	PRED					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol				
Capa	Hours/		Capa	Hours/	pump			Сар	Act	
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
107.1	16	53121.	107.1	10.11	26	28152.				
39.24	16	19463.	39.24	11.7	27	12395.				
7.98	16	3958.0	7.98	14.22	27	3063.8				
6	16	2976	6	11.03	27	1786.86				
4.14	16	2053.44	4.14	1.5	12	74.52				
Total		81572.				45473.	47880.	56. 78 8	31.657	

At a Glance comparison

Details	Capacit Pumpe							
R/w Vol Cum	94160.	68684.						
C/w Vol Cum	81572.	45473.						
R/w LPCD	65.6	47.8						
C/w LPCD	56.8	31.7						
Comparison in percentages								

oomparison in percentages										
Details	Capacit	Pumpe	c/w/ca							
R/w Vol Cum	100%	73%								
C/w Vol Cum	100%	56%	48%							
R/w LPCD	100%	73%								
C/w LPCD	100%	56%								

	Anal	ysis Capacity	Vs Pumping of	of water
Scheme :	Borancha		District :	Medak
			Month :	Sep 96

rumping capacity vs rumped volume (n/w)										
Infrastru				Actually	•					
	PRED			Details I						
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	· ·			
Capa	Hours/		Capa	Hrs/da	pump		<i>e</i> (Сар	Act	
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
189.84	16	91123.	189.84	15.88	30	90439.	47880.			
								1		
					1.1			1		
				N						
					8.11	l				
Total		91123.				90439.	47880.	63.437	62.961	
Pumpin	ng capa	city Vs F	Pumped	Volume	(C/W)					
Infrastru	ucture			Actually	[,] Pumpe	d		<u> </u>		
Capacit	y PRED	(c/w)	l	Details	PRED		<u> </u>			
Pump	Avg.	Vol	Pump	Avg.	Days	Vol				
Capa	Hours/		Capa	Hours/	pump			Сар	Act	
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
107.1	16	51408	107.1	15.83	29	49166.	<u></u>			
39.24	16	18835.	39.24	16.64	29	18935.				
7.98	16	3830.4	7.98	13	30	3112.2				
6	16	2880	6	14.29	27	2314.98			ŀ	
4.14	16	1987.2	4.14	2.38	17	167.504				
Total		78940.				73696.	47880.	54,956	51.305	

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	91123.	90439.
C/w Vol Cum	78940.	73696.
R/w LPCD	63.4	63.0
C/w LPCD	55.0	51.3
	·····	

Details	Capacit	Pumpe	c/w/ca
R/w Vol Cum	100%	99%	
C/w Vol Cum	100%	93%	81%
R/w LPCD	100%	99%	
C/w LPCD	100%	93%	

Analysis Water Monitoring Formats PROJECT : Medak AP II (Borancha CPWSS) DATA SOURCE : VILLAGE COMMITTEES VIA NGO MARI

MONITORED BY : NAPO

		Apr	96	Мау	96	Jun	96	Jul	96	Aug	96	Sep	96
S.No	Village	Days	ALPCD	Days	ALPCD	Days	ALPCD	Days	ALPCD	Days	ALPCD	Days	ALPCD
1	Dosapally-a	26	18,1	16	10.8	10	6.9	13	8.7	2	1.3	11	7.6
	Dosapally-b	24	16.7	16	10.8	9	6.3	13	8.7	2	1.3	11	7.6
2	Gajwada	5	?	16	?	5	?	15	?	3	?	15	?
3	Usirikapally	26	?	15	?	12	?	4	?	4	?	9	?
4	Islampur	29	?	28	?	21	?	19	?	4	?	15	?
5	Dhanwar-a	16	6.1	12	4.4	7	2.7	12	4.4	4	1.5	14	5.3
	Dhanwar-b	16	6.1	12	4.4	6	2.3	12	4.4	3	1.1	14	5.3
6	Watpally-a	?	?	0	0.0	1	0.7	5	3.2	0	0.0	12	. 8.0
	Watpally-b	?	?	Ō	0.0	2	1.3	1	0.6	0	0.0	14	9.3
7	Ghatpally-a	16	26.7	18	[·] 29.0	10	16.7	10	16.1	6	9.7	12	20.0
	Ghatpally-b	16	26.7	18	29.0	11	18.3	10	16.1	6	9.7	13	21.7
8	Gorrekal-a	?	?	7	11.3	6	10.0	9	14.5	1	1.6	8	13.3
	Gorrekal-b	?	?	7	11.3	6	10.0	7	11.3	2	3.2	16	26.7
9	Nagulapally-a	6	5.0	4	3.2	4	3.3	4	3.2	0	0,0	0	0.0
	Nagulapally-b	5	4.2	4	3.2	2	1.7	1	0.8	0	0.0	0	0.0
10	Paivatla-a	3	3.0	8	7.7	0	0.0	1	1.0	0	0,0	0	0.0
1.	Palvatla-b	4	4.0	7	6.8	0	0.0	1	1.0	0	0.0	0	0.0
11	Pothulaboguda-a	11	16.3	3	4.3	5	7.4	6	8.6	?	?	13	19.3
	Pothulaboguda-a	11	16.3	4	5.7	5	7.4	6	8.6	?	?	15	22.2

Mari project area	Volume (Cu.m) water delivered/month/village

		Apr	96	Мау	96	Jun	96	Jul	96	Aug	96	Sep	96
S.No	Village	Days	Popula	Days	Popula	Days	Popula	Days	Popula	Days	Popula	Days	Popula
	Dosapally-a	390	720	240	720	150	720	195	720	30	720	165	720
	Dosapally-b	240	480	160	480	90	480	130	480	20	480	110	480
	Gajwada	?		. ?		?		?		?		?	
	Usirikapally	?		?		?		?		?		?	
	Islampur	?		?		?		?		?		?	
	Dhanwar-a	240	1320	180	1320	105	1320	180	1320	60	1320	210	1320
	Dhanwar-b	160	880	120	880	60	880	120	880	30	880	140	880
	Watpaliy-a	?	250	0		5	250	25	250	0		60	250
	Watpally-b	?	750	0		30	750	15	750	0		210	750
	Ghatpally-a	160	200	180	200	100	20 0	100	200	60	200	120	200
	Ghatpally-b	240	300	2 70	300	165	300	150	300	90	300	195	300
	Gorrekal-a	?	200	70	200	60	200	90	200	10	200	80	200
	Gorrekal-b	?	800	280	800	240	800	280	800	80	800	640	800
	Nagulapally-a	60	400	40	400	40	400	40	400	0		0	
	Nagulapally-b	100	800	80	800	40	800	20	800	0		0	
	Palvatla-a	30	333	80	333	0		10	333	0		0	
	Palvatla-b	80	666	140	666	0		20	666	0		0	
	Pothulaboguda-a	110	225	30	225	50	225	60	225	0		130	225
	Pothulaboguda-a	440	900	160	900	200	900	240	900	· 0		600	900
	fotal Vol(cu.m)	2250		2030		1335		16 75		380		2660	
F	Pop served	7224			8224		8225		9224		4900	7224	7025
l	PCD	13.0		10.3		6.8		7.3		3.1		15.8	

Annexure 3.9

Scheme : ABPalem

District : Month : Prakasam Apr 96

Pumping capacity Vs Pumped Volume (R/W)

Infrastructure			Actually Pumped						
ß		RED (r/		Details P	Į				
Pum		Vol	Pump	Avg. Days Vol			ĵ <u></u>		
Cap	Hour		Capa	Hrs/day	pum			Cap	Act
Cum		Cu.m	Cu.m		1	Cu.m	Popul	LPCD	LPCD
44.8	16	21513.6	44.82	6.05	30	8134.8	19558		
				4 M		i			
Total		21513.6				8134.8	19558	36.67	13.86
-			Vs Pum	ped Volu					
11	tructu	1		Actually I	•	ed			
Capa	city Pl	RED (c/		Details P	RED				
Pum	Avg.	Vol	Pump	Avg.	Days	Vol			
Cap	Hour		Capa	Hours/d	pum			Сар	Act
Cum		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
23.1	16	11088	23.1	4.16	30	2882.8	3636	101.65	26.43
30.6	16	14688	30.6	4	30	3672	7918	61.8338	15.46
28.3	16	13622.4	28.38	3.05	30	2596.7	8004	56.73163	10.81
Total		39398.4				9151.6	19558	67.15	15.60

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol C	21513.6	8134.83
C/w Vol C	39398.4	9151.65
R/w LPCD	36.7	13.9
C/w LPCD	67.1	15.6

Details	Capacit	Pumpe	cw/cap
R/w Vol C	100%	38%	
C/w Vol C	100%	23%	43%
R/w LPCD	100%	38%	· · ·
C/w LPCD	100%	23%	· ·

Scheme :	ABPalem		District :	Prakasam
			Month :	May 96

Pumping capacity Vs Pumped Volume (R/W) Infrastructure Actually Pumped Capacity PRED (r/w) Details PRED (r/w) Vol Vol Pump Pump Avg. Avg. Days Capa Hours/d Hrs/day Cap Act Capa pump Cum/hr LPCD LPCD Cu.m Cu.m Cu.m Popul 10203.2 44.82 22230.7 44.82 7.85 29 19558 16 10203.2 19558 22230.7 Total 37.89 17.39 Pumping capacity Vs Pumped Volume (C/W) Infrastructure Actually Pumped Capacity PRED (c/w) **Details PRED** Pump Pump Avg. Vol Avg. Days Vol Hours/d Cap Act Capa Hours/d Capa pump LPCD Cum/hr LPCD Cu.m Cu.m Cu.m Popul 23.1 11457.6 23.1 3.76 31 2692.53 16 3636 105.04 24.68 30.6 15177.6 30.6 7918 16.75 16 5 26 3978 63.89492 28.38 16 14076.4 28.38 5.14 26 3792.70 8004 15.80 58.62269 40711.6 10463.2 Total 19558 69.39 17.83

At a Glance comparison

Capacit	Pumpe
22230.7	10203.2
40711.6	10463.2
37.9	17.4
69.4	17.8
	22230.7 40711.6 37.9

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	46%	
C/w Vol Cum	100%	26%	47%
R/w LPCD	100%	46%	
C/w LPCD	100%	26%	

Scheme :	ABPalem	District :	Prakasam
	· · ·	Month :	June 96

Pumping capacity Vs Pumped Volume (R/W)

Infrastru	cture			Actually	Pumped				
Capacity	y PRED (<u>(r/w)</u>		Details F	PRED (r/v	N)			
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	ſ		
Сара	Hours/d		Capa	Hrs/day	pump			Cap	Act
Cum/hr		Cu.m	Cu.m		<u> </u>	Cu.m	Popul	LPCD	LPCD
44.82	16	21513.6	44.82	7.83	29	10177.2	19558		
	ļ	1							
							· .		1
					· .		·		
	!		Í				ŀ		
							·		
	1			1 . 1					
	(i I	1 1	.				
			Ĺ						
Total		21513.6				10177.2	19558	36.67	17.35
Pumpin	g capaci	ity Vs Pu	mped V	'olume (C/W)				
Infrastru	cture			Actually	Pumped				
Capacity	y PRED (<u>c/w)</u>		Details P	RED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d	i	Capa	Hours/d	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
23.1	16	11088	23.1	3.7	30	2564.1	3636	101.65	23.51
30.6	16	14688	30.6	4.2	20	2570.4	7918	61.8338	10.82
28.38	16	13622.4	28.38	5.86	18	2993.52	8004	56.73163	12.47
Total		39398.4				8128.02	19558	67.15	13.85

At a Glance comparison

C/w LPCD

Capacit	Pumpe	ana go se an sain se				
21513.6	10177.2					
39398.4	8128.02					
36.7	17.3					
67.1	13.9					
percenta	iges	· .				
Capacit	Pumpe	c/w/cap				
100%	47%					
100%	21%	38%				
	Capacit 21513.6 39398.4 36.7 67.1 percenta Capacit 100% 100%	Capacit Pumpe 21513.6 10177.2 39398.4 8128.02 36.7 17.3 67.1 13.9 percentages Capacit Pumpe 100% 47%				

100%

21%

Scheme : ABPalem District : Month :

Prakasam July 96

Pumping capacity Vs Pumped Volume (R/W)

Infrastructure Actually Pumped Capacity PRED (r/w) Details PRED (r/w) Pump Pump Days Vol Avg. Vol Avg. Capa Hrs/day Cap Act Capa Hours/d pump Cu.m Popul LPCD LPCD Cum/hr Cu.m Cu.m 5557.68 19558 44.82 22230.7 44.82 4 31 16 Total 22230.7 5557.68 19558 37.89 9.47 Pumping capacity Vs Pumped Volume (C/W) Infrastructure Actually Pumped **Details PRED** Capacity PRED (c/w) Pump Vol Pump Vol Avg. Avg. Days Act Capa Hours/d Capa Hours/d pump Cap Cu.m Popul LPCD Cum/hr Cu.m LPCD Cu.m 3636 23.1 16 11457.6 23.1 1.63 27 1016.63 105.04 9.32 30.6 16 15177.6 30.6 0 0 7918 0.00 0 63.89492 28.38 16 14076.4 28.38 0 0 0 8004 0.00 58.62269 Total 40711.6 1016.63 19558 69.39 1.73

At a Glance comparison

	the second s	and the second
Details	Capacit	Pumpe
R/w Vol Cum	22230.7	5557.68
C/w Vol Cum	40711.6	1016.63
R/w LPCD	37.9	9.5
C/w LPCD	69.4	1.7

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	25%	1
C/w Vol Cum	100%	2%	5%
R/w LPCD	100%	25%	
Ċ/w LPCD	100%	2%	

Scheme : **A**BPalem District : Month:

Prakasam Aug 96

Pumping capacity Vs Pumped Volume (R/W)

Infrastru	icture			Actually	Actually Pumped				
Capacity	y PRED (L	Details F	PRED (r/\	w)	L		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hrs/day	pump			Cap	Act
Cum/hr		Cu.m	Cu.m		L	Cu.m	Popul	LPCD	LPCD
44.82	16	22230.7	44.82	6	31	833 6.52	19558		
	'		1					ļ !	
	1 1		1		1				
			1 . /		1				
	1		1		1				
·		l	I!						
	[!								
		1 1	1 1						
			1 '						
	<u> </u>		L'					!	
Total		22230.7	<u> </u> '			8336.52	19558	37.89	14.21
		ity Vs Pu	mped V	olume (
Infrastru	cture			Actually	•	1			
	y PRED (· · ·		Details P	'RED			*	
Pump	Avg.	Vol	Pump	Avg.	Days	Vol	[]		
Capa	Hours/d		Capa	Hours/d	pump			Сар	Act ·
Cum/hr	<u> </u>	Cu.m	Cu.m		I	Cu.m	Popul	LPCD	LPCD
23.1	16	11457.6	23.1	2.03	31	1453.68	3636	105.04	13.33
30.6	16	15177.6	30.6	0	0	0	7918	63.89492	0.00
28.38	16	14076.4	28.38	0	0	0	8004	58.62269	0.00
Total		40711.6				1453.68	19558	69.39	2.48

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	22230.7	8336.52
C/w Vol Cum	40711.6	1453.68
R/w LPCD	37.9	14.2
C/w LPCD	69.4	2.5

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	38%	
C/w Vol Cum	100%	- 4%	7%
R/w LPCD	100%	38%	
C/w LPCD	100%	4%	

		-	-	-		
Scheme :	ABPalem				District :	F
					Month :	1

Prakasam Aug 96

Pumping capacity Vs Pumped Volume (R/W)

I

I

ļ

-uniping capacity vs Funiped Volume (H/W)									
Infrastruc				Actually	•				
Capacity	PRED (r	/w)	and the second	Details P	<u>RED (r/v</u>	ای			
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa I	Hours/d		Capa	Hrs/day	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m		LPCD	LPCD
44.82	16	21513.6	44.82	6,21	28	7793.30	19558		
		ł							
						, i			
	2.00								
Total		21513.6				7793.30	19558	36.67	13.28
Pumping	g capaci	ity Vs Pu	mped V						
Infrastru	cture			Actually	•	i			
Capacity	PRED (Details I	PRED		l	101 1 1 10 10 10 10 10 10 10 10 10 10 10	
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hours/d	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
23.1	16	11088	23.1	3.28	30	2273.04	3636	101.65	20.84
30.6	16	14688	30.6	3.15	21	2024.19	7918	61.8338	8.52
28.38	16	13622.4	28.38	6.33	23	4131.84	8004	56.73163	17.21
Total		39398.4				8429.07	19558	67.15	14.37

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	21513.6	7793.30
C/w Vol Cum	39 398 .4	8429.07
R/w LPCD	36.7	13.3
C/w LPCD	67.1	14.4

Details	Capacit	Pumpe	c/w /cap
R/w Vol Cum	100%	36%	
C/w Vol Cum	100%	21%	39%
R/w LPCD	100%	36%	
C/w LPCD	100%	21%	

Annexure 3.10

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Analysis Capacity Vs Pumping of water

Scheme :	MVPalem		District :	Prakasam
			Month :	Apr,96

Pumping capacity Vs Pumped Volume (R/W)

	-unping capacity vs runned volume (R/W)								
Infrast				Actually I	•				
		ED (r/w		Details P			l		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hour		Capa	Hrs/day	pum]	Сар	Act
Cum/		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18.48	16	8870.4	18.48	6	30	3326.4	4474		
						1			(
						i			
		11							
Total		8870.4				3326.4	4474	66.1	24.8
Pump	ng ca	pacity \	Vs Pump	oed Volun	ne (C	/W)			
Infrast	ructure	э	Actually Pumped						
Capac	ity PR	ED (c/		Details P	RED_				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hour		Capa	Hours/d	pum			Сар	Act
Cum/		_Cu.m_	Cu.m			Cu.m	Popul	LPCD	LPCD
21.84	16	10483.	21.84	5	30	3276	4474	78.1	24.4
					[
Total		10483.		·····························		3276	4474	78.1	24.4

At a Glance comparison

Details	Capaci	Pumpe
R/w Vol Cu	8870.4	3326.4
C/w Vol Cu	10483.	3276
R/w LPCD	66.1	24.8
C/w LPCD	78.1	24.4

Details	Capaci	Pumpe	c/w/cap
R/w Vol Cu	100%	38%	
C/w Vol Cu	100%	31%	37%
R/w LPCD	100%	38%	
C/w LPCD	100%	31%	н.,

Scheme:

MVPalem

District : Month :

4474

3069

22.9

66.5

Prakasam May 96

Pumping capacity Vs Pumped Volume (R/W) Actually Pumped Infrastructure Details PRED (r/w) Capacity PRED (r/w) Vol Vol Pump Pump Avg. Avg. Days Act Capa Hours/d Capa Hrs/day pump Cap Cu.m Popul LPCD LPCD Cum/hr Cu.m Cu.m 31 3683.61 4474 18.48 9166.08 18.48 6.43 16 9166.08 3683.61 4474 68.3 27.4 Total Pumping capacity Vs Pumped Volume (C/W) Actually Pumped Infrastructure Capacity PRED (c/w) **Details PRED** Pump Vol Pump Vol Avg. Avg. Days Cap Capa Hours/d Capa Hours/d pump Act Popul LPCD LPCD Cum/hr Cu.m Cu.m Cu.m 4474 18 16 8928 18 5.5 31 3069 66.5 22.9

At a Glance comparison

Total

Details	Capacit	Pumpe
R/w Vol Cum	9166.08	3683.61
C/w Vol Cum	8928	3069
R/w LPCD	68.3	27.4
C/w LPCD	66.5	22.9

8928

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	40%	
C/w Vol Cum	100%	34%	33%
R/w LPCD	100%	40%	
C/w LPCD	100%	34%	

Scheme: MVPalem

District : F Month :

2960.35 4474

65.2

22.1

Prakasam June 96

Pumping capacity Vs Pumped Volume (R/W)

Infrastru	icture			Actually	Pumped				k.
Capacity	y PRED (r/w)		Details F	PRED (r/	N) /		. *	
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hrs/day	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18, 48	16	8870.4	18.48	6.61	30	3664.58	4474		
		į			1			ĺ	
					•				
	1	· · · ·							
· · · · · · · · · · · · · · · · · · ·									
Į								{	
Total		8870.4				3664.58	4474	66.1	27.3
Pumpin	g capaci	ty Vs Pu	mped V	olume ((
Infrastru	cture			Actually	Pumped				
Capacity	apacity PRED (c/w)			Details PRED					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hours/d	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18.24	16	8755.2	18.24	5.41	30	2960.35	4474	65.2	22.1

At a Glance comparison

Total

Details	Capacit	Pumpe
R/w Vol Cum	8870.4	3664.58
C/w Vol Cum	8755.2	2960.35
R/w LPCD	66.1	27.3
C/w LPCD	65.2	22.1

8755.2

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	41%	
C/w Vol Cum	100%	34%	33%
R/w LPCD	100%	41%	
C/w LPCD	100%	34%	

Scheme :

MVPalem

District : P Month : J

Prakasam July 96

Pumping capacity Vs Pumped Volume (R/W)

Infrastruc	cture			Actually					
Capacity	PRED (r	/w)		Details P					
Pump	Avg.	Vol	Pump Avg. Days Vol						
Capa	Hours/d		Capa	Hrs/day	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18.48	16	9166.08	18.48	6.13	31	3511.75	4474		
			н 1						
			ł		÷				
	1								
	1							r	
			,						
				L					
Total		9166.08		<u> </u>		3511.75	4474	68.3	26.2
1 - Contraction of the local division of the local division of the local division of the local division of the		ity Vs Pu	mped V		in the second				
Infrastru	icture			Actually	Pumpec	i ,	l		
Capacit	y PRED (Details F	PRED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hours/d	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18	16	8928	18	5	31	2790	4474	66.5	20.8
Total		8928			1	2790	1174	66.5	20.8

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	9166.08	351 1.75
C/w Vol Cum	8928	2790
R/w LPCD	68.3	26.2
C/w LPCD	66.5	20.8

Details	Capacit	Pumpe	c/w /cap
R/w Vol Cum	100%	38%	
C/w Vol Cum	100%	31%	30%
R/w LPCD	100%	38%	
C/w LPCD	100%	31%	

Scheme : MVPalem District : Month :

Prakasam Aug 96

Pumping capacity Vs Pumped Volume (R/W)

	And in case of the local division of the loc								
Infrastru	cture			Actually	Pumped	l	<u> </u>		
Capacity	y PRED (I	<u>r/w)</u>	<u> </u>	Details F	PRED (r/v	<i>N</i>)	l		- 10 - 10 - 10
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			,
Capa	Hours/d		Capa	Hrs/day	pump	1		Cap	Act
Cum/hr	<u> </u> '	Cu.m	Cu.m	· ·		Cu.m	Popul	LPCD	LPCD
18.48	16	91 66.08	18.48	4.87	31	2789.92	4474		
	,				I	!			
			l		1				{ !
					1				
•	!		ĺ	[· · ·]			'	!	
			L		·		L'	<u> </u>	
							['		
	1		1	1 . 1	1		'		
	!				i . I			!	
	<u> </u>						$\lfloor _$		
Total		9166.08				2789. 92	4474	68.3	20.8
Pumpin	g capaci	ity Vs Pu	mped Ve	olume ((C/W)				
Infrastru	cture			Actually	Pumped				
Capacity	y PRED (a	c/w)	Details PRED						
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d	{ }	Capa	Hours/d	nump	i <i>I</i>	l '	Cap	Act

Capa	nours/a		Capa	nouis/a	pump			Cap	ACI
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18	16	8928	18	4.5	31	2511	4474	66.5	18.7
i									4
Total		8928				2511	4474	66.5	18.7

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	9166.08	2789.92
C/w Vol Cum	8928	2511
R/w LPCD	68.3	20.8
C/w LPCD	66.5	18.7

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	30%	
C/w Vol Cum	100%	28%	27%
R/w LPCD	100%	30%	
C/w LPCD	100%	28%	

Scheme : MVPalem District : Prakasam Month :

Sep 96

Pumping capacity Vs Pumped Volume (R/W)

•										
					Pumped	Actually I			cture	Infrastru
				v)	RED (r/w	Details P	_	/w)	PRED (r	Capacity
				Vol	Days	Avg.	Pump	Vol	Avg.	Pump
	Act	Cap			pump	Hrs/day	Capa		Hours/d	Capa
	LPCD	LPCD	Popul	Cu.m			Cu.m	Cu.m		Cum/hr
0.483333			4474	3038.11	30	5.48	18.48	8870.4	16	18.48
							· · ·			
									/	↓
										ана (1997) Алгана Ала Алгана Ала Алгана Алгана Алгана Алгана Алгана Алгана Алгана Алгана Алгана Алгана Алгана Алгана Алгана Ала Ала Ала Ала Ала Ала Ала Ала Ала Ал
					1000 F				·	
	22.6	66.1	4474	3038.11				8870.4		Total
=					C/W)	olume ((mped V	ity Vs Pu		
				1	•	Actually				Infrastru
			<u></u>		RED	Details F			<u>PRED (</u>	Capacit
				Vol	Days	Avg.	Pump	Vol	Avg.	Pump
	Act	Сар	ļ	Į	pump	Hours/d	Capa		Hours/d	Capa
]	LPCD	LPCD	Popul	Cu.m			Cu.m	Cu.m		Cum/hr
	18.3	65.2	4474	2451.45	30	4.48	18.24	8755.2	16	18.24
				-						
			<u> </u>					<u> </u>	· ·	ļ
	18.3	65.2	4474	2451.45			l	8755.2		Total

At a Glance comparison

Details	Capacit	Pumpe	
R/w Vol Cum	8870.4	3038.11	
C/w Vol Cum	8755.2	2451.45	
R/w LPCD	66.1	22.6	
C/w LPCD	65.2	18.3	,
Comparison in	percenta	ges	· .
Details	Capacit	Pumpe	<mark>c/</mark> w/cap
R/w Vol Cum	100%	34%	
C/w Vol Cum	100%	28%	28%
R/w LPCD	100%	34%	
C/w LPCD	100%	28%	

ANALYSIS WATER SUPPLY FORMATS

NGO : ASSIST

PROJECT : PARACHUR AP II

MONITORED BY : NAPO

DATA SOURCE : VILLAGE COMMITTEES THROUGH NGO

No	VILLAGE	SCHEME	4/96	4/96	5/96	5/96	6/96	6/96	7/96	7/96	8/96	8/96	9/96	9/96
	· · · ·		DAYS	ALPC	DAYS	ALPC	DAYS	ALPC	DAYS	ALPC	Days	LPCD	DAYS	ALPC
1	SHYAMALAVPALEM	ABPALE	6	?	7	?	4	?	0	0	0	0	5	?
2	PASUMARRU	ABP(RWA	26	5	0	0	0	0	0	0	0	0	24	5
3	MVPALEM	MVPALE	30	49	31	49	30	49	31	49	31	49	30	49
4	CHILUKURIVPALEM	ABP(RWA	30	24	31	24	28	22	31	24	14	11	23	18
5	KATARIVARIPALEM	MVPALE	30	49	31	49	30	49	26	41	0	0	30	49
6	TANUBODDIVPALE	MVPALE	30	49	30	47	30	49	31	49	31	49	30	49
7	VINJANAMPADU	ABP(RWA	26	24	30	26	25	23	28	25	21	18	27	24
8	YADDANAPUDI	ABP(RWA	30	29	31	29	20	20	0	0	17	16	30	29
9	POLUR	ABP(RWA	30	17	31	17	30	17	31	17	28	15	30	17
10	ANANTAVARAM	ABP(RWA	30	26	30	25	30	26	0	0	0	0	30	26
11	CHIMATAVARIPALE	MVPALE	30	49	30	47	30	49	31	49	31	49	30	49
<u> </u>	Scheme wise	ABPalem		12.0		18.0		15.9		15.1		24.7		10.1
		MVPalem		49		48		49		47		49		49

ALPCD is average LPCD for month based on no. of days supplied

In Shyamalavaripalem water supply is not reliable. No of days supply is maximum of 7 days/month.

In Shyamalavaripalem there was no water supply as SST was dry during those months in ABPalem scheme.

In Pasumarru therte was no water supply between May 96 to Aug 96 as there is no water in the SST.

In Anantavaram there is no supply as SST was empty in July and SSTis being cleaned up in Aug 96.

In Katarivaripalem pipe line brekage caused disruption in supply in Aug 96

For Shyamalavaripalem ALPCD is not calculated as it does not contain service reservoir.

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Annexure 3.11

Scheme :	MV	Pale	m	•	

District : Prakasam Month : Apr,96

Pumping capacity Vs Pumped Volume (R/W)

Infrast	ructur	e	Actually Pumped						
Capac	ity PR	ED (r/w	<u>i</u>	Details PRED (r/w)					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hour		Capa	Hrs/day	pum			Сар	Act
Cum/		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18 .48	16	8870.4	18.4 8	6	30	3326.4	4474		
			.						
					!				
			·						
· ·				· .					
		.							
·				!					
Total		8870.4				3326.4	2474	119.5	44.8
Pump	ing ca	apacity	Vs Pump	ped Volur	ne (C	;/W)			
Infrast	ructur	e		Actually I	Pumpe	ed			
Capac	ity PP	RED (c/		Details P	RED				·
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			<u> </u>
Capa	Hour		Capa	Hours/d	pum			Cap	Act
Cum/		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
21.84	16	10483.	21.84	5	30	3276	4474	78.1	24.4
Total		10483.			1	3276	2478	141.0	44.1

At a Glance comparison

Details	Capaci	Pumpe
R/w Vol Cu	8870.4	3326.4
C/w Vol Cu	10483.	3276
R/w LPCD	119.5	44.8
C/w LPCD	141.0	44.1

	Capaci	Pumpe	c/w/cap
R/w Vol Cu	100%	38%	
C/w Vol Cu	100%	31%	37%
R/w LPCD	100%	38%	
C/w LPCD	100%	31%	

- · ·	Analysis Ca	Analysis Capacity Vs Pumping of water						
Scheme :	MVPalem	District :	Prakasam					
		Month :	May 96					

				N. N. STATE					
Infrastru	ucture			Actually Pumped					
Capacit	y PRED (r/w)		Details I	PRED (r/	w)			
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hrs/day	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18.48	16	9166.08	18.48	6.43	31	3683.61	2474		
§									
la tenerali. Na tenerali							Į		
Total		9166.08				3683.61	2474	123.5	49.6
Pumpin	g capaci	ty Vs Pu	mped Ve	olume (C	C/W)		· <u>·····</u>		ئ <u>ىمەن ، مەمە</u> ت
Infrastru	cture			Actually	Pumped				
Capacity	apacity PRED (c/w)			Details F	RED]
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hours/d	pump			Сар	Act
Cum/hr		. Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18	16	8928	18	5.5	31	3069	4474	66.5	22.9
Total		8928				3069	2474	120.3	41.4

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	9166.08	3683.61
C/w Vol Cum	8928	3069
R/w LPCD	123.5	49.6
C/w LPCD	120.3	41.4

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	40%	
C/w Vol Cum	100%	34%	33%
R/w LPCD	100%	40%	
C/w LPCD	100%	34%	

Scheme	:	Mν
SCHEINE	•	191.9

/Palem

District : Prakasam Month :

2960.35 2474 118.0

39,9

June 96

Pumping capacity Vs Pumped Volume (R/W)

Infrastructure Actually Pumped									
				Details P					
	Capacity PRED (r/w)								
Pump	Avg.	Vol	Pump	Avg.	Days	Vol		_	
Capa	Hours/d		Capa	Hrs/day	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18.48	16	8870.4	18.48	6.61	30	3664.58	2474		
									
		a she ar			•				
					<u></u>				
Total		8870.4				3664.58	2474	119.5	49.4
Pumpin	g capaci	ty Vs Pu	mped Ve	olume (C	C/W)				
Infrastru	nfrastructure			Actually	Pumped				
Capacity	Capacity PRED (c/w)			Details F	RED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hours/d	pump	ļ		Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18.24	16	8755.2	18.24	5.41	30	2960.35	2474	118.0	39.9
				i i				-	
1]						

0.416667

0.616667

At a Glance comparison

Total

Details	Capacit	Pumpe
R/w Vol Cum	8870.4	3664.58
C/w Vol Cum	8755.2	2960.35
R/w LPCD	119.5	49.4
C/w LPCD	118.0	39.9

8755.2

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	41%	
C/w Vol Cum	100%	34%	33%
R/w LPCD	100%	41%	
C/w LPCD	100%	34%	

Analysis Capacity Vs Pumping of water					
Scheme :	MVPalem		District :	Prakasam	
			Month :	July 96	

0.133333

Pumping capacity Vs Pumped Volume (R/W)

Infrastru	Infrastructure			Actually Pumped					
Capacit	y PRED (r/w)		Details f	PRED (r/	w)			
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hrs/day	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18.48	16	9166.08	18.48	6.13	31	3511.75	2474		
								ĺ	
							1		
-			•						
Total		9166.08				3511.75	2474	123.5	47.3
Pum pin	g capaci	ty Vs Pu	mped V	olume (C	C/W)				
Infrastru	nfrastructure			Actually	Pumped				
Capacity	apacity PRED (c/w)			Details PRED					
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Сара	Hours/d		Capa	Hours/d	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
18	16	8928	18	5	31	2790	2474	120.3	37.6

2790

2474

120.3

37.6

At a Glance comparison

Total

Detail s	Capacit	Pumpe
R/w Vol Cum	9166.08	3511.75
C/w Vol Cum	8928	2790
R/w LPCD	123.5	47.3
C/w LPCD	120.3	37.6

Comparison in percentages

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	38%	
C/w Vol Cum	100%	31%	30%
R/w LPCD	100%	38%	
C/w LPCD	100%	31%	

8928

Scheme :	MVPalem	Dis	strict :	Prakasam
		Mo	onth :	Aug 96

Pumping capacity Vs Pumped Volume (R/W)

1

Infrastru	cture		Actually Pumped				· <u> </u>	<u> </u>	
	Capacity PRED (r/w)			Details P	•	1	ļ		
				Avg.	Days	Vol			┟─────
Pump	Avg.	VOI	Pump		-	V01		Com	A
Capa	Hours/d		•	Hrs/day	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m		LPCD	LPCD
18.48	16	9166.08	18.48	4.87	31	2789. 92	2474		
					. <u> </u>				
]			
					· ·				
Total		9166.08				2789.92	2474	123.5	37.6
Pumpin	g capaci	ty Vs Pu	mped V	olume (C	C/W)				
Infrastru	icture			Actually	Pumped				
Capacity	PRED (c/w)		Details F	RED				-
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/d		Capa	Hours/d	pump			Cap	Act
Cum/hr		Cu.m	Cu.m		-	Cu.m	Popul	LPCD	LPCD
18	16	8928	18	4.5	31	2511	2474	120.3	33.8
	· · · ·				·				ľ
Total		8928				2511	2474	120.3	33.8

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	9166.08	2789.92
C/w Vol Cum	8928	2511
R/w LPCD	123.5	37.6
C/w LPCD	120.3	33.8

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	30%	
C/w Vol Cum	100%	28%	27%
R/w LPCD	100%	30%	
C/w LPCD	100%	/ 28%	

Scheme : **MVPalem**

District :	Prakasam
Month :	Sep 96

Pumping capacity Vs Pumped Volume (R/W)

										_
Infrastru	ucture			Actually	Pumped	d	ſ			
Capacit	y PRED ((r/w)		Details I	PRED (r/	w)	ľ			J .
Pump	Avg.	Vol	Pump	Avg,	Days	Vol				(
Capa	Hours/d		Capa	Hrs/day	pump			Cap	Act	
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
18.48	16	8870.4	18.48	5.48	30	3038.11	2474	1		0.483333
					1					
			·							
Total		8870.4				3038.11	2474	119.5	40.9	
Pumpin	g capaci	ity Vs Pu	mped V	olume (C/W)	<u> </u>	<u>, </u>		<u> </u>	
Infrastru	cture			Actually	Pumped		<u></u>			
Capacity	PRED (c/w)		Details F	RED				·	
Pump	Avg.	Vol	Pump	Avg.	Days	Vol				
Capa	Hours/d		Capa	Hours/d	pump			Cap	Act	· · ·
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD	
18.24	16	8755.2	18.24	4.48	30	2451.45	2474	118.0	33.0	
Total		8755.2				2451.45	2474	118.0	33.0	1

At a Glance comparison

Details	Capacit	Pumpe
R/w Vol Cum	8870.4	3038.11
C/w Vol Cum	8755.2	2451.45
R/w LPCD	119.5	40.9
C/w LPCD	118.0	33.0

Details	Capacit	Pumpe	c/w/cap
R/w Vol Cum	100%	34%	
C/w Vol Cum	100%	28%	28%
R/w LPCD	100%	34%	
C/w LPCD	100%	28%	

Annexure 3.12

Analysis Capacity Vs Pumping of water

Scheme : Cherukuru	District :	Prakasam
	Month :	Apr 96

Pumping capacity Vs Pumped Volume (R/W)

<u> </u>				iiped vo		<u></u>			
Infras	frastructure Actually Pumped								
	Capacity PRED (r			Details P	RED				
Pum	Avg.	Vol	Pump	Avg.	Day	Vol			
Cap	Hour		Capa	Hrs/day	pum			Cap	Act
Cum		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
45. 5	16	21859.	45.54	5.66	30	7732.6	1477		
	-	ļ							
								_	
		:							
				· · · ·					
Total		21859.				7732.6		49.30	17.4
Pum	ping	capacit	y Vs Pu	mped Vo					
Infras	struct	ure		Actually Pumped					
		RED (Details F	RED				
Pum	Avg.	Vol	Pump	Avg.	Day	Vol			
Cap	Hour	1	Capa	Hours/d	pum			Cap	Act
Cum		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
15.6	16	7516.8	15.66	5.67	30	2663.7	4222	59.3	21.0
43.3	16	20793.	43.32	6.45	30	8382.4	1055	65.7	26.5
Tota		28310.				11046.	1477	63.9	24.9

At a Glance comparison

Details	Capac	Pumpe				
R/w Vol C	21859.	7732.7				
C/w Vol C	28310.	11046.				
R/w LPCD	49.3	17.4				
C/w LPCD	63. 9	24.9				
Comparison in percentag						

Comparison in percentages Details Capac Pumpe c/w/cap R/w Vol C 100% 35% 35% C/w Vol C 100% 39% 51% R/w LPCD 100% 35% 35% C/w LPCD 100% 39% 51%

	Analysis Capacity Vs Pumping of water					
Scheme :	Cherukuru	District :	Prakasam			
		Month :	May,96			

ì

Pumping capacity Vs Pumped Volume (R/W)

<u>rumpn</u>	ig capa	city var	umpeu	volume					
	Infrastructure			Actually Pumped					
Capacit	Capacity PRED (r/w)			Details	PRED (r	/w)			·
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hrs/da	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
45.54	16	22587.	45.54	7.33	10	3338.0	14777		
)] .			}
						· ·			. ·
		1		· · ·	ŀ .	1			{
· · ·									
					1 - A - A - A - A - A - A - A - A - A -	l			1
							ļ	ļ	1. A
Total		22587.				3338.0	14777	50.952	7.5299
Pumpin	ig capa	city Vs F	umped	Volume	(C/W)				
Infrastru	ucture			Actually	Pumpe	d			
Capacit	Capacity PRED (c/w)			Details	PRED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hours/	pump			Сар	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
15.66	16	7767.3	15.66	4.45	30	2090.6	4222	61.3	16.5
43.32	16.	21486.	43.32	6.44	31	8648.4	10555	67.9	27.3
							·		
Total		29254.				10739.	14777	66.0	24.2

At a Glance comparison

Details	Capacit	Pumpe				
R/w Vol Cum	225 87.	3338.0				
C/w Vol Cum	29254.	10739.				
R/w LPCD	51.0	7.5				
C/w LPCD	66.0	24.2				
Comparison in percentages						
Details	Canacit	Pumpe C	w			

Details	Capacit	Pumpe	c/w/ca
R/w Vol Cum	100%	15%	
C/w Vol Cum	100%	37%	48%
R/w LPCD	100%	15%	
C/w LPCD	100%	37%	

· · · · · · ·	Analysis (Capacity Vs Pumping (of water
Scheme :	Cherukuru	District :	Prakasam
		Month 1	Jun 06

Pumping capacity Vs Pumped Volume (R/W) Infrastructure Actually Pumped Capacity PRED (r/w) Details PRED (r/w) Pump Avg. Vol Pump Avg. Days Vol Capa Hrs/da Capa Hours/ pump Cap Act Cu.m Popul LPC LPC Cum/hr Cu.m Cu.m 16 21859. 45.54 45.54 26 10301. 1477 8.7 Total 21859. 10301. 1477 49.3 23.2 Pumping capacity Vs Pumped Volume (C/W) Infrastructure Actually Pumped

initiastructure			Actually Fulliped						
Capacity	y PRED	(c/w)		Details I	PRED				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hours/	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPC	LPC
15.66	16	7516.8	15.66	3.75	25	1468.1	4222	59.3	11.6
43.32	16	20793.	43.32	5.57	26	6273.6	1055	65.7	19.8
Total		28310.				7741.7	1477	63.9	17.5

At a Glance comparison

Details	Capacit	Pumpe			
R/w Vol Cum	21859.	10301.			
C/w Vol Cum	28310.	7741.7			
R/w LPCD	49.3	23.2			
C/w LPCD	63.9	17.5			
Comparison in percentages					

		¥	
Details	Capacit	oumpe	c/w/ca
R/w Vol Cum	100%	47%	
C/w Vol Cum	100%	27%	35%
R/w LPCD	100%	47%	
C/w LPCD	100%	27%	

Scheme :	Cherukuru		District :	Prakasam
		н. 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 -	Month :	July,96

Pumping capacity Vs Pumped Volume (R/W)

Infrastructure			Actually Pumped						
Capacit	ty PRED	(r/w)	Details PRED (r/w)						
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hrs/da	pump	}		Сар	Act
Cum/hr		Cu.m	Cu.m	 		Cu.m	Popul	LPCD	LPCD
45.54	· 16	22587.	45.54	5.73	31	8089.2	1477		
					l				
			ĺ						
		}				· ·			
						1			
									
Total	<u> </u>	22587.		[<u> </u>	8089.2	1477	51.0	18.2
		city Vs P	umped						
Infrastru			Actually Pumped						
	y PRED	the second se	Details PRED						
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
4 -	Hours/	Į I	Capa	Hours/	pump			Сар	Act
Cum/hr		Cu.m	Cu.m				Popul	LPCD	LPCD
15.66	16	7767.3	15.66	5.75	31	2791.4	4222	61.3	22.0
43.32	16	21486.	43.32	4.7	30	6108.1	1055	67.9	19.3
						[
Total		29254.			[8899.5	1477	66.0	20.1

At a Glance comparison

Capacit	Pumpe
22587.	8089.3
29254.	8899,5
51.0	18.2
66.0	20.1
	22587. 29254. 51.0

Details	Capacit	Pumpe	c/w/ca
R/w Vol Cum	100%	36%	
C/w Vol Cum	100%	30%	39%
R/w LPCD	100%	36%	
C/w LPCD	100%	30%	

Scheme :	Cherukuru	-	 District :	Prakasam
			 Month :	Aug 96

Pumping capacity Vs Pumped Volume (R/W)

rumping capacity vs rumped volume (r/w)									
Infrastructure				Actually	•				
Capacity PRED (r/w)				Details F	PRED (r/				
Pump	Avg.	Vol	Pump	Avg.	Days	Vol			
Capa	Hours/		Capa	Hrs/da	pump			Cap	Act
Cum/hr		Cu.m	Cu.m			Cu.m	Popul	LPCD	LPCD
45.54	16	22587.	45.54	8.65	30	11817.	14777		
	1								
					а. А. С.			· .	
	1							}	}
								}	
Total		22587.				11817.	14777	51.0	26.7
Pumpin	ig capa	city Vs F	umped	Volume					
Infrastru	ucture		Actually Pumped						
Capacit	y PRED			Details PRED			l		
Pump	Avg.	Vol	Pump	Avg.	Days	Vol		[1
Capa	Hours/		Capa	Hours/	pump			Cap	Act
Cum/hr		Cu.m	Cu.m	ļ		Cu.m	Popul	LPCD	LPCD
15.66	16	7767.3	15.66	6.16	29	2797.5	4222	61.3	22.1
43.32	16	21486.	43.32	6	30	7797.6	10555	67.9	24.6
	Į	l	Į						
Total		29254.				10595.	14777	66.0	23.9

At a Glance comparison

Capacit	Pumpe
22587.	11817.
29254.	1 059 5.
51.0	26.7
66.0	23.9
	22587. 29254. 51.0

Details	Capacit	umpe	c/w /ca
R/w Vol Cum	100%	52%	
C/w Vol Cum	100%	36%	47%
R/w LPCD	100%	52%	
C/w LPCD	100%	36%	

ANNEXURE IV

REPORT ON WORKSHOP ON COMMUNICATION METHODS

REPORT ON

THE WORKSHOP ON

"COMMUNICATION METHODS"

17 July 1996

NAPO, HYDERABAD

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REPORT ON THE WORKSHOP ON " COMMUNICATION METHODS " 17 JULY 1996, NAPO, HYDERABAD

Introduction:

The NGOs involved in the RWS and Sanitation programme are basically involved in education, motivation and awareness building exercises as part of their on going activity. Different strategies are adopted by them to ensure participation of the beneficieries. Over a period there is a possibility of the methodology becoming stereotyped and obsolete which may result in the community interest dwindling unless immediate sringent measures are taken by the groups involved to explore possibilities of adopting and practising other possible methods of communication.

NAPO as a monitoring office has the responsibility of capacity building of the project staff. The workshop was organised as an answer to this need.

Objectives of the workshop:

- i.To review and asses the validity of the methods being used hitherto by the NGOs.
- ii.Expose the participants to other participatory mmethods of communiation.

Participants Details:

The projects were represented by the Project Directors/Project Holders, Project Coordinators and the NAP desk in charge.

Three students from New Castle University England participated in the second half.

(List of Participants enclosed - Annexure I).

Resource Persons:

Mr.	Venkat Ramanayya	YFA, Hyderabad
Dr.	Rayanna	RCUES, Hyderabad

The Team Leader delivered the inaugural address. The SPC and the SPOs were the co resource persons.

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Methodology:

Participatory methodology Open group and small group discussions. Hand outs were given for further reading.

Issues for discussion:

(Agenda Annexure II).

Session I:

Mr. Venkat Ramanayya handled session I. He breifly introduced the importance and relevance of communication in todays world. He stressed the need for one to have an open mind in order to imbibe knowledge. The role and definition of communication was explained to the group. After the introduction he engaged the group in a group exercise.

The group was divided into two smaller groups and was asked to discuss for fifteen minutes the following two issues; i. Definition of communication ii. Definition of Development communication

The group findings are as below;

On communication:

- Group I:- a process of information exchange (orally or actions/Tools)
 - a way of expression.
- Group II:- a process to disseminate information to the communities and listen back from them to initiate the action
 - is a process of exchanging information and tools used for the same
 - is a process of exchanging ideas feelings and me
 - SS
 - a g e s

On Development communication:

Group I: - tool /catalyst to bring change/ accelerate the process of change (attitude/behaviour)

Dev.	Comunication					
1. J. J.	Change F <u>XX</u> -1	Attitude/ Behaviour	>	Social Political Economical Cultural		

Individual

Community

Group II: -is a process in which we learn from the people, which can be spread among them - the meaning of development in their languages at their level of understanding

- is a purposefull and direction oriented process of exchange of information to initiate changes in the status of communities.

The group presentations were summarised. The importance of the messages was highlighted. The fact that the messages are prepared by the project personnel with a particular perception in mind and perceived by the community from a different frame of mind was

stressed. The need to keep in mind the level of perception of the giver and the receiver was discussed. The usage of words like provider, equality and the kind of reference in the minds of the people based on the philosophy and understanding of the donor and perculating down to the project holder was emphasised.

The exercise was summed up by reiterating that all development communication aims at bringing about change among the women, landless, farmers and at the higher levels among the Donors and the Government.

The other points covered included;

- communication for capacity buildingthe different levels of communication
- constraints in communication
- conditions for effective communication
- multiple pathways of communication
- locations and sources for information dissemination and the communication needs in water supply and sanitation.

Session II:

The second session dealt with the different ways in which communication takes place in the projects. The group was again divided into two and asked to discuss on the following;

i. People to people

ii. People to NGO (vice versa)

iii.People + NGO to Donor/ decision maker

The group presentations are as below:

Group II

People to people:

* People Institutions

Group I

* Working places

Identification of the communicator /institution by the people

Communicator/institution should be effective and unbiased Informal get togethers, regular meetings, cultural activities.

People to NGO:

* Mass/group meetings

Peoples observation/ representation

informative

Accessibility, availability,

* House visits

* Campaigns/Rallies

* Cultural programs

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- * Networking
- * PRA

People + NGO to Donor:

* Correspondence

Togetherness of NGO and people to bring attitudenal change in the policy makers

- * Meetings
- * Trainings
- * Networking
- * Evaluation of reviews
- * Pre funding meetings

The session was summed up by giving the group handouts on the session. The need for adopting participatory methods was reiterated. The effectiveness of PRA was breifly touched upon and the need for intensive training in the methodology before it is practised was stressed.

Handouts 1 - Annexure II

Session III:

The forenoon session was handled by the SPC. The main points discussed during the session were;

- the different type of communication tools available and usefull for the projects,
 - the five Ws that need to be kept in mind while planning for development communication
- the need to keep the goal/ purpose of the exercise in mind whether the communication media aims at bringing about behavioural change, change in the practices of people or change in attitude (introspection). Based on this theme the methodology to be adopted can be decided on.
- the other two factors to be kept in mind are the Agent factor and the Target group factor.
- the Agent or the worker is the one who is in direct contact with the community. It is essential that the agent has the right attitude and orientation and the required commitment to the cause.
- the worker who is not convinced and does not feel for the cause can not convince the community nor even evince interest.
- the target group factor comprises of the the target group for whom the programmes are planned. The awareness building exercises should start at the appropriate time. It is necessary that the target group be properly understood ie.the attitudes, beleifs, existing practices, expectations,

willingness to participate and the ability to participate are some of the important aspects to be looked into before development communication is planned.

The different techniques to be followed while planning for development communication were discussed:

- all techniques need to be simple and direct
- there is need to involve the participation of the target group
- it should be need based
- the programmes should have a personal touch
- they should be of high communication value

- suitable for each specific target group.

Session IV:

The post lunch session was handled by Dr.Rayanna.He started the session by inviting the participants to list out the problems faced in the feild in communicating with different groups. The main issues discussed were:

- experimental learning
- communication barriers
- different training methods
- cultural programmes
- group discussions
- model for demonstrations

The participants were asked to reflect and present the effective and non effective methods of communication as perceived by them. The presentation was as follows:

Topic

Effective method

Ill effect of fluoride Water borne deseases Village sanitation Ecology and Environment Health and Hygeine Group formation Self help groups Water and Sanitation Personal Hygeine Raising contributions About NAPscheme Judicious use of water

Demonstration Slides/charts Models Rallies Videos House visits and mass meetings Songs Slogans Examples Group discussions Exposure visits Slogans/group discussions roleplay

The group came to a concensus that it was not a hard and fast rule that the same hold good for all times. Depending on the group their interest and the availability of time these methods would be interchanged. The probable use of the other methods was also discussed and the group was asked to try and prepare the other methods. As an example the making and use of the flannel boards and making simple hand puppets was breifly expalined.

In the concluding session the methods to be followed in communication was highlighted. With simple examples and demonstrations the dos and donts of communication was discussed.

Session V:

The handouts were briefly explained and the participants requested to update their knowledge and information by regular contacts with other agencies and referring to relevant material.

Handouts 2 - Annexure III

The workshop concluded with the participants being asked to give an oral feedback on the deliderations of the day.

The main points that emerged:

- morning session was general, interesting and informative.
- noon session specific and informative though at times tended towards being generic
- helped to know about other communication methods
- a better understanding of the dos and donts of effective communication.

The participants were also of the opinion that the background material be sent to them in advance.

Outcome:

* Efforts would be made by the partner NGOs to incorporate the various communication methods in their programme.

* To the maximum extent possible the approaches would be participatory ensuring the involvment of the target community members.

* Possibilities for using cost effective methods would be explored.

ANNEXURE I

	Herself	Dr. Rajasekhar-Honorary Director
		Mr. Anil Babu- Project Coordinator
1. S	SNIRD	Mr. Jawahar - Executive Secretary
		Mr. Jayant - NAP Desk in charge
		Mr. Tajuddin - Project Coordinator
		Mr.Rama Rao - Accountant
	ASSIST	Mr.Koteswara Rao -Technical Coordinator
	MARI	Mr. Jayarama Rao - Project Director
	an an ar an an ann an Arrainn An an Arrainn an Arrainn An Arrainn	Mr. Pawan Kumar - Project Coordinator
1.	Students from New	Castle University Ms. Katie Walker
		Ms. Emma Miller
Υ.		Mr. Danial Tustain
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WORKSHOP ON "COMMUNICATION METHODS" 17 July 1996, NAPO, Hyderabad

PROGRAM

0930 - 0945 :	Registration
0945 - 1000 :	Tea Break
1000 - 1015 :	Introduction
1015 - 1215 :	Session - I
	Communication Methods - Emphasis on Participatory Methods - Sri Venkat Ramanaiah
1215 - 1300 :	Session - II
	Open group discussion - Relevance of methods and adapting to present situation
1300 - 1400 :	Lunch Break
1400 - 1500 :	Session - III
an an an an Araba an Araba an Araba an Araba	Communication methods - continued
1500 - 1515 :	Tea Break
1515 - 1615 :	Awareness Building - adapting communication methods
	Sharing of experiences and reflection
1615 - 1645 :	Preparation and presentation of Action Plans
1645 - 1700 :	Concluding session

ROLE OF COMMUNICATION:

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"Communication can play a major role in empowering the disadvantaged communities, providing a voice to the voiceless and enabling communities to voices their concerns to decision makers."

COMMUNICATION FOR CAPACITY BUILDING

==>

Related to implementation of action plans, mostly physical work.

==> Implementation of communication process for awareness generation and capacity building of NGOs as well as local level institutions.

DIFFERENT LEVELS OF COMMUNICATION

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-> Namashkaram, and asking welfare of one or two individuals.

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- -> Small key informants discussion.
- -> General about welfare, the existing situation
- -> More specifically family wise informations
- -> Togetherness, "we" feeling and working together

	CON	STRAINTS
	->	Due to technical barriers
	->	Reluctant to share the information.
L.,	->	Lack of communication culture
	->	Ignorance
	->``	Lack of experience in communication
	->	Lack of awareness concerning to value of information
	->	Lack of editorial skills
	->	No efforts are made to share the information
	->	Attitudinal and ideological problems etc.,

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CONDITION	S
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- -> Gender perspective
- -> Must be open
- -> Pluralistic
- -> Respectful to diversity
- -> Freedom of expression and thoughts

MULTIPLE PATHWAYS OF COMMUNICATION

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-> Gender

- -> Kinship
- -> Age, Religion and Others

		Me	n groups		Women a	<u>iroups</u>
formal institu	tions 1		10	* . 	3	
Kinship (famil	y & elders)		13		10	an An an
roup members	(men:extension	· · · · ·	•			
groups, women:	work groups)	· · · ·	1		7	
riends/neighb			6		1	
People in mark?	et/merchants		5		1 1	
larabout			2		-	
Others			3	1 A. 1997		1

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Extension needs

SEASON	CROP	1	EXTENSION NEEDS (PEST MANAGEMENT)			
		Pest & Disease	Present applications	Source of communication		
January	-> Groundnut	Tikka diseases (Early & late)	D-M-45	Shops, VDO's farmer to farmer		
		Leaf spot,				
		leaf webber	Quinolphos			
	-> Paddy	Tungro virus	Monocrotophos, phosphomidon	and a state of the s The state of the state		
February	-> Paddy	Dead hearts,	Monoportorbas	Francis to francis		
sectuary	-> raddy	(Stem Borer)	Monocrotophos, Pherate-G	Farmer to farmer		
		Blast	Bavistin			
March	-> Groundnut	Leaf minor	Quinophos	Farmer to farmer		
	-> Paddy	Gall fly	Monocrotophos			
June	-> Paddy	Blast	Bavistin	- shops - famer to famer		
	-> Groundnut	Leaf minor root grub	Quinophos Pherate-G	- Karshak parished		
July	-> Groundnut	Root grub,	Pherate	- Shops		
to August		Leaf minor, Red Hairy	Quinolphos, B.H.C 10% B.H.C.	- farmers - Karshak parished		
Sugus C		Catterpillar	10% D.n.C.	- Naishak parished		
	-> Castor	Red Hairy	10% B.H.C.	an a		
	· · · · · · · · ·	Catterpillar	,, _,, _			
		Semilooper	Fenvaltrate-20 EC			
	-> Paddy	Leaf hoppers,	Monocrotophos			
, i di secondo de la composición de la La composición de la c		Stem Borer,	Phophomiden			
		Turgro virus, Gall fly				
	an a	wall lly				
November	-> Groundnut	Tikka Disease	D-M-45	- shops		
to Decemb er		(early & late leaf spot)		- VDO's - Sub.Asst's		
		Leaf minor	Quinolphos	(Karshak Parished - farmers		
	-> Paddy	Leaf hoppers	Monocrotophos			
		Blast	Phosphomidon Phosphomidon	an a		
		Tungro virus	Phosphomidon	-		

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SEVERAL LOCATIONS AND SEVERAL SOURCES

Women Groups (Communication and exchange of information)

- -> Group meetings
- -> Shandy

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- -> During transplantation and harvesting
- -> During water collection and washing of clothes
- -> During functions
- -> Enroute to fields and during founding of grains.

Communication Needs in water supply and sanitation

- -> Social process
- -> Responsibility sharing for maintenance
- -> Training
- -> Selection of points for water source
- -> Follow-up activities
- -> Self-assessment and evaluation
- -> Linkage building

COMMUNICATION NEEDS FOR DIFFERENT ACTORS IN DEVELOPMENT

AT NGO TO NGO LEVEL:

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- -> NGO to NGO networks
- -> Electronic communications
- -> News-letter
- -> Trainings and workshops
- -> Get-togethers
- -> Issue based movements
- -> Correspondence
- -> Field based case experiences and exposure visits
- -> Documentation of traditional technologies etc.,

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PRA

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PEOPLE AND NGO'S

- a) Training
- -> Experience Sharing
- -> Raising awareness about political, social, economic and environmental issues

Role plays (Dynamics of issues and society)

-> Drawas

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-> Flip charts

Physical demonstrations (Water, milk and kichidy)

- -> Songs
- -> Puppetry
- -> Science stories
- -> Radio and video
- -> Karyakarthas meetings
- -> Cluster meetings
- -> Networking of rural organisations
- -> PRA

PEOPLE, NGOS AND POLICY MAKERS

- -> Participatory workshops
- -> Publication of case experiences
- -> Advocacy for people oriented solutions
- -> Networks and pressure groups
- -> Print, electronic and other media.

IMPORTANT CONSIDERATIONS FOR OVERALL COURSE PLANNING

- A. Planning to be done before the training course begins:
- 1. FIRST CONSIDERATIONS-PURPOSES AND GUESTIONS
- Whose needs will the training program be primarily designed to meet?
- W.B it only extend the existing health system, or will it help to change it?
- How much will it prepare the health worker to understand and deal with the social (economic, cultural, political) causes of ill health?
- Will it make the poor more dependent, or help them to be more self-reliant? Will it promote or resist social change?
- What are the general goals and objectives of the program? (To express goals in terms of numbers and dates is probably unwise at this stage, Why?)
- Who is (or should be) involved in all these decisions?



2. OBSERVATION OF NEEDS AND RESOURCES (Talking with a few observant persons from the area can often provide more useful information than a census or elaborate 'community diagnosis', at far lower cost, more quickly, and with less abuse.)

Information worth considering:

- Common health problems: how frequent and how serious?
- Causes of main problems: physical and social,
- coming from inside and outside the community.
- People's attitudes, traditions, and concerns.
- Resources: human, physical, economic, from inside and outside the area.
- Characteristics of possible health workers: age, experience, education, interest, etc.
- Possible choices of instructors and training organizers.
- Possible sources of funding and assistance. (Which are more appropriate?)
- Reports and experiences of other programs.
- Obstaclest certain, likely, and possible.

3. EARLY DECISIONS-

- Who? Where? How many? When?
- Selection of health workers: by the community, by the health program, or by both? (How can selection of a health worker be a learning experience for the community?)?

- Selection of instructors and adviserst
- How much understanding and respect do they have for village people? Do they treat them as equals?
- How committed are they to working toward social change?
- Do they have the necessary knowledge and skills (bublic health, education, group dynamics, community organization, medicine, etc.) or are they willing to learn?



- Location:
 - Where will the training take place? Near or far? Millage or city? Why?
 - Where will everyone est and sleep? In hotels? In special facilities? With village families? (How can these decisions influence what they will learn?)
- Numberst How many students will take part in the training course? (Beyond 12 or 15, quality of training usually decreases. This must be weighed against the need to train more healing workers.)
- Timing: 1
 - How long will the training course last?
 What time of year is best?
 - (Consider how these decisions may affect who can take part in the course.)
 - Will the training be done in one continuous stratch, or be divided into short blocks so that students can return home land practice what
 - they have learned) between sessions? (Whose needs and opinions should be considered

in answering these questions?)

- Funding:
 - From where? How much money should come from outside the local area?
 - What are the interests of possible funding groups?
 - What are the advantages and disadvantages of asking communities to pay part of the cost of training their health worker?
 - How can costs be kept low? How much is needed?
- Follow-up and support:
 - What opportunities may there be for continued learning or training after the course is over?
- What kind of support or supervision will the health workers receive?
- (Why is it important to consider follow-up before the training program begins?)

4. ANALYSIS OF PRIORITIES

(deciding what is most important)

Problems can be compared by considering the following:

- How common are they?
- How serious are they?
- How contagious are they?
- How much concern do people feel about them?
- How much do they affect other problems?
 How much could a community health worker do
- about them in terms of . . .
- diagnosis and treatment?
- referral, when needed?
- prevention?
- education of local people?
- community action?
- How easy or difficult will it be to teach a health worker to take safe, responsible action with respect to the problem?

Then group the problems according to their relative importance, or *priority*, and decide which ones to include in the course. (Be sure to include common social problems that affect health—such as drinking, overuse and misuse of medicines, local forms of exploitation of the poor, and misuse of resources as well as physical diseases.)

5. RE-EXAMINING OBJECTIVES

- In view of the information you have gathered and analyzed, how can the training program be best designed...
- so that it prepares health workers to help the people in their villages solve their problems and needs?
- so that it is adapted to fit the particular strengths and weaknesses of the students?

6. ORGANIZING STUDY MATERIAL FOR APPROPRIATE LEARNING

- What general subject areas and specific topics might be taught in order to prepare students to act upon the important problems and needs in their communities?
- How many hours of organized study time will there be during the course?
- How much time is needed to adequately cover each topic?
- How can the time available be best divided among the different topics, according to their priority?
- Which topics are best approached through classroom learning, through practice (in clinic, community, or field), or a combination?

(At this point, some program planners make a list for each subject area, stating exactly what the health workers should know and be able to do. What are the strengths and weaknesses of this approach? See Chapter 5.)

7. PLANNING FOR BALANCE

- How can the subject matter be approached so as to maintain an appropriate balance between . . .
 classwork and practical experience?
- learning in the training center and learning in the community?
- preventive and curative health care?
- * physical and social causes of ill health?
- the needs of the poor and the requirements of those in positions of control?
- + caution and innovation?
- health skills, teaching skills, and leadership skills?
- work and play?

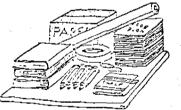


- 8. PREPARING A ROUGH TIMETABLE OR CLASS SCHEDULE
- (without details, to be changed later)How can different subjects and topics be arranged,
- according to hours, days, and weeks, so that ...
 there is enough variety to keep the students interested (for example, classwork alternating with farm work, community action, and learning of practical skills)?
- related subjects are scheduled close together or in a togical order?
- more difficult subjects come early in the day, and more fun subjects later (when people are tired)?
- all key subject matter is included?
- high-priority subjects are given more emphasis in the training course?
- skills and knowledge needed for immediate use and practice are learned early (for example, learning about medical history, physical exams, preventive advice, Road to Health charts)?
- How can study time and free time be best arranged to meet students' and instructors' needs?
- How can the schedule be kept open and flexible enough to allow for unplanned learning opportunities and special needs as they arise? (It helps to leave the last week of the course unscheduled, to allow for review and for making up 'displaced classes'.)
- How can the schedule be presented in a clear, simple form that can be easily seen and understood by students and instructors?

Γ		W	EEK	LY	PL	AN	_
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- 9. PLANNING APPROPRIATE TEACHING METHODS AND AIDS
- * What teaching approach is best suited to persons who are more used to rearning from experience. than from lectures and books?
- What approaches to learning will nelp the health. worker be an effective teacher in his community?
- What attitudes on the part of the teacher will. encourage the health worker to share knowledge gladly and treat others as equals?
- What teaching methods might aid the health. worker in helping community deople to become more confident and self-reliant?
- What teaching alds can be used that will lead the health worker to make and invent teaching aids after returning to his village?
- · What approach to learning will best prepare the health worker to help his people understand and work together to solve their biggest problems?
- What approach to health problems will enable the health worker to learn how to approach the solving of other community problems?
- What can be done to ensure that all learning is related to important needs?
- How can classwork be made more friendly and
- students use them to help each other rather than to compete? How can tests and exams be used to judge the instructor as well as the students?



- 10. GETTING READY AND OBTAINING SUPPLIES
- What preparations are needed before the course. begins? (transportation, eating and sleeping arrangements, study area, wash area, etc.)
- What furnishings and teaching materials are needed to begin? (benches, blackboard, etc.)
- What can be done if some of these are not ready. on time?
- 11. DETAILED PLANNING OF ACTIVITIES AND CLASSES FOR THE BEGINNING OF THE COURSE
- · How many days of classes and activities should be planned in detail before the course begins?
- . Why is it important that the details of all the classes and activities not be planned in advance?

B. Continued planning after the training course begins:

- 12. INVOLVING STUDENTS IN PLANNING THE COURSE CONTENT (based on their experience) and the needs in their communities)
- · Why is it important that the students take part in planning the course?
- How can the students' participation in planning. help them to learn about . . .
 - examining and analyzing the needs in their communities?
 - · recognizing both the strengths and the weaknesses of their people's customs?
- · ways to plan and organize a learning group?
- the value of learning by doing, and of respecting
- . and building on their own experiences?
- shared decision making?

13. REVISING THE PLAN OF STUDIES (COURSE CONTENT) ACCORDING TO STUDENT SUGGESTIONS

- To what extent do the priorities determined by the students, according to problems and needs in their own villages, correspond to those already. considered by the instructors and planners? (How do you explain the similarities and differences?)
- How important is it to revise the course plans in order to better meet the concerns and expressed needs of the student group?



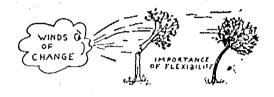
14. PREPARING INDIVIDUAL CLASSES AND ACTIVITIES

- How detailed should class plans be?
- How far in advance should a class or activity be planned? Why?
- Is it helpful to use a particular outline or formula. for preparing a class? If so, what should it include?
- Cap each class or activity be planned to include . . . all of the basic points to be learned or considered?
 - active student participation and interaction?
 - use of appropriate learning aids?
- opportunities for the students to explore questions and discover answers for themselves?
- practice in solving problems similar to those health workers will meet in their work?
- a chance for students to summarize what they have learned and to ask questions?
- To what extent can students take part in the preparation of classes and of teaching aids? (Is this important? Why?)

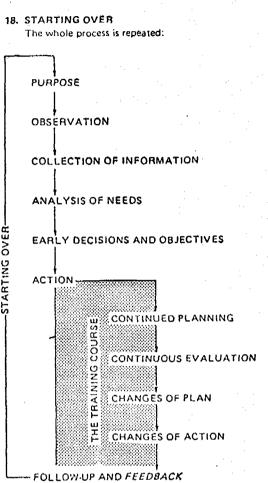
15. CONTINUED REVISION OF THE SCHEDULE—to make room for new ideas, learning opportunities, needs, and problems as they arise

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 What are the advantages and disadvantages to keeping the program open and flexible? (How might this influence a health worker's ability to work toward, or tolerate, change in his or her community?)



- EVALUATION DURING THE TRAINING PROGRAM—to consider how it might be improved (see Chapter 9)
- . In what ways can this be done?
- Who should be involved?
- What is the value of . . .
- round-table discussions in which all students and staff have a chance to express their feelings about the program and each other?
- similar discussions with members of the community where the training program takes place?
- * tests and exams?
- setting specific goals and seeing if they are met?
 If evaluation studies (informal or formal, ongoing)
- or final) are made, what can be done to help assure that results are useful and will be used?
- C. Planning and programming after the course is completed:
- FOLLOW-UP AND FEEDBACK* (see Chapter 10)
- How can a supportive learning situation be continued between instructors and students, and among the students themselves, once the training course is completed?
- How can the following be involved in supporting the health worker:
 - members of the community (a health committee)?
 - other health workers?
 - program instructors, leaders, and advisers?
- other support groups and referral centers?
- How can the experiences, successes, and difficulties of the health workers in their communities be recorded and used to make the next training course better than the last? (Can this be done so that health workers know they are contributing, rather than being judged?)



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*FEEDBACK: helpful ideas and suggestions sent back to planners or instructors by health workers.

Source: Helping Health Workers Ceam - David Wernerf Bill Brier

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The SARAR Process

Five Characteristics

SELF-ESTEEM

The self-esteem of groups and individuals is acknowledged and enhanced by recognising that they have the creative and analytic capacity to identify and solve their own problems.

ASSOCIATIVE STRENGTHS

The methodology recognises that when people form groups, they become stronger and develop the capacity to act together.

RESOURCEFULNESS

Each individual is a potential resource to the community. The method seeks to develop the resourcefulness and creativity of groups and individuals in seeking solutions to problems.

ACTION PLANNING

Planning for action to solve problems is central to the method. Change can be achieved only if groups plan and carry out appropriate actions.

RESPONSIBILITY

The responsibility for follow-through is taken over by the group. Actions that are planned must be carried out. Only through such responsible participation do results become meaningful.

The adaptation of this approach to the PROWWESS programme has been easy because the underlying aims are compatible. PROWWESS, committed to the involvement of local communities, and particularly women, believes that human capacity development is the key and encourages group responsibility for decision-making and action planning. These are means of ensuring that sectoral improvements correspond to people's priorities and benefit from people's willingness to use them effectively and maintain them in good order.

Source: Tools for Community participation - Cyra Sinivaran

Planning a community self-training activity

A useful tool for self-training activities is a simple planning guide which sets out the goals to be achieved, the knowledge and skills to be developed, and the actions needed to achieve the goals. The planning phase for self-training may include scholastic activities such as lectures, lessons and homework. It may also involve discussions with experienced people, group readings from books accompanied by discussions, talks about traditions and behaviour, even visits to the market to assess the availability of local materials. The aim should be to develop a structured training plan like the one below, which was part of a programme to introduce latrines into a community.

Stages of Task Actions (A) Decisions (D) Communications (C)	Knowledge and Skills needed	Ways to Learn
1. Find out community interest, (C)	ability to explain and listen	talk with experienced health workers; role plays; group dialogue
2. Decide if latrine project is possible at this time. (D)	understanding of people and customs	community dynamics; discussions about traditions & behavior
3. Help people learn importance of latrines to health.(C) g 1. gave	knowledge of how dissease spreads; teaching skills	from observation, books. and discussions; practice teaching
 4. Decide where latrines will be built. (D)	knowledge of safety factors	books and discussions; thinking it through with local people
5. Get materials needed. (A)	what local materials can be used; what else is needed; where to buy at low cost, etc.	talk with local mason; trip to market
6. Help people build the latrines. (A)	dimensions of pit and platform; how to mix, cast reinforce, and cure cement; how to build outhouse & lid	have students take part in actually making latrines
7 Encourage people to use latrines and to keep them covered and clean. (C)	home visits; art of giving suggestions in a friendly way	practice, role plays, and discussion

Source GTZ (1990).

The tasks analysis provided the basic information needed to carry out the self-training activities, as follows:

- Objectives (left hand column), divided into actions, decisions, and communications;
- Knowledge and skills needed (central column);
- Learning activities (right hand column), including the techniques and resources needed.

Source: Action Ceaning - Building on experience Oceaning Oceaning Paper Series - IRC

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ANNEX I Page 1

ADVANTAGES AND DISADVANTAGES OF DIFFERENT

MEDIA, MATERIALS AND TECHNIQUES FOR COMMINICATION SUPPORT

- A. People-based
- B. Mass media

C. Other media, materials

A. PEOPLE-BASED	MAIN ADVANTAGES	MAIN DISADVANTAGES .	COMMENTS
 Public meetings and lectures. 	Easy to arrange. Reach many people. Can have more than one speaker. Create public interest and awareness. Stimulate follow-up discussion.	Audience is usually passive. Speakers may not understand audience's needs. Difficult to assess success. Audience might not learn the main points.	Handouts should be used. Presentation should be clear. Use visual aids when possible. Audience should be encouraged to raise questions and to participate. Speaker should establish two-way communication.
2. Group discussion.	Builds group consciousness. Individual members of the group can understand where each member stands in regard to the discussed issue: provide chances for exchanging opinions and increase tolerance and understanding.	Some members may dominate. Sometimes difficult to control or to keep focusing on the main issue. Requires trained leaders.	Should be used with an interested audience to discuss a definite problem. Procedure should be flexible and informal. Summary of discussion should be presented at the end of discussion. Decision should be made by group members regarding its stand on the issue discussed. Requires the selection of good chairman.

Source: This table has been taken from "Using Communication Support in Projects: The World Bank's Experience", World Bank Working Paper No. 551, December 1982, by Hell Perrett.

This is largely based on Shawki M. Barghouti, Reaching Rural Families in East Africa, Nairobi: FAO Programme for Better Family Living in East Africa, 1973.

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PEOPLE-BASED	MAIN ADVANTAGES	MAIN DISADVANTAGES	COMMENTS
3. Kole playing.	Facts and opinions can be presented from different viewpoints especially on controversial issues. Can encourage people to reevaluate their stand on issues and can invite audience participation. Deepens group insight into personal relations.	Cannot be used in community meetings. Some role-players may feel upset by playing a role they do not agree with. Requires careful preparation for the selection of the issue and actors. Careful preparation is essential.	
4. Dr. ama .	Groups can be active "learning by doing". Can attract attention and stimulate thinking if situations are effectively dramatized.	Actors require attention in training and preparing script. Preparations might be too difficult for the field worker. Difficult to organize because it requires considerable skills and careful guidance by the field worker.	Should be restricted to one issue. Can only be used during training courses. Can be used as entertainment if well prepared before a public meeting.
5. Case study.	Can illustrate a situation where audience can provide suggestions. Can elicit local initatives if the case corresponds to local problems.	Difficult to organize. Rewording of events and personalities might reduce the effectiveness of the case. Some audiences may not identify themselves with the case.	Should be clearly prepared. Can be used in training course. Questions and discussions should lead to recommendations for audience action. Audience should be encouraged to prepare case studies relevant to its experience.

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ANNEX I Page 3

PEOPLE-BASED	MAIN ADVANTAGES	MAIN DISADVANTAGES	COMMENTS
6. Home visit.	Establishes good personal relationships between field workers and families. Can provide information about rural families that cannot be collected otherwise. Encourages families to participate in public functions, demonstrations and group work.	Field worker cannot visit every family in the community. Only families in accessible localities can be visited.	Records should be kept for families visited. Schedule of home visits should be developed to assure allocation of time for field work activities. Handouts should be given to families visited.
7. Demonstration (with a small group).	Participants can be active and learn by doing. Convinces the audience that things can easily be done. Establishes confidence in field worker's ability.	Requires preparation and careful selection of demonstration topic and place. Outside factors can affect demonstration results and consequently might affect confidence in field worker.	Demonstration processes should be rehearsed in advance. Audience should participate in the actual process. Educational materials should be distributed to the participants at the end of the demonstration. Should be suitable for people to attend.

ANNEX I Page 4

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в.	MASS MEDIA	MAIN AVANTAGES	MAIN DISADVANTAGES	COMMENTS
1.	Radio.	Radio technology	One-way channel.	Radio messages should
		available in all	Complicated technical	often be supported by
		countries and can	issues. Difficult to	personal follow-up.
1		reach mass audience	illustrate. Audience	Radio effectiveness
		cheaply. Receivers	reaction, partici-	increases if messages
		are inexpensive and	pation or interest in	
	· · · · · · · · · · · · · · · · · · ·			used in group discus-
	1 Alexandre alexandre de la companya	available in the	messages delivered,	sions (e.g., farm
		remotest commu-	difficult to assess.	forums) or regular
		nities. Messages can	Requires special	training courses.
		be repeated at low	skills and continuous	Desirable for radio
		cost. Easy to reach	training of radio	to cover local
		illiterate audience.	personnel. Content	events, assist in
		Can be used to sup-	may not be tailored	explaining and
		port other channels	to small communities	promoting local proj-
		of communication.	and tends to be	ects and development
	and the second	Efficient to announce	general in nature and	efforts. Programming
		events and develop-	is usually prepared	should maintain
		ment activities, and,	for national	balance between
		if properly used, can	audience, or special	
		mobilize audience to		national and local
		1 1	ethnic or language	coverage interviews
		participate in public	group thus reducing	and lectures, news
		events and projects	relevance to local	and profile coverage
		of value to the	problems. Difficult	of development
		community. It is	to use material	issues.
		flexible, and style	broadcast as a refer-	
		can include drama,	ence without invest-	and the second
		lectures, folklore	ment in radio docu-	
		songs, interviews and	mentation. Texts of	
		variety shows.	radio programs are	
		Excellent in regular	usually needed for	
		teaching and out-of-	effective follow-up.	and the second
		school correspondence	This is not always	· · · · · · · · · · · · · · · · · · ·
		courses. Radio is	possible.	
		effective in creating	peddibide	
		awareness and setting		
			1 4 4	
		agenda of priorities		
		for people's	· · · · · · · · · · · · · · · · · · ·	
	, ·	attention.		
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ANNEX I Page 5

MASS MEDIA	MAIN ADVANTAGES	MAIN DISADVANTAGES	COMMENTS
2. Television.	Its novelty attracts	Expensive to	Local television
	audience and can be	operate. Receivers	stations can play an
	the main captivator	not available in many	important role in
Aug.	in rural commu-	rural areas and among	development. More
	nities. Can be used	poorest population	educational training
	to explain compli-	groups. Has tradi-	is required for
	cated messages	tionally been used	staff. Easy to
	because of its combi-	for entertainment and	exchange information,
	nation of sound and	politics more than	and programs are
	picture. Programs	for development and	scheduled in advance,
	can be repeated at	educational	well-documented, with
	cost. It is suitable	purposes. Program-	heavy involvement of
	for mixed present-	ming skills more	and focus on local
•	ation of issues.	likely to be avail-	problems. Very
	Suitable for motiva-	able for entertain-	effective for
•	tion through utiliza-	ment. Educational	activating group
	tion of folklore art	programs may face	learning when used in
	and music, community	severe competition	viewing centers or as
	events, and animated	from entertainment.	part of multi-media
	public speeches and	No audience partici-	campaign for
····	debates. Efficient	pation. Present	education-information
	in bringing issues to	state of technology	and motivation.
	public attention, and	in many developing	
	powerful in setting	countries does not	
	public agenda for	allow immediate	
	action and partici-	coverage or timely	
	pation in development	relay of local commu-	
and the second	effort. Successful	nity actions and	
	in creating aware-	events. Requires	· · · · · ·
	ness. Suitable for	more planning and	
	illiterate audiences	preparation, and	
	if they have access	technical, creative,	
	to receivers or to TV	and communication	
	clubs.	skills than other	
		media. Difficult to	
		use material	
		televised as a refer-	
		ence without invest-	
		ment in television	
		documentation. Texts	
		of television	
		programs are needed	
and the second		for follow-up. This	
		is not always	
		possible.	
		<u> </u>	1

MASS MEDIA	MAIN ADVANTAGES	MAIN DISADVANTAGES	COMMENTS
3. Newspapers.	Can provide detailed information. Easy to present technical data in clearly designed text. Important topics can be covered in a series of articles. Can influence the attention of audience by where they place information and on what page. Influen- tial in creating awareness and mobilizing public opinion. Material published can be shared and used as reference. Can be used to support radio and television for education purposes and follow-up on lessons, issues and topics discussed by the other two media.	Can be used by liter- ates only. Difficult to reach isolated communities. Can be expensive for poor families. Requires special writing and editing skills, which are not always avail- able. Like all other mass media, it is one-way communication channel. Feedback is difficult because of audience reluctance or inability to contact the editor. Difficult to publish at regional level. Small communities can not afford to publish their own newspapers without continous support from national government.	Best source of information if topics of development are covered on regular basis. Can be used to establish community local papers and bulletin boards. Can be circulated to community members to reduce cost per individual family. Could be used to support literacy classes: sectors could be prepared especially for poor readers and semi-literates.
4. Cinema.	Captures attention well. Reaches big audiences in selected countries and can be very cheap (particu- larly with semi- permanent and travel- ling cinemas). Can reach lowest strata in certain countries and even have large rural audience.	Is expensive in some countries and may only reach certain sub-groups in the target audience (such as the rich, youth, females). Distribu- tion can be a problem. May be distracting setting for educational messages.	Great care must be taken in preparing the film clips.

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ANNEX I Page 7

MASS MEDIA	MAIN ADVANTAGES	MAIN DISADVANTAGES	COMMENTS
5. Folk theatre.	Culturally relevant. In some countries is easily available and inexpensive. Often more credible to the traditional elements of society than the modern media.	Can lose control of the message. Format can distract from content.	Flexibility of the form can vary from country to country. One of the best uses is often a combina- tion with a modern medium such as tele- vision, radio, or supported by loud- speakers.
 Wall paintings. Billboards. 	Potentially available to large audience. Low costs per person reached if well located.	Can be easily ignored. Limited to simple messages.	Message mist be extremely well designed and pretested. Siting is critical to be able to reach the kinds of people intended.
7. Mass media group listening.	Combines mass media and personal channels. Can be prepared and used for many audiences over a period of time. Encourages group participation.	Requires preparation for recruiting groups, training group leaders, and preparation of educa- tional material. Can be expensive. Drop- out can be a problem if special efforts are not made.	Should be regularly held. Participants should be provided with educational material. Can be effective in enforcing literacy and adult education. Programs selected should be about local problems. Tape recorders can be used. They are flex- ible. Can be used to tape role-playing, group discussion and interviews with local personalities.

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	DTHER MEDIA AND IATERIALS	MAIN ADVANTAGES	MAIN DISADVANTAGES	COMMENTS
1.	Publications and	Excellent for indepth	Expensive. Can only	Should be used to
	loose leaflets.	presentation of	be effective if well	support special
		issues and technical	designed and	campaigns, such as
		information. Can	produced. Poorly	literacy and adult
		cover more than one	printed publications	education. Most
		topic. Easy	may be expensive but	useful if topics are
		reference and can be	not be read. Require	covered in series of
	and the second	directed to specific	special editing,	publications. Could
		audiences. Can be	design and production	be used successfully
		illustrated and made	skills.	-
1.1	· · · · ·	attractive. Can	SKIIIS.	in group discussions
				and as back up for
		support other media		public meetings. Ca
		for education		also be used for
111		purposes.		in-service training
			ана стала	of field staff and t
			1	keep up morale,
			and the second	particularly if field
				staff are widely
		· · ·		dispersed.
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	HER MEDIA AND TERIALS	MAIN ADVANTAGES	MAIN DISADVANTAGES	COMMENTS
2. Vi	deo (Form).	Can be used to intro- duce new ideas to	Is expensive. Forum members tend to drop	Forums require continuing attention
		selected audiences. Excellent tool for	out. Breakdown in hardware is common,	from professional organizers. Most
		micro-teaching. Can introduce complicated	and batteries are often exhausted.	successful in small group learning.
	ander Selection Maria ander Selection	concepts and techni- cal issues in a	Forum requires highly skilled personnel and	Group discussion leaders must be care
•	:"	series of presenta-	extensive hardware.	fully selected and
		tions; can record	Restricted to commu-	trained. Training materials and
		field operations and activities and use	nities where trained field agents are	programs must be
		them on numerous	available. Requires	carefully organized
		occasions; can be used to teach skilis	continuous servicing and maintenance and	and kept in order. Its efficiency
		and change atti-	up-dating, Can	increases if used in
		tudes. Feedback to the broadcaster can	become negative tool for development if it	combination with booklets and handout
		be immediate and	fails to attract	at the end of the
•		relatively accurate. Can be handled by	different sub-groups in the community	discussion. Should be used to teach
		model farmers and	(such as the poorest,	special skills, for
		community leaders; can build useful	and religious or racial minorities).	structured instruc- tion and, where
		libraries for teach-	Sometimes, because of	possible, as a tool
1-		ing in the case of literacy and adult	difficulty in finding needed materials or	to generate partici- pation among a rural
	- 1	education classes.	training manpower,	community or one that
	2		many events in the community go by with-	is for other reasons isolated from ongoin
			out being recorded or utilized.	-
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	OTHER MEDIA AND MATERIALS	MAIN ADVANTAGES	MAIN DISADVANTAGES	COMMENTS
3.	F11ms.	Use of sight and sound can attract audience's atten- tion. Can make great emotional appeal to large audiences.	Good films are rare. Equipment costly to buy and maintain. One-way communication unless properly used. Requires skill in running film projectors.	Best if combined with discussion groups. Much work to be done regarding getting good films made. Attention should be given when getting audience to evaluate the film. Films should be used for stimulating discus- sion rather than for teaching alone.
4. 1	Filmstrips.	Much cheaper and easier to work than films. Easily made from local photo- graphs. Encourages discussion.	Usually sight only. Not so dramatic as motion pictures. Could be expensive.	Can have recorded commentary. Strip can be cut up and individual pictures mounted as 2" slides: then can be selected and re-arranged.
5. S	ilides.	Wave all the advan- tages of film strips plus more flexibility and can be more topi- cal. They can be used in a scries to illustrate a concept.	Could be expensive. Difficult to have them on all subjects of teaching.	They should be used after careful prepar- ation of logical sequence and a goux commentary.
6. <i>F</i>	lannelboard.	Can be portable and mobile. Can be prepared by expert in advance. Little skill required in actual operation. Could be used to make presentation more dynamic.	Can only be used for what it is prepared. Cannot adapt to changing interest of group. More elabo- rate equipment than ordinary blackboard. Difficult to keep up- to-date.	Very useful but only for the prepared talks. Audience can participate. It should be used step- by-step. Flannel materials should be stored properly for future use. Flannel- graphs should be numbered according to their order in the presentation.

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OTHER MEDIA AND MATERIALS	MAIN ADVANTAGES	MAIN DISADVANTAGES	COMMENTS
7. Bulletin Board.	Striking, graphic, informative, flexible, replaces local newspapers. Keeps community up-to-date with information.	Requires preparation and attention to community needs.	Should be combined with maps, talks and photographs. Very suitable for posting articles, announce- ments and news of development in the community.
8. Flip charts (turnover charts	Cheap and simple. (Cheap and simple. (Can be stopped at will for analysis. (Can be prepared locally. Ideas could be illustrated in sequence. Illustra- tions on flip chart could be used many times for different audiences in differ- ent sessions.	Soon torn. Can only be seen by a few at a time. Can be diffi- cult to illustrate complicated ideas.	Should not be over- looked for illustra- tion of simple sequences - especially with small groups. Lectures should be prepared in advance for use on several occasions.
9. Models, exhibiti and displays.	ons Appeal to several senses. Can be used in various occasions and situations. Can illustrate ideas in detail.	Not many workers can build them or use them properly.	Useful models and exhibitions could be built up locally. Should be used in familiar places - centers.
10. Maps, charts, diagrams.	Visual appeal. Should simplify details. Permit leisurely study. Can develop sequence on display boards.	May mislead by over-simplicity. Can create transport and storage problems.	Should be made especially for groups. May need careful explanation at first. Could be used as summary of information. Symbols and layout should be familiar to the audience.

OTHER MEDIA AND MATERIALS	MAIN ADVANTAGES	MAIN DISADVANTAGES	COMMENTS
11. Blackboard.	A flexible tool. Easy to make and to use. Can be very attractive if used properly. Use of colored chalks can add to its visual appeal. Can be portable.	Requires some manipulation skill (though quickly acquired). Requires teaching skills to make best use.	Should be essential in every group. Very useful for schematic summaries or talk or discussion. Audience can participate. Small blackboards can be portable. Writing should be clear and organized.

Source: Planning of Conicadan Support (Infranction, Motivation and Education) in Sanitadan Ingrammer and Injust. — Heli Perrett. (ING) - United Nation Devel. Ingrame and World Bant.