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His Majesty's Government of Nepal Ministry of Housing and Physical Planning DEPARTMENT OF WATER SUPPLY AND SEWERAGE and

The Government of Finland
Ministry for Foreign Affairs
FINNISH INTERNATIONAL DEVELOPMENT AGENCY
(FINNIDA)

RURAL WATER SUPPLY AND SANITATION PROJECT

LUMBINI ZONE

ANNUAL REPORT 1992



Butwal, February 1993 Consultant: PLANCENTER LTD Helsinki

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1. GENERAL

During the year 1992 the Project experienced a build up phase of all the activities, especially of the construction of the water supplies and sanitation facilities.

The year also brought interesting development in the political and decision making field of Lumbini Zone, as the District and village level decision making bodies were elected and started their work during the year. This was seen in a more organized approach of the villagers towards the water supply implmentation. It can be said, that community participation became more formalized, as the elected bodies like the District and Village Development Committees took interest and were in-charge of the situation. It was also observed by the Project workers, that the District decision making bodies have main responsibility in the water supply planning and implementation and that the central level line agencies have some what less important role to play nowadays.

The first District Water Supply and Sanitation Development plan was prepared during the year. The results of the field survey were interesting and also invaluable to the Project in many ways. The Project policies and activities were assessed and re-evaluated due to the findings of the field survey and District Development Plans.

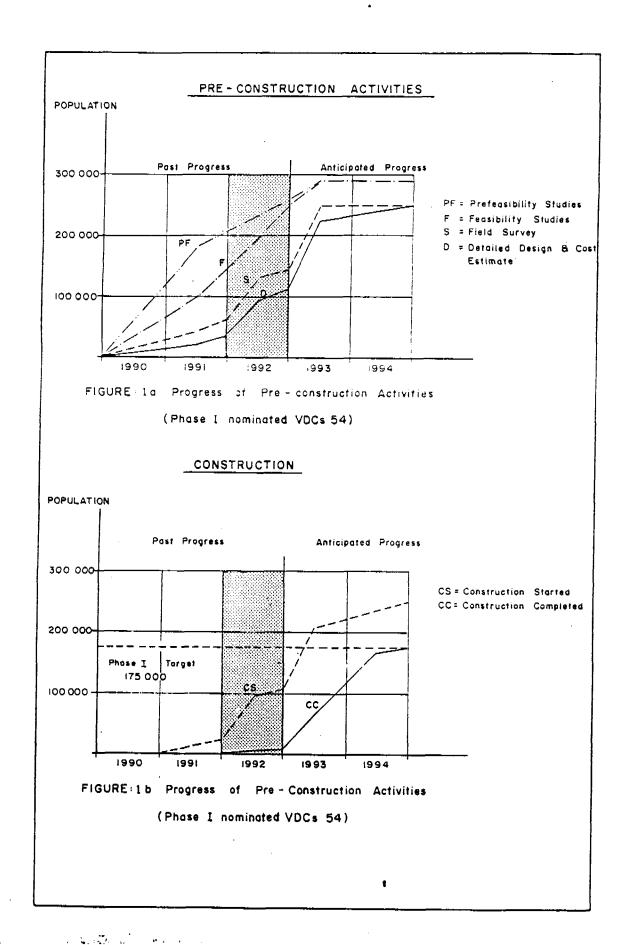
2. PROGRESS OF THE WORK

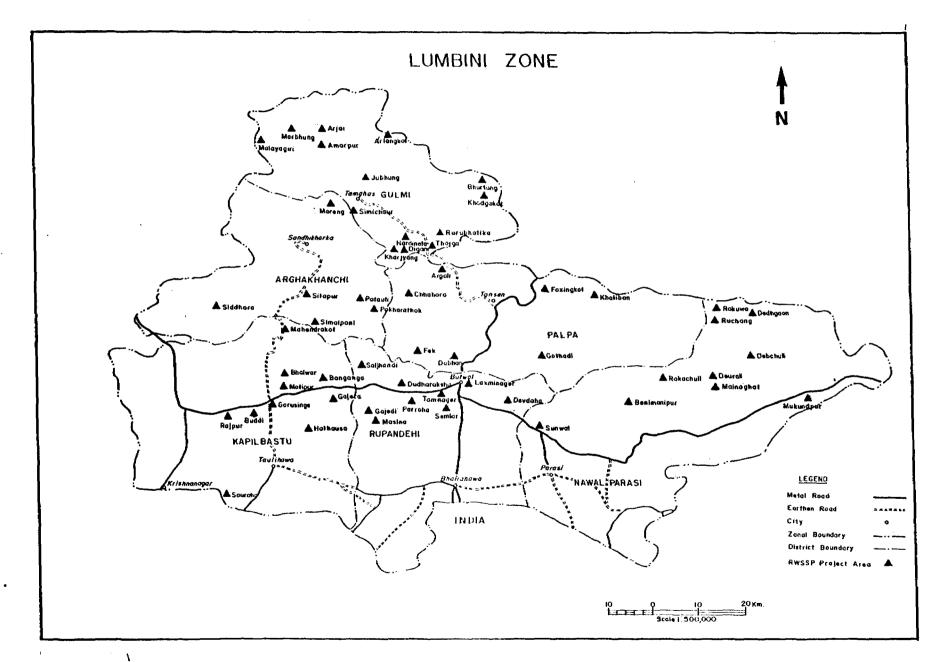
The progress of work in terms of the population covered by different activities is presented in the table 1 below:

Activity	Total Cumulative by December by 1991	ve Population: y December 1992	Population during 1992
•			
Prefesibility studies	208,000	261,000	53,000
Fesibility Studies	138,000	249,000	111,000
Field Surveys	64,000	142,000	78,000
Design Reports and Cost Estimates	35,000	116,000	81,000
Construction Started Construction Completed	25,000	105,000 33,000	80,000
Handed Over	0	9,000	9,000

Table 1 Progress of planning, design and construction activities by population.

Figures 1a and 1b present the same development in a form of curves.





The flow chart of Project activitities, showing the design and implementation steps referred to in the Table 1. is presented in the Appendix 1.

The Village Development Comittees with the Project Activities are presented in the map of Figure 2.

The numerical achievments of the different project components are presented in the Appendix 2.

2.1 District Water Supply Development Plans

The fiels survey to asses the present water supply situation from the users' point of view as well as the condition of exisiting improved water supplies was undertaken as follows:

DISTRICT	Field	SURVEY
	STARTED ON	COMPLETED ON
Arghakhanchi	23.11.1992	25.3.1992
Gulmi	17.4.1992	30.7.1992
Kaplibastu	16.9.1992	12.12.1992
Paipa	16.12.1992	ongoing

The Arghakhanchi report was finalized and distributed in September 1992. A seminar for the decision makers to familiarize them with the use of the Water Supply and Sanitation Plan for their district was organized. It was observed in the seminar in Sandikharkha, Arghakhanci, that the decision makers found the document very technical and their perception was, that FINNIDA would undertake the implementation of the plan. Lot of discussion was needed to clear, that the plan was a tool for them to plan the future investments in the water supply and sanitation sector, taking into account all the available resources.

The Project undertake to produce maps of the present improved water supply situation in the scale of 1:25 000. The basic information of the maps (contours, rivers, infrastructure) is copied from old existing maps. Information on improved water supplies, cluster and population data and administrative boundaries are obtained through the field survey.

The mapping work was started on 14th of January 1992 and by the end of the year the work of two hill districts i.e. Gulmi and Arghakhanci was completed.

The desk study on physical and environmental features of the three Hill Districts and the preparation of the Environmental Impact Assessment guidelines were completed in January 1992 by the Cemat Consultants, Kathmandu.

2.2 Water Supply Programme

A lot of development work was done during the year to simplify and clarify the design procedure of water supply schemes. The format of design reports was standardized and so called "VDC approach" was introduced to facilitate the utilization of water resources in a most economical way.

Since the number of water supply schemes under preparation and construction is growing rapidly, a work plannig and progress follow up system for the District Water Supply Offices was developed and introduced at the end of the year.

A set of standard designs for school and public latrines was prepared during the year.

The construction of water supplies was undertaken in all six distircts during the year. The implementation of 27 new schemes in 19 VDCs were started and 9 schemes were completed during the year.

The division of water supply schemes into different categories is presented in Figure 3. The Figure 3a shows the situation at the end of the reporting period, 3b at the end of Phase I of the project and 3c at completion of all so far nominated schemes. 64 % of the population now under construction will be served by shallow tube wells, 25 % by gravity schemes, 7 % by deep tube wells and the balance of 4 % by dug wells and rehabilitation schemes. At completion of all the nominated schemes the figures will be 36 %, 44 %, 7 % and 13 % respectively. This development is due to the quick completion of the shallow tubewell schemes. The gravity systems take longer to start and also complete.

The progress of studies, surveys, designs and construction work, in relation to the numerical targets is presented in the Appendix 2.

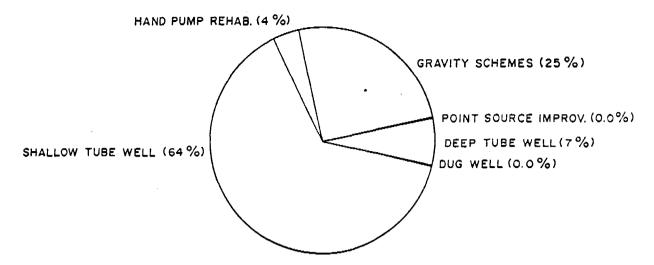
The progress of of the implementation in each district, as per the step-by-step implementation procedure, is presented in the Appendix 3.

2.3 Health Education and Sanitation Programme

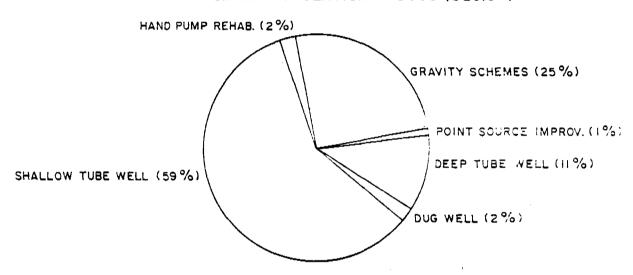
2.3.1 Health Education

The health education programme was continued on the basis of principles created during the first year.

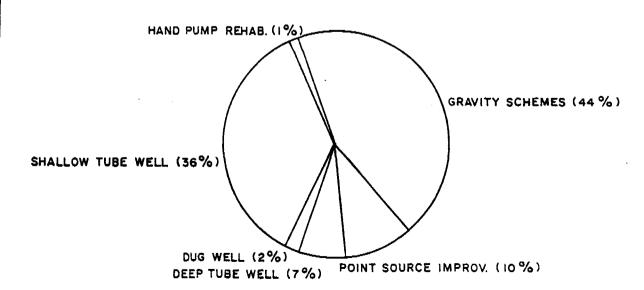
3a DIVISION OF WATER SUPPLY SCHEMES
UNDER CONSTRUCTION POPULATION 100000 (DEC.92)



3b DIVISION OF WATER SUPPLY SCHEMES COMPLETED POPULATION 175000 (DEC.94)



3c DIVISION OF WATER SUPPLY SCHEMES COMPLETED POPULATION 250000



DIVISION OF WATER SUPPLY SCHEMES INTO DIFFERENT CATEGORIES WITH UNDERTAKEN POPULATIONS OF 100 000, 175 000 & 250 000.

FIGURE: 3

Regular schemewise activities

Health behaviour study, an assessement of the habits related to the water use, sanitation, nutrition, care of illness etc., was undertaken in 17 scheme Village Development Committees. The purpose of this study is to create information for the Community Health Volunteer and other training.

School and health post assessment, to find out the capabilities and requirements of the schools and health posts, was undertaken in 77 schools and 10 health posts respectively.

The first training course was given to 68 Community Health Volunteers, 137 school teachers, 31 Village Health Workers.

Orientation meeting was held with 290 Users' Committee members during the year. The purpose of this orientation was to educate the Users' Committee members in their role as the supporters and managers of the Community Health Volunteers. The Users' Committee members were also motivated to become a role model of the village and start this work by constructing themselves a latrine.

Special activities

Household latrine promotion campaign was held in Kapilbastu District in March 1992. There were 33 participants, including Community Health Volunteers, Users' Committee members, Village Health Workers and District Water Supply Office staff. The campaign was hosted by the District Engineer. The purpose of the campaign was to raise the villagers' awareness towards the Environmental Sanitation.

Health and sanitation related mass education was carried out in scheme areas in Gulmi, Arghakhanchi, Kapilbastu, Rupandehi and Nawalparasi. This type of activity consists of mass meetings in the village, video and slide shows of the subject matter. Discussions of the common activites to improve the village surroundings, like sanitation, drainage and village path improvment is held.

School teachers and Community Health Volunteers from selected scheme areas were taken for an observation tour in Kathmandu. The purpose of the observation tour was to familiarize the participants with the exisitng health facilities in th country. Places like large hospitals, leprocy rehabilitation centre etc. were visited. The tour was found fruitful, as the participants could see in practice the health care available for the villages and were educated in village level health problems e.g. early stages of leprocy.

Orientation meetings with the District and central level public health sector people were held, and the Steering Committee level

decision of integrating the Ministry of Health and Ministry of Education staff within the Project activities was achieved. Full implementation of the Project's health and sanitation programme through His Majesty's Government still needs some work.

Follow-up activities

The Project's follow-up officer was undertaking the field visits to observe the activities of the formerly trained Community Health Volunteers, school teachers and health post staff.

The results of the Community Health Volunteer follow up were encouraging. After two years of training, only few of the visited 83 women were found inactive (10 %). The total drop out rate was however, 27% due to the women moving away. First aid boxes were retrieved from two scheme areas, due to them being not refilled with medicines. It has been observed, that the collection of the for the maintenance of the revolving fund first aid considerably improves the situation. In the scheme areas first started by the Project in 1990, the fund was not collected, and there the Community Health Volunteers have most problems. places, where the fund is collected, there are hardly any inactive Community Health Volunteers. It seems, that when the individual households have to contribute to the health fund, they also are aware of the service available and also have expectations to get their money's worth. One problem observed during the follow-up, was that the user's committees in some places were not fully committed to the community health volunteers programme. This hampered the activity.

18 schools with the Project trained school teachers were visited. Special emphasis was given to the schools with Project constructed latrine. The latrine maintenance was found a problem just after construction of the new latrine, but the situation seemed to improve after a few visits. It is evident, that school latrine programme needs close supervision, otherwise the promotion of use and latrine cleanliness will suffer.

11 health posts were also visited to observe the efficiency of the Project's training.

2.3.2 Sanitation programme

The sanitation programme of the Project had two components which were implemented during the year.

Institutional latrine programme

The school and health post latrine programme was started during 1992. A set of standard designs for the institutional latrines was prepared. The District Water Supply Offices technicians were trained, total of 52 people, for the school/health post latrine

construction.

Total of II institutional latrines have been construced during 1992.

Together with the construction work, a training, motivation and monitoring programme of the school latrines was started. Several problems of the school latrine use and maintenance were reported. Some latrines were not taken into use, the teachers locked them and some latrines were never cleaned. The school teachers need to be advised on a continuous basis.

The household latrine programme

The programme continued on the basis agreed during the first two years of the Projec, i.e. providing only education, technical advice and motivation without subsidies or material support. The motivational message is disseminated through several channels and training excercises to the communities of the Project' Village Development Committees.

The following people have been instrumental in constructing their own latrines and hence providing a model and example to the rest of the villagers:

- 44 % of all trained Community Health Volunteers have constructed themselves a latrine
- 30 % of all school teachers, who have received the Project's health training, have constructed themselves a latrine
- Users' Committee members
- Water Supply and Sanitation Technicians (temporary residents in the village during the scheme implmentation)

About 6 % of the general population in the scheme areas have constructed themselves a latrine, after the Project's health programme has been introduced there.

On this basis a total of 380 household latrines were recorded to have been built by the above groups of people.

The household latrine programme encountered technical problems in the scheme areas situated in some areas of the Terai. The groundwater levels during the rainy season raise so high that the kachha (non-permanent) type latrines, not having any concrete or brick reinforcement, collapse. Different technical solutions, e.g. raising the latrine high above the ground has been tested and the next rainy season will show their durability.

2.3.3 Water Quality Monitoring

The laboratory has been functioning as a service unit for the water supply implementation. The laboratory undertakes only

bacteriological (E. Coli and total coliform) analysis. Samples for chemical analysis have been sent to Kathmandu. The proposed sources of the gravity systems were checked in areas accssible within 6 hours. In the ground water supply areas, the existing wells were checked before the construction starts and all Project wells have been checked after the completion.

The laboratory produced trimesterly follow-up reports. A summary of the water quality data has been enclosed as Appendix 4.

2.4 Human Resources Development

District Water Supply Office, Technical Staff

The training activities had more or less been designed during the first two years of the Project, so the previous training courses were repeated. New training was undertaken in latrine construction.

The training was mostly organized by the District Water Supply Offices' personnel. The principle was, that the training activities are organized in alternate districts and the district office in question takes the responsibility. So the groundwater training was organized by the Kapilbastu District Engineer, the overseers design training by the Gulmi office etc. Apart from the Helvetas input and one resource person from the Ground Water Project, all the trainers were from the District Water Supply Offices or the Project Implementation Unit.

A total of II courses were organized during the year. The time table of the courses and number of participants in each course is presented in the appendix 5.

A short description of the couses undertaken by the Project to the District Water Supply Offices staff is presented in the Appendix 6.

Foreign training programme

The foreign training programme was implemented during the year. The participants found the trainings interesting and useful and also the Project found especially the motivatonal value extremely useful.

Three trainings were organized.

Two engineers, Mr. 1.Paudel and Mr. D. Subedi visited the Loughborough University for a three months course in Project preparation for Environemental Engineering. This course also formed the first part of the M.Sc. course in water supply.

- 10 overseers and 2 training officers visited rural Thailand on an orientation tour organized by the Asian Institute of Technology.
- 12 technicians visited India to familiarize with deep and shallow tube well pumps, sanitation and health education projects.

2.5 Community Involvement

Community involvement has been implemented as a method of the scheme implementation. No study, survey, design or construction work has been done without the consultation with the villagers.

As the community involvment has a certain pattern and set procedures in the RWSS Project, it has become easier for the technical field staff during the years. It has been noticed during this year of field work, that the procedures like resource mapping, design meeting etc. have been accepted and increasingly practised by the District Water Supply Offices' staff. The training officers of the Project have been supporting and facilitating staff and, it seems, appreciated by the District Engineers. There have been discussion from the District Offices, that each district should have one training officer. It would naturally be better these specialized in community mobilization staff should be appointed by the Department of Water Supply and Sewerage becoming an integral and continuous component of the District Water Supply Office manpower resource.

It is possible that in the future the Terms of Reference of the Community Training Officers will be extended to include assistance to those District Water Supply Office staff implementing schemes where the materials for construction are provided by HMG/other donars. In regard of the present and anticipated work load in the districts it is anticipated that the recruitment of additional Training Officers may be necessary. The actual requirements will be assessed on a District by District basis in 1993.

The local elections took place in May 1992. This resulted in hectic political activity in the village level and also somewhat affected the users' committees of the RWSSP schemes. Disputes over the membership and representation between different political parties rose in some cases. It could also be noticed, that newly elected Village Development Committee and ward learners were elected in the users' committees.

The progress of the community involvement is shown together with the general follow-up of the scheme implementation in the Appendix 3. The certain key points of community involvement are followed in the schemewise progress tables i.e the design meeting, users' committee training and the agreement. The numerical achievment of the users' committees and village maintenace workers training is given in the Appendix 2.

Short description of the community participation of the project activities is given in Appendix 7.

3. SUPPORT SERVICES

3.1 Offices

The construction work of the conversion of the water tank basement into office space in the District Water Supply Office compound in Yogikuti, Butwal was completed and taken into use.

The telephone exchange board was installed and is in operation.

The extention of District Water Supply of Rupendehi office building and laboratory building construction was started during the year and is expected to be completed at the end of February 1993.

3.2 Stores

Store computerization was finalized during the year. It is now possible to follow the material flow with great detail and account each item released from the store either to a particular scheme area or supporting (training, health education etc.) activity.

3.3 Workshop

As previously described, it is not thought relevant that the workshop facilities should be developed beyond a minimum level as adequate facilities exist in Butwal town.

3.4 Vehicles and Transportation

Three new Toyota double cabin vehicle arrived from Japan and were put into operation from 1st of July 1992.

The two lorries previously purchased have proved to be insufficient and the rainy season makes the hill schemes inaccessible to lorries for a considerable time when construction work can still continue. In order to facilitate the timely supply of construction materials to the scheme sites and to extend the construction season by making access to the sites possible for as long as possible 1 tractor and trailer were purchased per district.

A list of Project vehicles is presented in Appendix 8.

3.5 Support of District and Regional Offices

The Project has continued to provide the necessary stationary,

technical survey equipment, drafting equipment, calculators, individual camping equipment, field allowances, and other logistical support to the District Water Supply Office's as requested and agreed by the Project Implementation Unit (PIU).

3.6 Procurement Policy and Quality Control of Materials

The Project participated the standardization meetings in Kathmandu in the attempt to agree upon uniform material and equipment specifications. This was not yet materialized during 1992, but resulted in discussion about the community handpump model to be installed by the donor agencies.

The Project set as its target to install only pumps which could be maintained by the community and spareparts for which could be obtained in the local market. The presently installed UNICEF Improved Nepal No 6 does not meet this requirement. The modification work of the Improved Nepal No 6, in cooperation with the Regional Office of the World Bank started during 1992.

The Project has worked together with Development Consultant Services (DCS) and Mr. Jan Lam (Mechanical Engineer) on modifications to the UNICEF modified Nepal No. 6 using locally available spare parts. The modified Hand pump is known as the VLOM No.6. The VLOM No. 6 allows for conversion to the UNICEF Nepal No. 6 as and when spare parts become available.

A survey of the HDPE pipe manufacturers in Nepal was comissioned to be done by Crown Agents. The report was submitted in the end of 1992.

During 1992 Societe Generale de Surveillance (SGS) was used as the inspection agency for the materials procured in India.

4. PROJECT PERSONNEL

The Project is jointly funded by FINNIDA and HMG/N. The project funds are channeled through the Project Implementation Unit (PIU), which is composed of HMG/N staff and Consultant's staff. The direct FINNIDA funds are administered by the Project Coordinator of the consultant. The FINNIDA fertilizer/HMG funds are administered by the Project Manager DWSS/HMG. The implementation of the schemes is done by the District Water Supply Offices.

4.1 Consultant's Staff

The Consultant has provided the staff for training, health education and sanitation programme, support services, district development plan preparation and two engineers for advisory work for the District Offices. The consultant's team is headed by the Project Coordinator.

The list of the consultant's staff is presented in the Appendix 9.

The consultants long term staff has been the following:

- Consulting and administrative staff, $12\frac{1}{2}$ persons. (10 Nepalese) ($2\frac{1}{2}$ exptriates)
- Supports services and other assistant staff, 46 persons

The consultant's short term staff has been the following:

- District Development planning staff, including the enumerators, 57 persons (temporary staff)
- District Develoment Plan consultants, total 10 man months.

4.2 HMG/N Staff in the Project Implementation Unit

The HMG/N staff, headed by the Project Manager is, jointly with the Consultant's staff, supporting the government line organizations in their work.

The staff records of the HMG/N staff is shown in Appendix 9. At the end of the year the number of HMG/N staff was 10 people.

4.3 District Water Supply Offices' Staff

The manpower situation of the Project improved considerabley during the year. Firstly the department issued a letter to the district water supply offices, to nominate exclusive staff for the RWSS Project implementation. This made the manpower planning and training easier than the year before. Also it could be guaranteed, that the persons receiving training could then use their skills in implementing the RWSS schemes.

35 new technicians and 6 new overseers were employed or transferred from other districts to Lumbini Zone.

The total of the District Water Supply Office's staff nominated to work in the RWSSP schemes was in 1992 as follows:

- Engineers 11 (part time)
- Overseers 31
- Technicians 89

5. MEETINGS, SEMINARS AND VISITS

<u>February</u>

Short term consultant, Mr. Osmo Purhonen, came to the Project for one month's consultancy for writing up the draft report on the Argakhanchi District Development Plan. First draft report was

prepared by the end of the month.

March

Ms. J Tamsang, National level coordinator at the Institute of Medicine, Kathmandu and Mr. Dhakal, Campus Chief, CMA Campus Tansen visited HESP to finalise procedural details in coordinating CMA students Field Training with HESP Ilaka, Programme.

A high level delegation from Padma Kanya Campus, Tribhuvan University led by Dr. Lecla, Dr. K.C. Director, Women's Development Division visited HESP to discuss future programme of the campus and possible coordination and cooperation between HESP and the Campus for the same.

Ms. M. Krantz, Nutrition Advisor from United Mission to Nepal Kathmandu paid a visit to HESP Office and HESP field activities.

April

Pakistani Delegates had visited Butwal Office on 21st April and discussed with the Project staff and inspected Dudrax/Gajedi shallow tube well scheme and Argeli gravity system in Palpa.

June

World Bank Director Mr. Kurt Carnemark and Mr. Peter Lochery, World Bank Representative from the Regional Office, New Delhi, visited the Project.

The Two-Day long oreintation and coordination meeting and visit programme was held at the Project Head Office, Yogikuti Butwal on 24 - 25th June 1992. The meeting was participated by Public Health Directors from Western Development Region, and District Education Inspectors from all the six districts of Lumbini Zone.

July

A delegation from Myanmar consisting of 5 members visited the Project from 20th July to 22nd July 1992.

August

Two persons the delegation from Myanmar visited the Project.

September

11 persons from the Project participated the WEDC Conference in Kathmandu, during the 30.8. - 3.9.1992

Two engineers, Mr. D.P. Subedi PIU/HMG and Mr. I.P. Poudel, DE, Gulmi had participated WEDU Diploma Course in "PROJECT PREPARATION"

FOR ENVIRONMENTAL ENGINEERING" running from 28th September 1992 to 18th December 1992 at "Loughborough University of Technology" in England.

Two training officers and ten overseers had took part in the observation tour in Thailand from 9th October 1992 to 23rd October 1992.

Two team leaders and twelve technicians visited India from 9th October to 23rd October 1992 for the training and Project visits.

<u>November</u>

Mr. Wihuri (Finnida Advisor for Water Supply) visited the Project.

Honorable Vice-Chairman of National Planning Commission Mr. Ram Saran Mahat and honorable member Mr. Shree Krishna Upadhyay visited the Project office.

The Orientation Meeting of Political Officials was organised on 2nd November, 1992 at Yogikuti, Butwal. Special Guests during the orientation meeting were:

- Honorable Assistant Minister Mr. D.P. Badu, Housing and Physical Planning;
- Mr. T.P. Upadhyay, Secretary, Ministry of Housing and Physical Planning;
- Charge De' Affaires, Embassy of Finland, Mr. K. Ahti

Resource Persons:

- Mr. R. Dutta, DG, Department of Water Supply and Sewerage
- Dr. B.B. Karki, Regional Director, Ministry of Health
- Mr. N.N. Singh, Regional Director, Ministry of Education and Culture
- Mr. B.P. Shah, Regional Director, Department of Water Supply and Sewerage
- Mr. D.B. Shrestha, Project Manager (HMG), RWSSP, Butwal

<u>December</u>

Mr. Antero Jarsta, the Head of Accounting and Financial Planning Department of Finnida, had visited our Project on 8th December 1992.

The World Bank resident representative in Nepal Mr. Joe Manickavasagam visited our project office, Butwal on 29th December 1992.

6. FINANCIAL REPORT

The budget for FINNIDA allocation is prepared for each calender year starting on January 1st. The budget for HMG/N allocation is prepared for each Nepalese Fiscal year starting on July 16.

Both Finnida expenditure and HMG/N expenditure are monitored monthly, but the monthly periods do not coincide, they have about 15 days difference. This difference in the auditing periods does not, anyhow, cause any problems, because the auditing of FINNIDA contribution and HMG/N contribution are not interrelated.

6.1 FINNIDA Expenditure

Following financial presentations are attached:

- Budget 1992, matrix, January 1992, Appendix 10
- Projected expenditure 1990-93, January 1992, Appendix 11
- Expenditure matrix 1992, Appendix 12
- Expenditure matrix 1990,1991,1992, todate, Appendix 13
- Projected budget for 1993, 1994, Appendix 14

FINNIDA EXPENDITUR	E in mill	ion Finnis	h Marks	Re:c\symp	hony\fin'exp
lear	1990	1991	1992	1993	Total
Estimate					
Devil 1 th thousand		10.000	10 000		
Project Document	7,000	10,000	10,000	10,000	37,000
June 1990	6,235	-	-		-
September 1990	5,500	_	-	-	***
January 1991	3,952	12,180	12,000	8,868	37,000
August 1991	3,952	7,263	13,559	12,226	37,000
January 1992	3,953	7,265	11,242	14,540	37,000
Expenditure	3,953	7,265	11,699		22,917

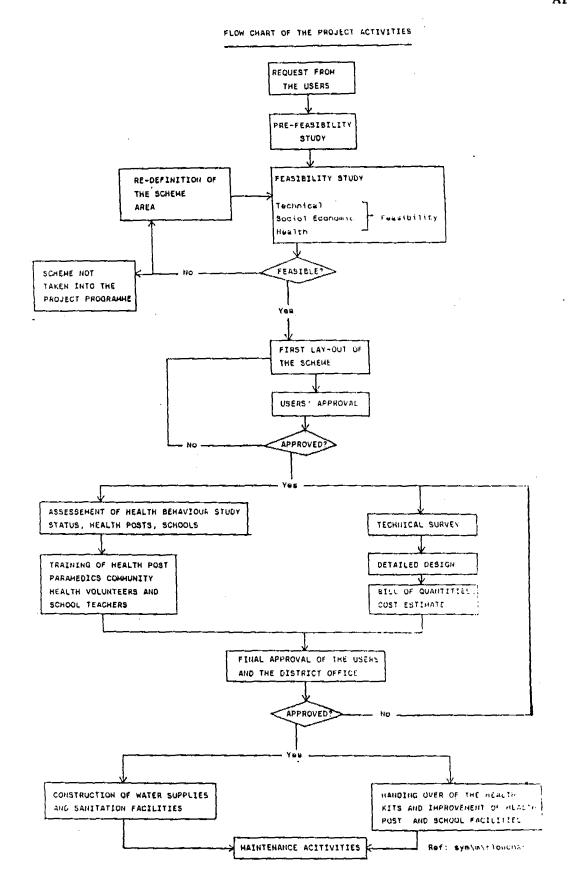
6.2 HMG/N Expenditure

Following financial presentations on HMG/N are attached

- HMG/N budget 1991/92, Appendix 15
- BMG/S expenditure to 16 November 1992, Appendix 16

A summary of HMG/N budgets and expenditue is given below:

HMG/N BUDGET AN	D EXPENDITU	RE to Nov.	1991 in mi	llion Nep	alese
Rupees					
lear	1989/90	1990/91	1991/92	1992/93	Total
Budget Espenditure	248 212	7,462 6,001	5,285 4,968	•	17,784



Revised January 1993 an\trirep\numfu3

	f -		•		
ACTIVITY	Total Completed by 1.1.1992	Completed during the Year 1992	Total Completed by Dec 1992	Total Target by Dec 1993	Percentage Coverage of Target
STUDIES AND SURVEYS					
Prefeasibility Studies Feasibility Studies Detailed Design Surveys	69 63 32	32 14 36	101 77 68	120 120 120	34% 64% 57%
Health Behaviour Study Health Post Assesment School Assesment Water Quality Tests	53 10 68 174	14 10 70 156	67 20 138 330	80 27 298 (Target se	84% 74% 46% etting not relevant)
DESIGN WORK					
Sets of Design Drawings Bills of Quantity	25 25	21 21	46 46	120 120	38% 38%
IMPLEMENTATION (CONSTRUCTED)					
Hand Pumps with Slab Tap Stands Intakes Reservoirs	22 0 0	364 113 20 22	386 113 20 22	750 750 30	51% 15% 25%
Latrines and Urinals	3	17	20	46û	4%
TRAINING			•		
Health Related Training Community Health Volunteers Village Health Workers	88 67	59 5 6	147 123	744 246	20 % 50 %
Health Post Staff (Parameds) School Teachers Health Training	55 50	40 108	95 158	54 808	175% 20%
Human Resource Development Training User Committee Training Village Gravity Maintance Workers Village Well Maintance Workers	85 0 2	416 5 64	5 66	40 200	ERR 13% 33%
Water Supply and Sanitation Technicians Basic Ground Water Training Overseer and other Senior Staff	8 48 - 10 18	27 21 53	75 31 71	60 45 60	125% 69% 118%

The coverage target will be revised following the Steering Committee Meeting 17.12.92. (Falling outside this reporting period).

Our ref: SKY\LOTUS\D_DATE

CODE I	SCHEME NAME	DEST/	SCH	WARDS	BASE	REQUEST	PRE-FEASI-	FEAS	IBILI	ITY ST	UDY	DESIGN	DETAIL	HEALTH	DETAIL	HEA	LTHT	AAII	ING	UC	AGREMENT	CONST-	CONST-
	1	YEAR	TYPE		POP	RECEIVED/	BILITY					MEETING	SURVEY	BEHAV.	DESTGN					SEMINAR		RUCTION	RUCTION
		İ				OR	STUDY	RESOURCE	HEALTH	SOURCE	SOCIAL	IN VILL.		STUDY		CHY	SCHOOL	VIIIV	₩P .			STARTED	COMPLETED
		٠ ،				REMENAL		MAPPING	MAPPING	MEASUREN	FEASIB.						TEACHERS		PARAMEDS				
11010	OUDARAKSIA I/Ram	Rup 47/48	hp	1	2717	SEP 90	SEP.90	D&C.90	DEC.90	NA	JAN 91	FEB 91	MAR 91	NOV 90	MAR 91	NOV 96	NOV 90	OCT 90	1	JUN 91	APR 91	APR 91	MAR 92
11020	DUDARAKSIA II/Ram	Rup 47/48	hp	59	2233	AUG 91	SEP.90	DEC.90	DEC.90	KA	JAN, 91	FEB.91	MAR.91	NOV.90	MAR.91	NOV. 90	MOV.90	AUG.91	AUG.91	FEB 92	FEB 92	FEB 92	
11050	DUDARAKSIA/Ram	Rup 47/48	ds	16	806	SEP 90	SEP.90	DEC.90	DEC.90		JAN.91					ĺ							
11051	DUBARAKSIA III/Ram	Rup 47/48	hp	12348	5062	SEP 90	AUG 90	DEC.90	BEC.90		JAH.91	DEC 92	ĺ		DEC 92		l I						
11080	SALJHANDI/Ram	Rup 47/48	hp	1	420	JUL.90	AUG 90	AUG.90	AUG.90	NA	AUG.90	1	-	OCT.90	DEC 91	OCT.90	NOV.90	OCT . 90	AUG.91	DEC 90	FEB 91	FEB 92	JUL 92
11070	SALJHANDI/Bhusel	Rup 47/48	grav	127	2060	JUL 90	AUG. 90	AUG. 90	AUG.90	FEB.91	ÁÜĞ.90	AUG.90	SEP.90	OCT.90	FE9.91	OCT.98	NOV.90	OCT.90	AUG.91	DEC.90	FE8.91	FEB.91	
11075	SALHANDI/	Rup 49/50	hp	589	1591			OCT 92							DEC 92								
11076	SALHANDI/	Rup 49/50	ds	36	1647			OCT 92		ĺ					DEC 92		ļ		į				
11080	DEYDAHA/Aam	Rup 48/49	hp	14689	6789	JUN 91	FEB 91	AUG 91	AUG 91	NA	AUG 91		DEC.91	MAY 92	BEC.91		DEC 92	AUG. 91	AUG.91	FEB 92	FEB 92	JAN 92	
11085	DEVDAHA/Ram	Rup 48/49	hp	2357	5962							1		MAY 92			DEC 92			}			
11090	DEVDAHA/Ram	Rup 48/49	grav	39	1600	JUN 91	FEB 91	AUG 91	AUG 91	JUN 91	AUG 91			MAY 92	ľ		DEC 92	AUG.91	AUG.91				
11095	DEVOAHA/Ram	Rup 48/49	dset	123459		•			-	1							DEC 92	!					
11100	PORAHAW/Ram	Rup 48/49	hp	12345789	10194	MAR 91	WAR 91	HAY 91	MAY 91	MA	APR.91	FEB 92	FEB 92	DEC.91	MAR 92	OCT 92	SEP 92	AUG.91	AUG.91	APR 92	APR 92	APR 92	
11110	PORAHAW/Ram	Rup 48/49	dv	456	2100	MAR 91	MAR 91	XAY 91	MAY 91	APR 91	APR.91			DEC.91		OCT 92	SEP 92	AUG.91	AUG.91				
11120	MASINA/Ram	Rup 48/49	hp	123456789	4237	JUN 91	JUN.91	AUG 91	AUG 91	HA	AUG 91	NOV.91		0EC.91	FEB 92		DEC 92	AUG.91	AUG.91	MAR 92	MAR 92	MAR 92	
11130	TANNAGAR/Ram	Rup 48/49	hp :	123	804	FE8.91	APR.91	MAY 91	MAY 91	NA	KAY.91	JUL 91		DEC.91 .	MAR 92			AUG.§1	AUG.91	APR 92	APR 92	APR 92	
11150	TANNAGAR/Ram	Rup 48/49	reha	35789	2527	APR 91	MAR 91	MAY 91	MAY 91	JUK 91	JUN 91	JUN.91	MAY 92		OEC 92			AUG.91	AUG.91	BEC 92	JAN 93		
11151	TANNAGAR/Ram	Rup 48/49	grav	6						.						-							
11155	TANNAGAR/Ram	Rup 48/49	dw	349	5035	FE0.91	APR.91	MAY 91	MAY 91	NA	MAY.91	!						AUG.91	AUG.91				
11140	GAJEDE/Ram	Rup 48/49	hp	1	1151	JUL 91	JUL 91	JUL \$1	JUL 91	NA .	JUL 91	JBL 91	AUG 91	DEC.91	JUL.91	SEP 92	SEP 92	AUG. 91	AUG.91		JUL.91	JUL.91	SEP 91
11145	GAJEDI/Ram	Rup 48/49	hp	23456789	7000	JUL 91	JUL 91	NOY.91	NOV.91	NA			DEC.91	DEC.91	DEC.91						DEC 91	DEC 91	
11190	REDCROSS D/W REHAD	Rup 48/49	reha		3960		MAR 92						MAR 92		APR 92					:		APR 92	
11180	SIMALAR	Rup		123456789	6941																	ı	
11170	LAXMI NAGAR	Rup			6941							DEC 92	JAN 92		ì								1

NAMALPARASI SCHEME FOLLOW UP AT END OF JANUARY 93 Out ref: Shv\lotus\d_date

1 300°	SCHENE NAME	DIST/	SCN	WARDS	BASE	REQUEST	PRE-FEASI-	FEAS	[BIL]	TYSI	0 D Y	DESIGN	DETAIL	HEALTH	DETAIL	HEAL	THT	RAI	IIRG	UC	AGREMENT	CONST-	CONST-
		YEAR	TYPE		POP	RECEIVED/			T	T]	HEETING			DESTON]			SENINAR		RUCTION	RUCTION
		İ	l	1		OR	STUDY	RESOURCE	HEALTH	SOURCE	SOCIAL	IN VILL.		STUDY		CHY	SCHOOL	VIII	HP			STARTED	COMPLETE
						RENEWAL		MAPPING	MAPPIKG	NEASUREN	FEASIB.		[TEACHERS		PARAKEDS				
					1	1																	
12010	BENIMANIPUR/Thapa	Nav 47/48	hp	3	800	OCT . 90	OCT . 90	JAN. 91	JAN.91	MA	JAN. 91	-		MAR. 92		FEB 92		AUG.91	APR. 91				
12030	BENIMANIPUR/Thapa	c	grav	1	1580	OCT . 90	OCT.90	JAN.91	JAN.91	18.HAL	JAN.91	JAN. 91	MAR.91	JAN.91	MAY.91	FEB 92		AUG. 91	APR.91	DEC 91	AUG 91	DEC 91	}
12020	BENIMANIPUR/Thapa	Naw 47/48	₫¥	8	1400	001.90	OCT.90	JAN. 91	JAN.91	NA	JAN. 91	-				FEB 92		AUG.91	APR.91				i
12040	BENIKANIPUR/Thapa	Raw 47/48	grav	13	1800	-	OCT.90	JAN.91	JAM.91	JAN. 91	JAN.91	-	1	JAN.91		FEB 92	İ	AUG.91	APR.91				
12050	BENIKAKIPUR/Thapa	May 47/48	grav	14	1290	-	OCT . 90	JAN. 91	JAN.91	JAN.91	JAN.91	-	1	18.HAL	0EC 91	FEB 92	HOV 90	AUG.91	APR.91	DEC 90	FEB 91	FEB 92	JUL 92
12060	BENIMANIPUR/Thapa	Haw 47/48	grav	5	800	-	OCT.90	18.KAL	JAN.91	JAN.91	JAN.91	AUG 90	SEP 90	JAN.91	FE8 91	FEB 92	NOV 90	AUG.91	APR.91	DEC 90	FEB 91	FEB 91	•
	BENIKAHIPUR/Thapa		1 -	2	1000	NOV SO			JAN. 91	JAN.91	18.NAL	FEB 92	FEB 92	JAN.91	FEB \$2	FEB 92	JUL 92	AUG.91	APR.91				
		Naw 47/48	1-	6	346	[- :	1 :	MAR 92		APR 92		ı	AUG 92		SEP 92	FEB 92				OCT 92	OCT 92	DEC 92	į
	=	Nau 47/48		6	1654		JAN 92	MAR 92		Ī		OCT 92			0EC 92	FEB 92					JAN 92	JAN 93	DEC 92
		Haw 47/48		8	2953	APR.91			MAY.91	JUN. 91	10 NUL	JUN 91		JUL 91	OCT.91	FEB 92	JUL 92			DEC 91	DEC 91	DEC 91	
		Naw 47/48	1	124579	9267			NOV 92	}				}										
12160	KUKUNDAPUR/Ram	May 47/48	hр	1234789	7000	AUG 92	MAY 91			NA	(Identif	cation o	shalle	w tube w	bna li	LTW are	as will t	e done	soon)		•		1
12170	MUKUNDAPUR/JP	Naw 47/48	grav	5	1250	KAY.91	MAY.91	HAY.91	MAY.91	MAY.91	MAY.91	KAY 91	APR 92	HOV 92	NOV 92			!		NOV 92	NOV 92	DEC 92	
12180	MUKUMDAPUR/JP	Naw 47/48	grav	6	1125	MAY.91	MAY.91	MAY.91	KAY.91	MAY.91	MAY.91	MAY 91	APR 92	NOV 92	NOV 92					NOV 92	HOV 92	DEC 92	
12080	RAKACHULI I/Thapa	Maw 47/48	grav	6	138	OEC. 90	APR 91	JUN 91	JUN 91	JUN 91	JUN 91	OCT.91	OCT.91	MAR. 92	OCT.91	FEB 92	JUL 92	AUG.91	APR.91	JAN 92	JAN 92	FEB 92	JUN 92
12090	RAKACHULI II/Thapa	Naw 47/48	grav	234	1236	DEC.90	APR 91	JUN 91	10 MUL	JUN 91	JUN 91	10. VON	NOV.91		DEC 91			AUG.91	APR.91	MAR.92	MAR 92	MAY 92	
12100	RAKACHULE/Thapa	Naw 47/48	PS	1	678	NOV 91	APR 91	JUN 91	JUN 91	10 MUL	JUH 91	NOV.91						AUG.91	APR.91				
12110	RAKACHULI/Thapa	Naw 47/48	PS	8	678.	NOV 91	APR 91	JUN 91	JUN 91	JU# 91	JUN 91	NOY.91	DEC.91			FEB 92	JUL 92	AUG.91	APR.91		:		•
	RAKACHULI/Thapa	Naw 47/48		9		1	! ' !	JUN 91	JUH 91	I	JUN 91	HOV.91					l i	AUG.91	1			APR 92	
	RAKACHUL [/Thapa	Haw 47/48		t		l i	i 1	JUN 91	JUN 91	1	JUN 91		DEC.91					AUG.91					
	KAKUWA/Prasain	Nau 48/49	-	456789		MAY 91			MAY 92	1011 91	ı	1	KAY 92		JAN 93				!	JAN 93	JAN 93		
-	DEDGAUN/Prasain	Naw 48/49		345		JAN 92			MAY 92	JUN 91	ı	•	MAY 92		JAN 93					JAN 93	JAN 93		ļ
	DEUCHULI/Prasaio	Naw 48/49	١- ١	4		5		JAN 92	JAN 92		MAR 92	1	FEB 92										
	DEUCHUL[/Prasain	Naw 48/49	١ ١	156789		l ,					MAR 92		MAR 92		i i	i	Ì		j				j
_		HAW 48/49	- 1	1356789		JUN 92		JUN 92	JUN 92	JUN 91		JUN 92	JUN 92		JAN 93					JAN 93	JAN 93		
		Kaw 49/50		123456789	i	I			į.	APR 92	AUG 92	AUG 92	AUG 92		[.		1
		Naw 49/50		238		ļ	AUG 92	AUG 92	AUG 92	APR 92	AUG 92	AUG 92	AUG 92								1		
12255	MATRAGHAT	Maw 49/50	grav	145679	1510																	. :	

KAPILBASTU SCHENE FOLLOW UP AT ENG OF

JANUARY 93

Our ref: SMV\LOTUS\O_DATE

CODE #	SCHENE NAME	BIST/	SCH	WARDS	BASE	REQUEST	PRE-FEASI-	FEAS	IBILI	TYSI	UDY	DESEGN	BETAIL	HEALTH	DETAIL	HEAL	TH T	RAI	N I N G	UC	AGREMENT	CONST-	CONST-
		YEAR	TYPE	ŀ	POP	RECEIVED/	BILITY			I]	NEETING	SURVEY	BEHAV.	DESIGN]	1	SENINAR		RUCTION	RUCTION
		-	ĺ	ĺ		OR	STUDY	RESOURCE	HEALTH	SOURCE	SOCIAL	IN VILL.		STUDY	[CHY	SCHOOL	VHV	HP	ĺ		STARTED	COMPLETED
		ļ		 		RENEWAL		MAPPING	MAPPING	MEASUREN	FEASIB.				! !		TEACHERS		PARAMEBS				
13010	BANGANGA/Rem	Kap 47/48	hn	15789	2282	OCT.90	OCT . 90	DEC.90	DEC.90	FEB.91	DEC.90	FEB.91	FER Q1	DEC.90	JUL 91	NOV Q1	MTD O.	OCT . 90	MTB O4	 KAY.91	JUN 91	JUN 91	
l.	1	Kap 47/48	1 *	12679		007.90	ı		1				APR.91		AUG.91			OCT.90		MAR.91	1	APR 92	
13030	BHALWAR/Ram	Kap 47/48	hp	12345	2282	OCT.90	NOV.90	DEC.90	DEC.90	MAR. 91	DEC.90	MAR. 91	APR.91	DEC.90	MAY.91	#0V.91	OCT.90	OCT.90	JUL.90	MAY.91	JUN 91	JUN 91	
13040	BHALWAR/Rem #	Kap 47/48	dv	678	1306	OCT.90	NOV.90	0EC.90	DEC.90	MAR.91	DEC.90	MAR. 91	APR.91	MAR.91	AUG.91		NOV 92	OCT.90	JUL.90	İ			
13050	GORSINGHE/Ram	Kap 47/48	hp	1234589	5009	QCT.90	SEP.90	NAR.91	KOV.90	NA .	MAR.91	HAY 91	HAY 91	HOV.90	FEB.91	NOV. 90	MAR.95	OCT .90	JUL,90	MAR.91	APR.91	MAR.91	
13070	MOTIPUR/Rem	Kap 48/49	hp	1234589	2200	OCT . 91	JUN.91	APR 92	APR 92		APR 92			1			MOV 92	OCT . 90	MAR.91			}	
13080	NOTIPUR/Ram	Kep 48/49	du	67	1826	OCT . 92	JUN. 91	APR 92	1	l	}			}			NOV 92	OCT.90	MAR. 91				1
13100	GAJERA/Ram	Kep 48/49	hp	123456789	7600	DEC.91	DEC.91	MAR 92	MAR 92		MAR 92	NOV 92			DEC 92			OCT.90	KAR.91	DEC 92			
13120	SHOURA/Ram	Kap 48/49	hp	123456789	2280	JAN. 92	APR.91	MAR 92	MAR 92	1	JUN 92	JUN 92	JUN 92	ļ	AUG 92			OCT.90	MAR.91	AUG 92	AUG 92	AUG 92	ļ
13130	HATHOUSA/Ram	Kap 48/49	hp	123456789	8000	DEC.91	DEC.91	FEB 92	FEB 92		MAR 92	MAY 92	JUN 92	SEP 92	AUG 92		DEC 92	OEC 92	DEC 92	MAY 92	JUN 92	AUG 92	
13140	BAKOERIA/Ram	Kap 48/49	hp	12	790	JUL 91	JUL 91	JUL 91	JUL 91	KA	JUL 91	JUL 91	JUL 91		JUL.91	JUL.91	JUL.91	AUG.91	AUG.91		JUL.91	JUL.91	MAR 92
13060	MAHENDRAKOT REHAB/	Kap 47/48	gray	6789	2650	OCT.90	NOV. 90	DEC.90	DEC.90	-	DEC.90	MAR.91	DEC 90	0EC.90	FEB.91	0EC.90	MAR.90	OCT.90	JUL.90	MAR. 91	HAR.91	APR.91	
13150	MAHENDRAKOT/Ram	Kap 48/49	hp	12345	3757	OCT 90	NOV 90	MAR 92	MAR 92		HAY 92	MAY 92	HAY 92		MAY 92		,	1		JUL 92	JUN 92	JUN 92	
13160	RAJPUR	Kap 49/50	ho	123456789	2737		MAY 92	JUN 92	JUN 92]	JUN 92	JUN 92]	JUN 92					JUN 92	JUN 92	JUN 92]

GULMI SCHEME FOLLOW UP AT END OF
OUR ref: SMY/LOTUS/D_DATE

JANUARY 93

:00E #	SCHENE NAME	DIST/	SCH	WARDS	BASE	REQUEST	PRE-FEASE-	FEAS	IBILI	TYSI	UOY	DESIGN	DETAIL	HEALTH	DETAIL	BEAL	TH T	RAII	LING	UC	AGRENENT	CONST-	CONST-
		YEAR	TYPE		POP	RECETYED/	BILITY		I			MEETING	SURVEY	BEHAV.	DESTGN		[SEMINAR		RUCTION	RUCTION
			i		İ	O#R	STUDY	RESOURCE	HEALTH	SOURCE	SOCIAL	IN VILL.		STUDY		CHY	SCHOOL	YHW	HP	İ		STARTED	COMPLETED
			ĺ			REKEWAL		MAPPING	MAPPING	MEASUREN	FEASIB.	-					TEACHERS		PARAMEDS				
															1								
14020	SINICHOUR/Thapa	Gul 47/48	ps	123456789	163	DEC.90	NOV.90	BEC.90	DEC.90	JAN.91	DEC.90	FEB.91	NOV.90	JAN.91	MAR.91	JAN.91	JUN. 91	MAY.90		APR.91	APR.91	APR.91	
14010	SENECHOUR REHAB/Th	Gul 47/48	grav	12345678	1616	DEC.90	NOV. 90	DEC.90	DEC.90	JAN. 91	DEC.90	FEB.91	NOV.98	JAN.91	KAR.91	JAN. 91	JUN.91	MAY.90		APR.91	APR.91	APR.91	JUL 92
14015	SIMICHOUR II	Gul 47/48	grav	12345678	3046		1			†		,				l.				į			
14030	AMAPUR/Thapa	Gul 47/48	grav	12345678	2070	DEC. 90	NOV.90	0EC.90	DEC.90	DEC.90	DEC.90	FEB.91	MAR.91	APR.91	APR.91		AUG.95			APR.91	APR.91	APR.91	
14040	AKAPUR/Thapa	Gul 47/48	grav	9.	455	DEC.90	NOV.90	DEC.90	DEC.90	DEC.90	DEC.90	FEB.91	MAR. 91	APR.91			AUG.91						
14050	AKAPUR/Thapa	Gul 47/48	grav	2	212	DEC.90	HOV.90	DEC. 90	0£C.90	DEC.90	OEC.90	FEB.91	HAR.91	APR.91			AUG.91		<u> </u>	l			
14060	THORGA/Thapa	Gul 47/48	grav	89	0	AUG. 90	HOV.90	FEB.91	FEB.91	JUN.91	FEB.91	HAY.91	MAR.91		dropped	techni	cally uni	easible	source b	elow supp	ly area		
14070	THORGA REHAB/Thapa	Gul 47/48	grav	123456789	1425	OCT 91	NOV.90	FEB.91	FEB.91	JUN 91	JUN 91	JUN 91	16 MAT	JUN 91	JUN. 91	DEC.91	MAR 92	APR.92	APR.92	SEP 91	SEP 91	JAN 92	
14080	THORGA/Thapa	Gul 47/48	ps	123456789	1168	-	NOV.90	F&B.91	FEB.91	JUN 91				NOV.91	JUN.91	DEC.91	KAR 92	APR. 92	APR.92	1			
14090	JHUBUNG/Thapa	Gul 47/48	grav	189	555	DEC.90	90. YOR	FE8.91	FEB.91	MAR.91	FEB.91	APR.91	KAR.91	KOV.91	JUN.91	DEC.91	MAR 92	MAY.90	APR.92	SEP 91	SEP 91	JUN.91	
14100	JHUBUNG REHAB/Thap	Gul 47/48	grav	12345678	4664	DEC.90	NOV.98	JUN. 91	10M.91	JUN 91	JUN.91	DEC 92		1									İ
14110	CHUREK/Thapa	Gul 47/48	grav	123	476	DEC.90	NOV.90	FEB.91	FEB.91	MAR. 91	FEB.91	MAR 91	MAR. 91	JUL 91	JUN. 91	DEC.91	HAR 92	APR.92	APR.92	SEP 91	SEP 91	JUN.91	
14115	CHUREK II		grav		590	1			<u> </u>	!				l I									
14120	BHATUKUKA/Thapa	Gul 47/48	grav	789	1426	JAN.91	HOV.90	JUN. 90	JUN. 91	JUN 91	JUN. 90	JUN. 91	JUN.91	NOV.91	JUN.91	DEC.91	MAR 92	APR. 92	APR.92	SEP 91	SEP 91	DEC 91	
14130	KHADGAKOT/Thapa	Gul 47/48	grav	123456789	2800	MAR.91																	
14140	MARBHUGN/Thapa	Gul 48/49	grav	1234	1600	MAR. 91	KAY.91	MAY.91	MAY.91	MAY.91	MAY 91	FEB 92		i								-	
14150	MARBHUGN/Thapa	Gul 48/49	grav	678	800	MAR.91	MAY 91	TP YAK	HAY 91	MAY 91	MAY 91	FEB 92											
14160	MARBHUGN/Thapa	Gul 48/49	grav	5	324	MAR. 91	FEB 92	FEB 92	FEB 92	[•								-
4170	ARJE/Thapa	Gul 48/49	grav	56789	1860	F£B 92	APR.91	FEB 92	FEB 92	APR.91	FEB 92	MAR 92	MAR 92				:						1
14175	ARJE/Thapa			1234	719				İ	Ì]										
14180	ARLAMKOT/Thapa	Gul 48/49	grav	12	661	MAR. 91				JAN.92	JAN.92	1	MAR 92	ł.									İ
4190	AREANKOT/Thapa	Gul 48/49	grav	345	1020	MAR.91	JAN. 92	JAN. 92	JAN.92	JAN. 92	JAN.92	1	1 1	1	1		il design						
14200	ARLANKOT/Thapa	Gul 48/49	grav	6789	1510	MAR.91	JAN. 92	JAN. 92	JAN.92	JAN. 92	JAN.92	NOV 92	MAR 92	Whole VB	it is und	er deta	il design	ing					İ
1210	ARLANKOT/Thapa	Gul 48/49	grav	6	175	MAR. 91	JAN. 92	JAN . 92	JAN. 92	JAN.92	JAN. 92	NOV 92	MAR 92	Whole VO	¢ is und	er deta	il désign	ing	j				j
4220	BHURTUNG/Thapa	Gul 48/49	grav	123456789	856	MAR.91	-]			APR.91					1						•		
4230	BHURTUNG/Thapa	Gul 48/49	grav	123456789	800	MAR.91	-	ļ		APR.91													1
4240	KHARJYANG/Thapa	Gul 48/49	grav	123456789	2522	Detail stu	dy of the s	ource dis	pute and	it's dis	harge in	dry seas	þa shou	d be cho	ked fin	lise be	fore unde	rtaking					
4250	MALAYAGIRI/Thapa≉	Gul 48/49	grav	1234	980	MAY.91	FEB 92				FEB 92	FEB 92	FEB 92									•	1
4252	WALAGIRI/Thapa	Gul 48/49	grav	1	104		FEB 92			1	FEB 92	FF8 92	FEB 92		1								[

GULKE SCHEME FOLLOW UP AT END OF OUR REF: SHY/LOTUS/D_DATE

JAKUARY 93

CODE	SCHENE NAME	BIST/	SCH	WARDS	BASE	REQUEST	PRE-FEAST-	FEAS]] []	T Y S T	UDY	DESIGN	DETAIL	HEALTH	DETAIL	HEAL	THI	RAIN	IKG	UC	AGREKENT	CONST-	CONST-
		YEAR	TYPE		POP	RECEIVED/	BILITY					WEETING	SURVEY	BEHAY.	DESIGN					SEMENAR		RUCTION	RUCTION
]				OR	STUDY	RESOURCE	HEALTH	SOURCE	SOCIAL	IN VILL.		STUDY		CHV	SCHOOL	VHW	HP			STARTED	COMPLETED
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JANUARY 93

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RURAL MATER SUPPLY AND SANITATION PROJECT LUMBING ZONE

6.2.1993
nn/research/watqual.sum

Summary Report of the

Hygienic Water Quality Data

1. GENERAL

This report is concentrating on describing the research work done on the hygienic water quality in the Rural Water Supply and Sanitation Project's scheme areas in Lumbini Zone. The Project is running a zonal water laboratory, serving the needs of the water supply construction programme. Also other clients, like the Nepal Water Supply Coorporation are using water quality laboratory.

The total number of samples analyzed so far (February 1993) is 409.

The laboratory is using the MPN method (also called the multiple tube method) for analysing the bacteriological quality of the water. It's capasity is 7 samples a week and it is run by two persons - the laboratory technician and his assistant. They are also responsible for the sample collection as per the requests from the Districts.

The physico-chemical water testing is not done in the same regularity as the bacteriological testing. Mostly the suspect cases for high calsium of iron content are tested. The samples for physico-chemical tests are sent to Kathmandu as good laboratory facilities exist there.

2. WATER QUALITY STANDARDS TO BE USED IN THE PROJECT

In the absence of other water quality standards, the WHO standards for the hygienical water quality have been used.

WHO standards for bacteriological quality of the rural water supplies:

 Untreated water entering the distribution system (spring and stream sources for the gravity water supplies)

faecal coliforms 0 number/100 ml total coliforms 3 number/100 ml

b) Unpiped water supplies (hand pump and other wells)

faecal coliforms 0 number/100 ml total coliforms 10 number/100 ml

As many of the handpumps are, however serving quite a low number of users, the above requirements seem very stricts. Especially in the view of the Project's private handpump improvment programme, the requirements should be relaxed.

3. SAMPLING ROUTINE OF THE LABORATORY

In principle the sampling routine should be as follows:

- a) All proposed gravity sources are tested during the feasibility stage, once during the rainy season and once during the dry seson. Due to the inaccessability within 6 hours, fresh and reliable samples from all parts of the project area are not available. Especially the testing Arghakhanchi and Gular scheme areas is suffering from this fact.
- b) Samples from exisiting water supply sources, to assess the pollution level of present water supply are taken on random basis. Epecially private hand pumps have been under special interest recently.
- c) Sampling of the completed project handpump wells and gravity water supply systems.
- 4. DIFFERENT FACTORS INFLUENCING THE HYGIENIC WATER QUALITY
- 4.1 Source type and protection

The distribution of the potable/suspicious/polluted samples by different source types is presented in the Table 1. Samples from completed gravity systems have not been taken in the quantity needed for any conclusions

Table 1. Bacteriolgical quality of the different source types

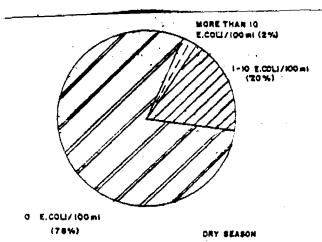
	Total sampling	of	NUMBER OF SAMPLES IN DIFFERENT CATEGOR of E.Coli pollution (E.Coli pc/100)m (% of all samples of the source type)									
		0	(%)	1-10	(%)	More tha	n 10 (%)					
GRAVITY SOURCES												
Unprotected springs	4.4	29	(67%)	15	(34%)	0	(0%)					
Streams	52	29	(56%)	16	(31%)	7	(13%)					
WELLS		,			_		•					
Tubewells with platform	99	90	(91%)	8	(8%)	1	. (1%)					
Tubewells without platfor	m, 50	78	(76%)	10	(20%)	2	(4%)					
Open wells	23	11	(48%)	12	(52%)	0	(0%)					

4.2 Season

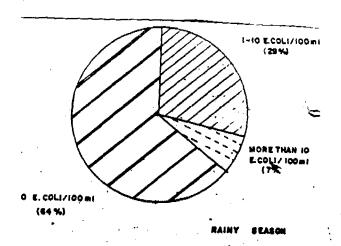
The affect of season in the total sampling is shown in the two pie charts of the Figure 1.

Figure 1. Bacteriological levels (E. Coli count) of all samples in the dry season (pie chart a) and rainy season (pie chart b).

a) Distribution of samples (% of total) in different pollution classes during the dry season



b) Distribution of samples (% of total) in different pollution classes during the rainy season



4.3 Tubewell

The effect of the depth of the tubewells in relation to two other factors (season and protection) is demonstrated in the Table 2 below.

Table 2. Bacteriological quality of the tubewells in the Terai

Depth of the tube well	Average value of E. Coli No./100 ml (in brackets the number of samples in each group)												
(m.)	Dry season	n	Rainy Seas	on									
	Platform	No Platform	Platform	No Platform									
0 - 10	0.73 (11)	0 (24)	0 (1)	0.73 (11)									
11 - 20	0 (7)	0.14 (7)	0 (2)	1 (1)									
21 - 30	- (0)	0 (3)	0.25 (16)	0.2 (5)									
31 - 40	0 (10)	0 (2)	0 (16)	3 (2)									
41 - 50	0 (3)	0 (1)	0 (9)	0.5 (2)									
51 - 60	0 (1)	0 (1)	0 (5)	-									
61 and more	0.25 (8)	0.3 (3)	0 (2)	-									

Due to the small number of samples in each group, statistical analysis of Table 2. is difficult. In the stoups of very shallow wells and generally the samples taken during the rainy season, there seems to be slightly more polluted samples. Also polluted samples in general in the tubewell data are very few and pollution levels of those are also low.

4.3 Gravity sources

Table 3. shows the influence of the season to the water quality of the unprotected gravit; sources. Unfortunately number of protected sources analysed is too low to draw any conclusion.

Table 3 a) Unprotected gravity sources, influence of season to the pollution levels, number of samples in each group

TYPE OF SOURCE	-	RY SEASO		100 🛥	RAINY SEASON Number of E.Coli/100 ml					
		0	1-10	10 o	r	1	0	1-10	10 or more	
Stream	1	. 27	13		3	;	2	3		4
Spring	;	22	3		0	;	7	12		0
Total gravity	!	49	16		3	;	9	15		4

Table 3 a) Unprotected gravity sources, influence of season to the pollution levels, % of samples in each group

TYPE OF SOURCE	DRY SEASON Number of E.Coli/100 ml						RAINY SEASON Number of E.Coli/100 ml						
	0		1-10	10 mor			O) -	1-10	10 or			
Stream	 	63%		0%		7%;		22%	33	x	44%		
Spring		88%	1	2%		0%;	7	37%	63	x	- 0%		
Total gravity		72%	2	4 %		4%!		32%	47 9	X	14%		

Unfortunaterly the number of samples in each group is quite low, but still the effect of the rainy season can be seen. There are somewhat more samples in the categories of 1-10 and more than 10 E.Coli/100 ml during the rainy season.

5. Conclusion

From the available data the following conclusions could be drawn.

- generally water quality in all tubewells during the dry season is good.
- water quality in tubewells is generally very good, very few polluted samples were found. Wells less than 10m of depth seem to have pollution, during all seasons and with or without platform.
- water quality deteriorates somewhat in the unprotected gravity sources during the rainy season, although more rainy season sampling must be done to verify this.

6. Recommendation

More research should be done specifically for shallow depth wells with and without platform. With more attention being given to other possible influencing factors.

7. Future emphasis of sampling

More tubewell data to form shallow and deep, with and without platform tubewells is needed.

More data on protected and unprotected gravity sources, especially during the rainy season is needed.

COUPSES ORGANIZED QURING 1992

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SHORT DESCRIPTION OF THE COURSE CONTENTS

The following training activities have been undertaken during the year:

A. Orientation and training in community participation exillet .

- 1. Overseer course in preliminary surveys and designs. A one week course to familiarize the DWSO overseers and assistant engineers with the RWSSP procedures. A pre-feasibility, feasibility study and a design meeting is undertaken in a scheme area during the course. Course organized by RWSSP\PIU. This course was meant oto give insight into the pre-construction and community involvment activities.
- 2. Community participation course for technicians. A one week course for technician level staff in RWSSP procedures, communication skills and community mobilization. A field exercise in resource mapping is undertaken during the course. Course organized by RWSSP/PIU.

B. Technical training

- 1. Water Supply and Sanitation Technician training. The system to produce the Water Supply and Sanitation technicians is based on the three year programme three two months courses are organized and the trainees are supposed to work in the field in the mean time. Water Supply and Sanitation Technician training courses:
 - 1.1 Basic Foreman Training A two months course in basic skills in constructing a gravity water supply scheme as a community effort. A small gravity scheme is constructed during the course. Course organized by Helvetas/RD in Pokhara. This year the course was organized in Makanpur, Tanahu District.
 - 1.2 Upgrading Training. Second stage in the WSST training. A two months course giving more practice in gravity schemes and sanitation construction. A small gravity scheme is constructed during the course. Course organized by Helvetas/RD in Pokhara. This year the course was organized Tanahun District.
 - 1.3 Final Foreman 'raining. This is a two months course and those who pass this will ge the certificate of the Water Supply nad Samitation technician. A small gravity scheme is constructed during the course. Course organized by Helvetas/RD in Pokhara. This year the course was

organized Tanahun District.

Other courses in technical training:

- 3. Design of Gravity Water Supplies. One months course in technical survey and design of a gravity scheme using the CWSS/RWSSP design criteria. In the year 1992 this course was organized in Butwal as a cooperation of the Helvetas/Pokhara and RWSS Project.
- 4. Basic groundwater training. A one month course in survey and construction of a tubewell scheme with a sludging method. A groundwater scheme area is surveyed during the training and 3 5 tubewells, complete with platforms and drainage, are constructed during the training. Course organized by RWSSP/PIU in Rajpur village in Kapulbastu.
- 5. Institutional latrine construction. This was organized twice during the year. A practical course in how to mobilize the school/health post for the latrine construction and actual construction techniques of the VIP latrines. 4 5 latrines were constructed during each course. Courses were meant for technician level staff.

C. Village level training

- 1. Users Communittee training. Three different seminars, each one to two days, is organized in each scheme area:
 - first seminar is before the construction anctivities start. All the responsibilities of each party and the rules of the project implementation are made clear. Agreement between the village and the District Engineer is signed after this seminar.
 - second seminar is organized during the construction to find out possible problems. Two large seminars of several project areas were organized last year, one in Gulmi and one in Kapilbastu.
 - third seminar, after the construction is completed, is emphasising the operation and maintenance.
- 2. Village Maintenance Worker training. Village manitenance workers are trained in Pokhara by Helvetas/RD for one month in case of the gravity ater supplies. For the hand pumps schemes a two days course is organized by the District Water Supply Office in the school areas.

SHORT DESCRIPTION OF THE COMMUNITY PARTICIPATION ACTIVITIES IN EACH RWSSP SCHEME AREA

As described in the previous work plans, the community involvement is not considered to be a separate subproject, but a method of implementation of the water supply, sanitation and health education programme. A step-by-step procedure of project implementation has been developed to guarantee the involvement of the communities in the planning, implementation and management work of the schemes. This step-by-step procedure is briefly presented in a form of a flow chart in the Appendix 1.

The community involvement activities are present in all subprojects, and especially emphasized in the human resource development and health education and sanitation programmes. Obligatory community involvement activities are also being implemented during the water supply programme.

The community participation activities in each scheme area are, in short, as follows:

- 1. A request must be received from the villagers before the project enters into any negotiations with the village.
- 2. Discussions with the a number of villagers and key-informants during the pre-feasibility study, to verify the genuine request and need (present coverage of water supply).
- 3. Users' Committee formation (by the community)
- 4. Resource mapping (including water resources, health resources, population etc.) done by the inhabitants in all the clusters of a Village Development Committee, during the feasibility study. Focus group discussions. Source selection and solving the possible source disputes done by the community.
- Design meeting with the villagers. Decisions over the type of 5. water supply, lay-out and location of main structures and tap stands/wells done in a wardwise meeting by the community.
- Collection of the maintenance and health fund by the 6. community.
- Community selects candidates for Village Maintenance Worker 7. and Community Health Volunteer training.
- A seminar organized to the users' committee, to introduce the 8. design of the scheme and the construction procedures. Management, manpower etc. issues discussed.
- Agreement made between the DWSO and the Users' Committee. 9.
- Community organizing the manpower, skilled workers, collection 10. of local materials and generally the management of the construction work together with the DWSO technician. Village Maintenance Worker's on-th--job training. CHV training.
- A discussion meeting for several users' committees in ongoing 11.
- scheme areas to discuss the problems of construction work. Second seminar for the Users' Committee, discussing operation 12. and maintenance, fund raising and organizing labour for main-

. . .

APPENDIX 7/2

tenance, accounting etc. Organized after the completion of the scheme.

- 13. Village Maintenance Workers formal training, a one month training course.
- 14. Completion ceremonies of the scheme. Formal handing over certificates.

LIST OF MOTOR CYCLE FORM TRANSPORT SECTION.

s/N	YEHICLE NO.	VEHICLE TYPE	11111
1.	16-0-46	XL Honda	1 1 1
2.	16-0-47	XL Honda	
3.	16-0-48	XL Honda	1111
4.	16-0-49	XL Honda	1
5.	16-0-50	XL Honda	11111
6.	16-0-51	XL Honda	1
7.	16-0-52	Hero Honda	1
8.	16-0-53	Hero Honda	1
9.	16-0-87	XL Honda	1
10.	16-0-88	XL Honda	1
11.	16-0-89	XL Honda	
12.	16-0-90	XL Honda	
13.	16-0-91	XL Honda	
14.	16-0-92	XL Honda	
15.	16-0-93	XL Honda	
16.	16-0-94	XL Honda	
17,.	16-0-118	Hero Honda	
18.	16-0-119	Hero Honda	
19.	16-0-120	Hero Honda	
20.	16-0-121	Hero Honda	
21.	16-0-122	Hero Honda	
22.	16-0-123	Hero Honda	
23.	16-0-124	Hero Honda	
24.	16-0-125	Hero Honda	
25.	16-0-126	Hero Honda	
26.	Ba.A.B. 2682	Hero Honda	
27.	Ba.A.B. 3803	Hero Honda	
28.	Ba.A.Ma. 5407	Hero Honda	
		1	

LIST OF VEHICLE FROM TRANSPORTATION SECTION

S/N	VEHICLE NO.	; VEHICLE TYPE
1.	16-0-39	Single Cabin
2.	16-0-40	Single Cabin
3.	16-0-41	Station Wagon
4.	16-0-42	Double Cabin
5.	16-0-43	Double Cabin
6.	16-0-44	Tata Truck
7.	16-0-45	Tata Truck
8.	16-0-84	Station Wagon
9.	16-0-85	Station Wagon
10.	Lu.A.Ta. 1244	Ford Tractor
11.	Lu.A.Ta. 1245	Ford Tractor
12.	Lu.A.Ta. 1253	Ford Tractor
13.	Lu.A.Ta. 1272	Belarus Tractor
14.	Lu.A.Ta. 1274	Belarus Tractor
15.	Lu.A.Ta. 1275	Belarus Tractor
16.	Lu.A.Cha. 243	Mahindra Jeep
17.	Ba.A.Ya. 1331	Toyota GL. Car
18.	Ba.A.Ya. 104	Toyota Land Cruiser

PERSONNEL INFORMATION OF THE PIU

A. PIU/HMG STAFF

Project Manager 1.1.92-1.11.92 Mr. D.B. Shrestha Project Manager 1.12.92-31.12. Mr. A.K. Ranjitkar Engineer Mr. D. Gubedi Mr. N. Shrestha Overseer Mr. D. Pandit Health Officer Mr. H. Acharya Accountant Administ. Asst. Mr. B. Shrestha Peon and Guards Fotal 3

B. CONSULTANT'S STAFF

Long Term Field Staff

Project Coordinator 1.1.-15.5.92 Mr. T. Arola Project Coordinator 15.5.-31.12.92 Mr. J. Notley Rural Water Supply and Sanitation Adviser/ Procurement Officer Mr. J. Piekkari Health Advisor 1.1. - 1.8.92Dr. V. Shrestha Health Advisor 1.11.-31.12.92 Mr. K. Upadhaya Training Coordinator Ms. M. Notley Water Supply and Sanitation Engineer Mr. R. Bhusal Administrative Officer Mr. K.Adhikary Liaison Officer Mr. S. Wagley Health Training Officer Ms. K. Pandey Health Training Officer Ms. U. Shrestha Mr. B.B. Thapa Community Training Off. Mr. J. Prasain Community Training Off. Community Training Off. Mr. Ram Bdr. K.C. Mr. S. Vaidya Data analyst

Support Services' Personnel

Procurement Assistant Mr. R. K. Lohani Accountant Ms. L. M. Rana Jn. Procurement Asst. Mr. S. G. Thapa

Secretaries Storekeepers Other support services' staff; drivers, guards, etc. 5 persons 2 persons

35 persons

Health Education and Sanitation Programmes' Assistant Staff

Health Training Assistant 2 persons
Laboratory staff 2 persons
Village Hygiene
Promotors 2 persons

District Nater Supply Development Planning Personnel
Senior DDP Engineer 1.1.-1.11.92 Mr. P. Bista (temporary)
DDP Engineer Mr. R. Bhora (temporary)
Draughtsmen 3 persons (temporary)
Overseers 7 persons (temporary)
Enumerators 45 persons (temporary)

Home Office Personnel

Home Office Coordinator 1.1.-31.4.92 Ms. A. Keinanen Home Office Coordinator 1.5.-31.12.92 Mr. E. Ovaskainen Home Office Secretary Ms. Sirkku Koivisto

Short Term Consultants

DDP Advisor 1.3.-1.4.92 Mr. O. Purhonen

1992 15 60 61 61 Appendin

FILE:\SYMP\DATA\JEREMY\BUD'92F
SUMMARY PRESENTATION OF DRAFT FINNIDA BUDGET FOR 1992

	SUB TOTAL	321*-*	\$22* *	323*-*	551* *	\$\$,75.8	135* *	212* *	213* *	.'14* * .	'15' .	'4'11 T	,''}
1 CONST OF W/S +TDILET	5005132	4146000	120000	30000	567306	14 1826	0	0	o	0	0	0	0
4 GENERAL/OTHER CONSTR COST	518000	250000	20000	5000	96000	10000	137000	0	0	0	0	0	0
5 WORKSHOP AND STORES	92000	5000	45000	0	40000	0	2000	0	0	0	0	0	0
6 LABORITORY	40000	22000	7000	0	11000	0	0	0	0	0	θ	0	0
7 DISTRICT DEV PLAN	340000	. 234000	84000	0	19000	0	3000	0	0	0	0	0	0
B DISTR/INSTI/SCHEME SUPP	157000	0	20000	0	55000	0	10000	0	72000	0	0	0	0
PHESP	315000	139000	72000	0	17000	0	3000	42000	0	42000	0	0	ο
10 HUMAN RESOURCES DEV	413500	21000	7500	3000	254000	0	12000	92800	0	23200	0	0	0
11 OFFICE HELSINKI	25000	0	o	0	19000	D	4000	0	0	0	0	2000	. 0
12 OFFICE NEPAL	340000	117000	54000	2000	149000	10000	8000	0	0	0	0	0	0
13 VEHICLES	450000	282000	60000	0	37000	44000	27000	0	0	0	0	0	0
14 CONTINGENCIES	769563	384782	76956	76956	76956	76956	76956	0	0	G	0	0	0
15 CONSULTANT FEE	2580000	0	0	0	0	0	0	0	2580000	0	0	0	0
16 CONS/STAFF COSTS	197000	0	0	0	0	0	0	0	0	0	0	25000	172000
	11242195	5600782	566456	116956	1341262	282783	282956	134800	2652000	65200	0	27000	172000

EXPENDITURE FOR 1990 & 1991, BUDGET SUMMARY FOR 1992, TENTATIVE BUGET SUMMARY FOR 1993 FILE NAME C:\SYMPHONY\DATA\jeremy\bud92'F

		EXPENDITURE*	EXPENDITURE	BUDGET	TENTATIVE	PROJECT SUB
	•	1990	1991	1992	1993	TOTAL
1	SCHEME AND TOILET CONSTRUCTION	243,687.71	3,115,849.32	5,005,132	7,953,285	16,317,954
,4	CAPITAL INVEST/SCHEME OVERHEADS	0.00	490,811.56	518,000	600,000	1,608,812
5	WORKSHOP AND STORES	42,410.07	71,188.92	92,000	40,000	245,599
6	LABORITORY	14,085.72	38,455.26	40,000	40,000	132,541
7	INSTITUTIONAL SUPPORT	0.00	312,415.72	340,000	400,000	1,052,416
8	DISTRICT DEVELOPMENT PLANS	13,920.72	61,728.51	157,000	160,000	392,649
9	HEALTH PROGRAMME	30,653.66	45,239.01	315,000	500,000	890,893
10	HUMAN RESOURCE DÉVELOPMENT	30,811.41	84,187.04	413,500	500,000	1,028,498
11	OFFICE HELSINKI	29,050.86	26,985.53	25,000	35,000	116,036
12	OFFICE NEPAL	283,413.11	278,159.11	340,000	340,000	1,241,572
13	VEHICLES/TRANSPORTATION	831,612.18	452,439.62	450,000	200,000	1,934,052
	Sub total 1.	1,519,645.44	4,977,459.60	7,695,632	10,768,285	24,961,022
14	CONTINGENCIES	63,423.40	0.00	769,563	1,076,829	1,909,815
	Sub total 2.	1,583,068.84	4,977,459.60	8,465,195	11,845,114	26,870,838
15	TECHNICAL ASSISTANCE	1,921,598.28	2,117,701.25	2,580,000	2,475,000	9,094,300
16	OTHER CONSULTANT/STAFF COSTS	448,233.97	169,628.56	197,000	220,000	1,034,863
	TOTAL	3,952,901.09	7,264,789.41	11,242,195	14,540,114	37,000,000
	QTR1	1,272,357.54	2,296,925.04	2,250,000		
	QTR2	934,071.09	1,825,649.59	2,810,000		
	QTR3	915,140.28	1,794,240.34	2,810,000		
	QTR4	831, 532, 18	1,347,974.44	3,720,000		
	TOTAL	3,952,901.09	7,264,789.41	11,242,195		

^{*} Adjusted codes to 1991-1993 format

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SUMMARY	MAIRIX	FOR	THE	YEAR	1392
PROJECT					
CODE					
				-	

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MS WORKSWOPS/STORES

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48 BISTR DEV PLANS

18 MUMAN RES DEV

12 OFFICES MEPAL

14 CONTINGENCIES

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SUMMARY FOLION UP EXPERIORTURE TODATE

FILE MAME C:SYN\STATUS\ACFU'12.UR1 PREPARED IN THE END OF DECEMBER 1992

NEPARED IN THE END OF DECEMBEN 1992								
			ACTUAL	ACTUAL	ACTUAL	ACTUAL		TOTAL TOURTE
•	EXP	EXP	EXPENDITURE	EXPENDITURE	EXPENDETURE	EXPENDITURE	EXP	V2 10
	1990		ATO NT E	10 TH QTR	11 TH QIR	12 TH GER	1992	
	;		1				1	
SCHENE AND TOTLET CONSTRUCTION	243,687.71	3,115,849.32	\$ 353,349.44	1,697,997.60	479,529.03	3,111,159.41	5,612,634.84	4,602,171.91
CAPITAL INVEST/SCHENE OVERHEADS	8.00	490,811.56	\$ 64,049.39	16,798.23	14, tca.23	134,340.85	289,283.70	780, 100.26
WORKSHOP AND STORES	42,410.07	71,188.92	15,161.72	12,190.21	11,926.47	11,541.87	51,420.33	165,819,12
LABURT ORY	14,085.72	38,455.26	1,117.54	1,480.21	1,035.85	6,166.58	16,300.86	68,341.04
TINSTITUTION SUPPORT	0.00	312,415.72	225,069.40	75,123.21	18,088.45	110,439.47	497,520.40	1,069,935.52
PESTRECT DEVELOPME" PLANS	13,920.72		•	148,668.55	148,021.85	258,451.66	, 632 , 693 . 12	708,342.35
HEALTH PROGRAMME	30,653.66	45,239.01	24,070.91	36,663.00	13,586.76	23,450.62	110,579.29	194,471.34
A NUMAN RESOURCE DEVELOPMENT	30,811.41	. ,					•	
II OFFICE HILSINKI	29,050.06					•	-	
12 GFFICE MEPAL	283,413.11		-		-	•		1,633,134.34
13 VENICLES/TRANSPORTATION	831,612.18		•		-	•	-	1,978,551.35
Sub total 1.	1	4,977,459.60				4,575,357.04	1,117,221.47	
14 CONTRECECTES	63,423.40	0.00				-		
Sub totel 2.			1,259,219.70					
	1	<u>.</u>	1	•			-	H
15 TECKRICAE ASSISTANCE	1,921,598.28	2,117,701.25	595,451.47	655,927.7	4 600,650.61	451,511.84	2,304,040.93	6,343,340.46
16 OTHER CONSULTANT/STAFF COSTS	448,231.97			•		•		
	6		1	.,	-,			1
ioin	1.952.901.09	7.264.789.41	1,913,592.04	2.482 212.5	1 [.664.641.4]	5.117.537.70	11,619,486.20	. 22.811.174.74

CURAL MATER SUPPLY AND SANITATION PROJECT. LUMBING ZONE. NEVAL EXPENDITURE IN 1993, 1991 AND 1992. BUDGET FOR 1993. TEXTATIVE SUCCES FOR 1994

FILE MARE C:SYN/J/F/TOTAL DUDGET REGULREMENTS 38-34. UR1(T3R3094)2

		, ·			TOTAL	TOTAL
					TEXTATEVE	Expectes
	•					! PROJECT
	1536	1291				EXPERDITURE
	7.50	4 01				
		•.,,	****	***	3.40	1
	81 288	104 104	144 446	101 500	150 609	1 944 /45
hut toe						
COLICA	428,492	994,223	(3),4#2	1,441,213	393,334	4,219,645
744						
						12,139.338
FYAZ						
	14,086	38,455	16,290	37,133	49,846	146,828
	· ;	312,416	497,521	232,088	255,288	1,497,204
· ·	13,921	61,729	432,493	371,327		1,129,678
	10,454	45,239	118,579	556,991		1,384,154
						1,010,125
		_	-			
		_				
	1,521,598	2,117,701	2,304,041	2,520,000	2,\$71,200	11,534,548
	448,234	169,629	278.215	252,000	287,120	1,415,198
	i					500,000
	1 459 441	7 984 788	11 781 488	7 400 600	4 490 824	
SE ION	* ********	1,447,108	1,101,107	1,000,000	9,700,027 ;	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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tzer)	. 0	0	. 0	0	2,737,409	2,737,469
N DIRECT AND INDIRECT IN 1994	4,381,253	7,868,019	12,492,978	8,993,273	10,021,566	44,257,089
(A1,81,01)	580,052	3,612,181	6,264,636			
(86,89,810)	15,551	167,881	566,032	815,064	896,570 ;	
(88)	13,921	61,728	632,693	_ 311,727	50,000 ;	
(84,87)	0	803,227	986,810	411,143	459,518 ;	
(A1,85,811,812,813,816,C1)	1,726,708	1,105,300	1,738,766	1,229,745	1,183,50	7,484,104
	1,421,598	2,117,701	2,304,041	2,520,000	2,671,200	
1 # 19 1						
(815) (814)	63,423	0		438, 109	322,046	874,378
	•	0		438,505		874,37 8
(814)	63,423	0	-	438,505	322,046 ;	874,37 8
(814)	4,381,253	7,868,019	12,492,978	438,909	322,046 ; 10,021,566 ;	#*4,378 ; 44,257,089 ;
(814)	63,423	7,868,019 5,147,088	12,492,978 9,307,445	438,509 8,593,273 6,888.000	322,046 ; 18,021,566 ; 3,888,624 ;	#*4,378 44,257,089 25,965,468
(814)	4,381,253	7,868,019	12,492,978	438,109 8,593,273 6,080.000 2,529,000	322,046 ; 10,021,566 ; 3,888,624 ; 2,871,280 ;	8*4,378 ; 44,257,089 ; 25,985,488 ; 11,534,546 ;
(814) • (¢2-818)	4,381,253 2,831,303	7,868,019 5,147,088	12,492,978 9,307,445	438,509 8,593,273 6,888.000	322,046 ; 10,021,566 ; 3,888,624 ; 2,571,290 ; 803,334 ;	8*4,378 44,257,089 25,965,460 11,534,546 4,019,688
(814) (C2-815) (818) (A3)	4,381,253 4,381,303 1,921,500	7,868,019 5,147,080 2,117,701	9,397,445 2,304,641	438,109 8,593,273 6,080.000 2,529,000	322,046 ; 10,021,566 ; 3,888,624 ; 2,871,280 ;	8*4,378 44,257,089 25,965,460 11,534,546 4,019,688
(814) o (62-815) (815)	4,381,253 4,381,253 2,831,303 1,821,538 428,352	7,868,019 5,147,088 2,117,701 603,223	9,397,445 2,304,041 191,487	438,909 8,993,273 6,080.000 2,529,000 1,393,273	322,046 ; 10,021,566 ; 3,888,624 ; 2,571,290 ; 803,334 ;	8*4,378 44,257,089 25,985,488 11,524,546 4,819,688 2,737,408
	ICH EADS ** ** ** ** ** ** ** ** ** ** ** ** **	7.50 7.50 91,288 91,288 338,384 428,252 ICM 243,688 EAGS 0 13,921 14,086 0 13,921 29,051 29,051 29,351 29,351 29,351 29,351 29,351 29,351 29,351 29,351 29,351 1,519,645 63,423 1,553,089 1,921,588 448,234 Wation 3,952,801 IN DIRECT AND INDIRECT 4,381,253 IN 1994 (A1,81,01) 580,052 IN 1994 (A1,81,01) 580,052 (B6,89,810) 75,551 (B8) (84,87) 0	7.50 9.03 7.50 9.03 \$1,288 108,898 338,344 426,331 428,052 503,229 IDM 243,888 3,115,349 EADS 8490,512 42,418 71,103 14,086 28,455 8 212,416 13,921 61,729 30,654 45,238 30,811 84,187 29,051 28,986 283,413 278,158 831,812 452,448 11,519,645 4,977,468 63,423 0 1,593,089 4,977,468 63,423 0 1,593,089 4,977,468 63,423 0 1,593,089 4,977,468 13,921 61,728,789 INT 1994 (A1,81,01) 580,052 3,812,181 (B6,89,810) 75,551 167,881 (B6,89,810) 75,551 167,881 (B8) 13,921 61,728,	1936 1991 1992 1992 1992 1992 1992 1993 1993 1994	7.50 9.09 9.33 8.30 91,288 106,898 169,490 291,506 338,384 496,331 522,031 1,111,757 bution 428,252 503,229 731,432 1,333,273 IDM 243,888 3,115,348 5,542,935 2,039,717 EADS 8430,512 229,259 125,844 42,419 11,109 51,420 37,133 14,886 28,455 16,200 37,133 14,886 28,455 16,200 37,133 14,886 28,455 16,200 37,133 13,921 61,729 632,493 371,327 38,834 45,238 118,579 556,931 39,811 84,187 431,153 229,948 29,051 28,986 11,888 27,858 283,413 278,159 531,533 371,327 831,872 452,446 99,499 259,929 1,519,645 4,977,466 9,119,229 4,389,031 63,423 0 0 438,308 1,593,089 4,977,466 9,119,229 4,389,031 15,519,645 4,977,466 9,119,229 4,389,031 15,519,645 4,977,466 9,119,229 4,389,031 15,519,645 4,977,466 9,119,229 4,389,030 1,593,089 4,977,466 9,119,229 4,389,030 1,593,089 4,977,466 9,119,229 4,389,030 1,593,089 4,977,466 9,119,229 4,389,030 1,593,089 4,977,466 9,119,229 4,389,030 1,593,089 4,977,468 9,119,229 4,389,030 1,593,089 4,977,468 9,119,229 4,389,030 1,593,089 4,977,468 9,119,229 4,389,030 1,593,089 4,977,468 9,119,229 4,389,030 1,593,089 4,977,468 9,119,229 4,389,030 1,593,089 4,977,468 9,119,229 4,389,030 1,593,089 4,977,468 9,119,229 4,389,031 1,519,646 4,877,468 9,119,229 4,389,030 1,593,089 4,977,468 9,979,889 4,979,889 4,979,889 4,979,889 4,979,889 4,979,889 4,979,889 4	EXP EXP EXP EXP QUOGET SUPPORT 1930 1091 1392 1993 1994 7.50 9.03 9.23 8.30 8.30 81,288 108,898 169,490 281,505 150,602 336,344 476,331 372,031 1,111,757 452,731 bution 428,252 533,229 731,422 1,231,273 103,344 10X 243,888 3,115,348 5,542,935 2,038,717 1,048,537 EADS 8 430,512 229,239 155,644 224,223 42,418 71,159 51,420 37,133 48,846 8 312,414 697,521 232,080 255,288 13,921 61,729 432,933 371,327 50,008 130,854 45,238 118,579 556,991 612,690 310,854 45,238 118,579 556,991 612,690 310,854 45,238 118,579 556,991 612,690 310,854 45,238 118,579 556,991 612,690 310,854 45,238 118,579 556,991 612,690 310,854 45,238 118,579 556,991 612,690 283,413 272,159 521,533 371,327 408,448 833,812 452,440 898,499 259,829 255,922 1,519,645 4,977,460 9,119,229 4,389,031 3,220,486 43,423 0 0 448,830 322,046 13,423 0 0 448,830 322,046 13,521,564 4,977,460 9,119,229 4,828,000 3,542,504 1,521,586 2,117,101 2,304,041 2,500,000 6,480,824 1108 3,852,801 7,264,789 1,701,485 7,600,000 6,480,824 11094 11094 (A1,81,01) 580,052 3,812,181 5,264,636 3,200,484 4,438,647 IN DIRECT AND ENDIRECT 4,381,253 7,868,019 12,492,978 8,993,273 10,021,566 IN 1994 (A4,87) 0 0 0 0 2,737,409 (B8) 13,921 61,728 632,533 31,777 50,000 (B8) 13,921 61,728 632,533 31,777 50,000 (B8) 13,921 61,728 632,533 31,777 50,000 (B8) 13,921 61,728 632,533 31,777 50,000 (B8) 13,921 61,728 632,533 31,777 50,000 (B8) 13,921 61,728 632,533 31,777 50,000

RUPEES IN THOUSANDS

HNG/N BUDGET BREAKDOWN FOR FESCAL YEAR 048/49 (1991/92)

FUNO NO. :	PARTICULAR	PA	LPA	; GOLX	(1	; ARGH)	YKHANCHI	; RUPANO	ERI	; KAPIL	BASTU	! NAWAI	PARAST	3	0.1.9	•	\ ! !	PROJECT	IKTOT
		FOTAL	¦ HNG	; total	HMG	; rotal	¦HKG	16131	HAG	10146	¦HNG	¦TOTAL	¦HNG	TOTAL	HMG	¦FENHEDA	TOTAL	HMG	¦F[NNTDA
1	Salary	86	; 86	; 103 ;	103	; 56	; 56	120	120	154	154	137	137	294	294) 	950	950	† -
2 ;	Allovance	; 0	; 0	; 0;	. 0	, 0	: 0	1 0	; 0	; 0	; 0	; 0	; 0	; 5	; 5	1	; 5	; 5	1
3 ;	TA/DÁ	; 33	; 33			29	; 29	, 16	, 36	, 48	18	; 52	\$ 52	; 10	, 10	1	300	, 300	-
- 6.14	Service Fees	; 0	; 0	; 0;	; 0	; 10	10	; 0	. 0	. 0	; 0	10	; 10	† 45	1 45	1	65	65	-
4.2 }	Service Other	; 5	1 1	; 0;	0	; 5	; 5	, 0	; 0	. 0	; 0	; 0	; 0	1 65	1 65	k F	15	15	t t
5 ;	Reat	36	; 36	; 6;	6	; 18	; 18	; 0	; 0	; 0	; 0	; 13	13	52	52	1	; 125	125	;
6 ¦	Repair/maintenance	; 15	15	; 8;	. 0.	; 5	1 5	· · · · · 0	; 0	; 0	; 0	; 0	1 1 0	10	10	1	; 30	30	1
1.14	Office Equipment	; 8	, 8	; 5 ;	5	; 5	. 5	; 5	5	, 5	; 5	1 4	1 4	93	; 93	1	125	125	1
1.2 ;	Nevs Paper	; 0	. 0	; 0;	Q	. 0	; 0	; 0	;	. 0	; 0	; 0	;. 0	1. 6	, 6	1	ί	, δ	ſ
1.1.1	Yehicle Fuel	20	; 20	; 10 ;	18	; 10	18	; 0	; 0	; 0	; 0	; 0	; 0	35	. 85	1	125	125	1
1.1.2 ;	fuel Others	; 0	; 0	; 0 ;	0	; 0	; 0	; 0	; e	; 0	, 0	; 0	; 9	1 5	; 5	1	5	, 5) V
1.5.1	Office Other Goods	; 8	. 8	; 8 ;	, 8	1 : 1	\$;	; 5	; 5	; 5	; 5	. 5	5	36	35	1	125	125	1
9 ;	Other Fund	; 0	, 0	, 0 ;	; o	, 0	; 0	; 0	, 0	, 0	, 0	; 0	i n	25	; 25	1	25	25	1
10.1	furniture	; 0	; 0	¦ 10 ¦	t to	10	10	; 0	; 0	; 10	; 10	; 10	; 10	60	1 60	1	100	100	1
10.2	Vehicle	; 0	; 0	; 0;	Ç.	; 0	; 0	; 0	; 0	. 0	; 0	; 0	; 0	; 20	20	i	20	20	1
10.1	Nachine Lools	; 8	, 0	0	, 0	(6	, 8	, 0	, 0	; 0	, 0	, 0	; 6	1 1115	1 115	1	; 225	125	1
11.1 }	Land Procurement	; 0	; 0	102	102	; 0	; 0	; 0	; 0	; 0	; 0	; 0	; 0	198	198	1	300	300	1
12.1	House Construction	; 0	0	. 0	, 0	0	, 6	; 0	ļ ĝ	; 0	; 0	; 0	. 0	; 0	; 0	1	, 0	; 1	1 1
9.2 }	Other Construction	114	1 114	408	108	101	; 101	1.88.4	188.5	હદન	¦ 650	1 301.5	2.126	13381	1866	1 20006	1 56334	; 6334	, 500000
· · · · · · · · · · · · · · · · · · ·	Grand lotal	385	; 385	1 111	n_{1}	; 261	; 20	; 888.5	 1 888.5	382	: 282	1 572.5	1 5/2.5	25285	5,285	20000	29000	9000	; 20000

Franshaled from Hepali

HMG/N budget 1991/92, Appendix

* *

FILE NAME (A) C:\SYM\QTR9\HMGTRI.WR1
DATE 13.12.1992

RURAL WATER SUPPLY AND SANITATION PROJECT
HMG/N EXPENDITURE FROM THE BEGINNING TO KARTIK 2049
Expenditure in Rupees (Nepalesa)

Nepalese Fisc	cal Year	. 46/47 .	. 47/48	. 48/49	. 49/50.	PROJECT
		. 1989/90 .	. 1990/91	. 1991/92	. 1992/93 .	TOTAL
Budget		. YEAR .	. YEAR	. YEAR	. 1 ST .	TODATE
leading	Details .	. TOTAL	. TOTAL	. TOTAL	.TRIMESTOR .	
1	Salary	0.00	165,955.75	. 235,528.20	. 57,576.00 .	459,059.95
2	Allowance .	0.00	0.00			·
。 3	. TA/DA	4,521.20	123,671.30	. 29,879.75	. 10,811.05 .	
4.1	· Service Fees	0.00	23,301.12		. 0.00 .	
4.2	Service Other	. 10,000.00	49,958.50	61,614.50	. 500.00 .	•
5	Rent , .	0.00	28,550.00	. 33,600.00	. 5,600.00 .	•
6	Repair/maintenance.	0.00	24,449.00	9,270.00	0.00 .	-
7.1	Office Equipment .	. 19,999.50	74,911.50	. 90,201.00	. 1,100.00 .	186,212.00
7.1.2	Printing	0.00	0.00	0.00	4,000.00 .	4,000.00
7.2	News Paper	. 1,330.00	8,946.72	1,848.00	. 0.00 .	12,124.72
7.3.1	Vehicle Fuel	. 88.30	. 21,072.55	. 72,397.47	. 719.20 .	_
7.3.2	Fuel Others	. 107.00	1,997.00	4,284.00	. 0.00 .	6,388.00
7.5.1	Office Other Goods	. 19,992.77	74,994.00	. 85,325.00	0.00 .	
9	Cntingencies	. 597.00	3,280.00	5,205.00	. 587.00 .	•
10.1	Furni _c ure	. 99,516.50	99,985.00	60,000.00	. 0.00 .	259,501.50
10.2	Vehićhe	6,000.00	4,980.00	19,970.00	. 0.00 .	•
10.3	Machine tools	. 49,786.00	49,888.00			-
11.1	Land Procurement	0.00	. 200,000.00	0.00	. 0.00 .	•
12.1	House Const+Rehab	. 0.00				0.00
12.2	Other Construction	. 0.00	5,045,458.58	. 3,980,327.45	. 2,400.00 .	9,028,186.03
	Grand Total	. 211,938.27	6,001,399.02	4,968,324.23	. 84,093.25 .	11,265,754.77

to 16 November 1992, Appa