## **CHAPTER IV: WORKS EXPENDITURE**

## **SECTION 'A' – REVIEWS**

## WATER RESOURCES DEPARTMENT

## 4.1 NABARD Assisted Major and Medium Irrigation Projects

#### Highlights

Completion of irrigation projects within the targeted time requires proper initial investigation, planning, effective execution and financial discipline including proper co-ordination and monitoring. There was all round nonadherence to these principles by the departmental officers and also by Government in the execution of NABARD assisted major and medium irrigation projects. This led to largescale irregularities, huge wasteful expenditure on works and purchases, avoidable extra cost, unintended benefit to contractors and unwarranted delay in execution of works. Consequently, no benefit flowed though Rs.537.54 crore was spent on six projects during thirty years. The monitoring committees paid no attention to the need of timely completion of projects and prevention of wasteful expenditure.

Projects started during 1971 to 1979 were yet to be completed though there was no lack of funds. Cost escalation in the projects since these were posed to NABARD in 1995-96 ranged from 99 to 380 per cent and the excess expenditure reduced the Benefit Cost Ratio to less than the minimum of 1.5 prescribed for irrigation projects.

(Paragraph 4.1.4.1)

In most of the projects, crucial components have not been executed and as a result, Rs.494.06 crore spent on five projects did not result in any irrigation in thirty years.

(Paragraph 4.1.4.2)

Increase made by the Chief Engineers in the height of the dam in Bennithora and Lower Mullamari Projects after construction of the embankments resulted in avoidable excess works causing wasteful expenditure of Rs.0.93 crore.

(Paragraph 4.1.5.1(b)

Direct entrustment of work of spillway in Chulkinala and Maskinala Projects to Karnataka State Construction Corporation Limited (KSCC) without inviting tenders resulted in extra expenditure of Rs.2.90 crore. {Paragraph 4.1.5.1 (c)} Various lapses and delays by the Department resulted in extension of the periods of contracts and payment of enhanced rates to the contractors resulted in an extra expenditure of Rs.7.18 crore.

{Paragraph 4.1.5.1 (d)}

Improper planning and defective execution of canals resulted in extensive damages to canals and Rs.5.54 crore was to be spent on their restoration. (Paragraph 4.1.6)

Improper decision of the Chief Engineer to shift only a portion of one fully affected village of Chulkinala Project and later deciding to shift the entire village resulted in extra expenditure of Rs.88.23 lakh due to higher compensation and rendered the expenditure of Rs.2.71 crore on the Rehabilitation Centre unfruitful.

(Paragraph 4.1.7)

MS Gates worth Rs.71 lakh transferred from Bennithora Project (BTP) to Lower Mullamari Project (LMP) was not accounted for in the accounts of the Sub-divisional Officer of LMP. {Paragraph 4.1.8.2 (d)}

Superintending Engineer of Votehole Project decided to use higher grade of concrete for lining works causing wasteful expenditure of Rs.1.04 crore.

(Paragraph 4.1.8.3)

The Divisional Officers of four projects unnecessarily purchased MS gates and other materials in violation of all rules and procedures and without routing them through SPD resulting in wasteful expenditure of Rs.12.94 crore and excess payment of Rs.8.05 crore.

(Paragraph 4.1.10)

Chief Engineers (CE), Superintending Engineers (SE) of concerned projects and CE/SE, Monitoring and Evaluation, Bangalore did not effectively supervise, monitor and evaluate the projects and on the other hand, facilitated unnecessary purchase of huge material and financial indiscipline. The High level Monitoring Committee engaged themselves in financing arrangements though the projects floundered and public funds were wasted.

(Paragraph 4.1.11)

## 4.1.1 Introduction

Irrigation plays a very important role in economic development by increasing and optimising the agricultural yield. With a view to augment the available water of small tributaries for irrigation, Government of Karnataka approved the following irrigation projects between 1971 and 1979:

Sl No.	Project	Year of commencement	Original estimated cost (Rs in crore)	Command area in hectares	District of command
1	Votehole (VHP)	1971	2.05	7487	Hassan
2	Chulkinala (CNP)	1976	3.86	4047	Bidar
3	Maskinala (MNP)	1976	3.11	3001	Raichur
4	Bennithora (BTP)	1976	12.27	20234	Gulbarga
5	Amarja	1978	5.70	8903	-do-
6	Lower Mullamari (LMP)	1979	3.70	8100	-do-

Initially, only labour component of these works were taken up as famine relief works, since these projects were located in scarcity affected areas. However, adequate funds were not released for speedy completion, which delayed the execution of these projects and resulted in huge escalation in the cost. Even after incurring an expenditure of Rs.171.66 crore as of March 1995, only a part of projects could be completed by 1995-96. For early completion of the projects, assistance from the National Bank for Agriculture and Rural Development (NABARD) was obtained in 1995-96 as loan under the Rural Infrastructure Development Fund (RIDF). The project-wise details are as follows:

						(Rupees	in crore)
Name of the Project	Votehole	Lower Mullamari	Amarja	Chulkinala	Maskinala	Bennithora	Total
Expenditure up to posing to NABARD as of 1995-96	26.73	34.40	32.40	18.60	6.58	52.95	171.66
Revised cost while posing to NABARD as of 1995-96	32.00	64.40	45.68	31.06	22.52	152.83	348.49
Balance cost to be incurred as of 1995-96	5.27	36.45	23.40	16.80	17.46	77.33	176.71
NABARD share	5.27	32.20	22.84	15.53	11.26	50.00	137.10
Government share	NIL	4.25	0.56	1.27	6.20	27.33	39.61
Agreed years of assistance	1995-97	1995-98	1995-98	1995-98	1995-98	1996-99	-

NABARD sanctioned loans for these projects based on the projections made by the Department, with the condition that the Government should release its share of expenditure within the stipulated period of completion.

Though, as per terms and conditions of NABARD assistance, all the projects were to be completed by March 1999, only two projects (Votehole and Chulkinala) have been completed (November 2001).

#### 4.1.2 Organisational set-up

The Water Resources Department functions under the over all control of the Secretary, Water Resources Department in the Government of Karnataka. The six projects were managed under three Zones, each under the control of one Chief Engineer. Each zone had one Circle Office headed by a Superintending Engineer. There were seven Divisional Offices each headed by an Executive Engineer. The Chief Engineer, Monitoring and Evaluation, Bangalore, was the coordinating officer between the Department and NABARD.

#### 4.1.3 Audit Coverage

The implementation of these projects were reviewed in Audit during January to May 2001 covering a period of 5 years from 1996-2001 with a view to:

Assessing efficiency and economy in the execution of these projects in compliance with the conditions laid down by NABARD.

Examining the deficiencies in the system and its adverse effects on the completion of projects and their economic viability including acquisition of materials of stores.

Expenditure relating to all the six projects was test checked in audit. The findings of the review are discussed below:

#### 4.1.4.1 Escalation in cost of project

All these projects started during 1971 to 1979 under famine relief works are still under execution. Though Government released adequate funds as shown in the table below, the projects (except Votehole and Chulkinala) were still not complete.

							(Rs. in crore)
Year	Grant/Expenditure	Votehole	LMP	Amarja	CNP	MNP	Bennithora
	Budget Grant	2.90	6.12	5.31	1.65	2.69	1.85
1995-96	Expenditure	5.36	9.78	6.62	5.46	1.31	-
	Savings (-) / Excess (+)	(+) 2.46	(+) 3.66	(+) 1.31	(+) 3.81	(-) 1.38	(-) 1.85
	Budget Grant	3.43	28.25	19.99	10.00	9.00	6.50
1996-97	Expenditure	5.12	13.90	13.36	6.93	4.46	11.32
	Savings (-) / Excess (+)	(+) 1.69	(-) 14.35	(-) 6.63	(-) 3.07	(-) 4.54	(+) 4.82
	Budget Grant	1.00	15.00	8.00	6.00	8.00	33.00
1997-98	Expenditure	1.32	17.84	13.22	13.10	5.99	30.51
	Savings (-) / Excess (+)	(+) 0.32	(+) 2.84	(+) 5.22	(+) 7.10	(-) 2.01	(-) 2.49
	Budget Grant	4.99	10.00	10.00	8.00	5.00	50.00
1998-99	Expenditure	2.24	12.36	12.32	9.79	6.38	27.16
	Savings (-) / Excess (+)	(-) 2.75	(+) 2.36	(+) 2.32	(+) 1.79	(+) 1.38	(-) 22.84
	Budget Grant	2.00	6.00	7.00	3.00	3.00	20.00
1999-2000	Expenditure	2.71	13.25	12.59	5.15	7.43	36.66
	Savings (-) / Excess (+)	(+) 0.71	(+) 7.25	(+) 5.59	(+) 2.15	(+) 4.43	(+) 16.66
	Budget Grant	-	9.86	6.58	2.38	5.46	7.00
2000-01	Expenditure	-	8.65	4.28	3.77	4.33	31.21
	Savings (-) / Excess (+)	-	(-) 1.21	(-) 2.30	(+) 1.39	(-) 1.13	(+) 24.21

NABARD reimbursed Rs.144.18 crore till March 2001 as against claims of Rs.226.46 crore preferred for reimbursement till said date.

Requirement of funds incorrectly projected to NABARD A comparison of costs projected before NABARD for these projects during 1995-96 and the actual costs projected in revised estimates (2000-01) indicated increase in cost varying from 99 to 380 per cent within a span of 5 to 6 years, as detailed below:

Sl. No. (1)	Project (2)	Balance cost at the time of posing to NABARD (in 1995-96) (3)	Expenditure after posing to NABARD as on March 2001 (4)	Estimated Balance cost (5)	Total (4+5) (6)	Increase (6-3) (7)	Percentage of increase (8)
1	Votehole	5.27	16.75	8.52	25.27	20.00	380
2	Lower Mullamari	36.45	75.78	4.82	80.60	44.15	121
3	Amarja	23.40	62.39	5.17	67.56	44.16	189
4	Chulkinala	16.80	44.20	2.90	47.10	30.30	180
5	Maskinala	17.46	29.90	4.82	34.72	17.26	99
6	Bennithora	77.33	136.86	31.19	168.05	90.72	117
	Total	176.71	365.88	57.42	423.30	246.59	-

(Rupees in crore)

As a result of such huge increase, Rs.246.59 crore was required additionally for completion of six projects.

The Department attributed (March 2001) the increase in cost to the following:

- (a) escalation during the period of execution.
- (b) higher tender percentage quoted by contractors.
- (c) increase in quantity of work in respect of various components.
- (d) increase in Cross Drainage (CD) works.

However, these factors were not considered while projecting the requirement of funds to NABARD. Many items of work have increased enormously (up to 369 per cent in some cases) in some of the projects since these were posed to NABARD as detailed below:

	Lower N	Aullamari	Am	Amarja		tinala	Bennithora	
Dam and appurtenant works	Quantity posed	Revised quantity	Quantity posed	Revised quantity	Quantity posed	Revised quantity	Quantity posed	Revised quantity
EWE	-	-	-	-	76,600	1,04,324	16,32,220	19,66,951
Embankment	8,91,508	13,07,778	1,60,121	4,94,254	1,09,500	5,13,936	6,96,132	10,28,268
Concrete	-	-	-	-	57,000	72,700	9,97,045	11,84,424
Canals and lining	-	-	-	-	5 kms	10 kms	-	-

Thus, quantum of execution of various items of work was not assessed properly before finalising the requirement of funds at the time of preparation of estimates and also while posing the balance work to NABARD.

The expenditure of Rs.537.54 crore incurred on these projects so far remained largely unfruitful. Due to such excessive expenditure, the benefit cost ratio of these projects was below 1.5, which is the minimum for such projects and for 2 projects (BTP and LMP) it was even less than 1, which made these projects financially non-viable.

#### 4.1.4.2 Delay in completion

Though these projects were targeted for completion by 1998-99, several components of these projects necessary for commissioning and providing irrigation facilities to the command areas were yet to be completed as shown in Appendix -4.1.

A review of Appendix-4.1 shows that field irrigation channels (FIC) essential for providing water to the command area had not been executed in these projects except for the Votehole project (VHP), where these had been partially executed. In respect of four projects<sup>1</sup>, the Command Area Development Authority (CADA), which is responsible for execution of command area development and formation of FICs, had not executed these works. This was due to the delay in formation of the Office of the Project Director, CADA for IP Zone, Gulbarga, which was formally opened only in January 2001. In respect of Maskinala project, works were yet to be identified and executed. In respect of VHP, a large part of the command area was at a higher level with undulations and hence the potential has not been achieved. This indicated inadequate and improper investigation in the assessment of the command area. As a result, except for VHP where Rs.43.48 crore had been spent and irrigation potential of 2300 hectares had been created against the target of 7487 hectares, investment of Rs.494.06 crore in five projects did not result in any irrigation.

Audit scrutiny revealed that cost escalation was also attributable to improper planning in execution of dam, canal, rehabilitation centres, acquisition of land for the projects and indiscriminate purchase of materials by Divisional Officers with the knowledge of Controlling Officers. Consequently, the delay in completion of the project can be broadly attributed to the following:

Delay in identifying the priority works,

Non-synchronisation of works due to improper planning in execution of work,

Non-implementation of contract conditions due to various delays by the Department,

Failure of contractors in timely completion of works and

Delay in formation of CADA, which delayed development of command areas.

# **4.1.5** Irregularities in execution of different components of the projects

Defective initial investigation, inept decisions, irregular execution and unwarranted delays resulted in wasteful and avoidable expenditure of Government funds as detailed below:

<sup>1</sup> BTP, Amarja, LMP and CNP

#### 4.1.5.1 Dam and appurtenant works

## (a) Provision of excessive slope leading to wasteful expenditure of Rs.1.72 crore

The slopes of the embankment of the dam are required to be fixed after conducting relevant initial investigations prior to commencement of work so that no alterations are required at a later date. Audit scrutiny revealed that in two schemes, the slopes fixed by the Chief Engineers in the initial stages were revised or proved to be excessive at a later date, resulting in provision of excess thickness of embankment and execution of flatter slopes leading to wasteful expenditure of Rs.1.72 crore as indicated below:

	Slopes Required		Slopes Pr	ovided	Excess	Wasteful		
Project	Down stream	Up stream	Down stream	Up stream	embankment (in cum)	expenditure (Rs. in lakh)		
Bennithora	2:1	2.5:1	2.5 : 1	3:1 & 4 : 1	186460	144.72		
Chulkinala	2:1	2.5:1	2.5:1	3:1	62985	27.20		
	Total							

## (b) Delay in deciding the height of the dams - wasteful and extra expenditure of Rs.93 lakh

Avoidable expenditure due to delay in deciding the height of the dams Before commencement of the dam work of a project, the height of the dam has to be decided based on technical requirements after proper investigation. Audit scrutiny revealed that in respect of BTP and LMP, the Chief Engineers revised the height of the dam, after execution of the embankment. This required stripping of the embankment and refilling for formation of additional height of dam. This also led to burial of the rock toe already executed in respect of BTP and providing excessive berms<sup>2</sup> for LMP although it was not required. Such avoidable excess works led to wasteful and avoidable extra expenditure of Rs.93.00 lakh as indicated below:

Project	Original height in RL mtrs	Revised height in RL mtrs	Year of execution of embankment	Year of revision of height of dam	(Rupees in lakh) Extra/wasteful expenditure
Bennithora	439.8	441.7	1980-1999	1992	53.16
LMP	498	494	1973-1985	1986	39.84
				Total	93.00

#### (c) Entrustment of work to Karnataka State Construction Corporation Limited (KSCC) – Extra cost of Rs.2.90 crore

The spillway and end connection works of Chulkinala and Maskinala were directly entrusted to KSCC at 10 per cent premium over the prevailing Schedule of Rates without limitation of period of execution by Government in January 1989 and November 1989, respectively without inviting tenders. KSCC sublet these works to other contractors at much lower rates. Later, these works were withdrawn (December 1994) from KSCC as per directions of Government and were entrusted (1995-96) to other contractors on tender

<sup>&</sup>lt;sup>2</sup> A horizontal strip or shelf built into an embankment to break the continuity of an otherwise long slope

basis at 1 per cent and 16.27 per cent below the Schedule of Rates of 1995-96 respectively. A comparative analysis of the rates obtained on tender basis and those paid to KSCC revealed that the Government had to incur an extra expenditure of Rs.2.90 crore on these two projects due to direct entrustment of work to KSCC without inviting tenders.

## (d) Departmental delays and lapses – time overrun and cost overrun of Rs.7.18 crore

The work of spillway of Bennithora Project was entrusted (1985) to a private contractor. In respect of Maskinala Project, the work was entrusted (1996) to a private contractor after withdrawing the same from KSCC as per directions of Government (1994). After entrustment of these two works to contractors, various lapses and delays by the Department like handing over of site, issue of blasting materials and delay in deciding designs resulted in extending the period of contract. However, Government enhanced the rates of execution for some portion of work during the extended period. Thus, delays by the Department significantly delayed the completion of the projects and saddled the Government with avoidable extra expenditure of Rs.7.18 crore as shown below:

Name of Project	Component entrusted	Original period of execution as per contract	Extended period	Date of GO revising the rates	Extra expenditure due to revision (Rs. in crore)	Present position
ВТР	Spillway works up to crest level	22 March 1985 to 21 December 1988	Up to June 1997	2 July 1992 and 14 November 1996	4.77	Incomplete
MNP	Spillway works	9 September 1996 to 30 January 1998	Up to December 2000	6 October 1999	2.41	Incomplete
				Total	7.18	

# 4.1.6. Canal – Improper planning in execution leading to wasteful and extra expenditure of Rs.5.54 crore

Wasteful expenditure protective works to canals were not provided

Departmental

delays led to

extra cost

Spillway works of BTP and Amarja Projects were entrusted to various agencies during 1985 and 1995 respectively. Canals of length 35 kms and 46.8 kms respectively in these two projects were completed prior to 1985. The command area and canal distribution systems of these two projects were situated in valleys sloping towards the nalas. This leads to forceful flow of rainwater into the command area thereby damaging the canal. Hence it became necessary to execute certain protective works like catch water drain, protection wall and super passages for draining the rainwater. Scrutiny revealed that these works were not carried out during the execution of the canal. This led to damaging the Service Road (SR), Inspection Path (IP) and also disturbing the Shahabad slab lining, scouring of the canal in various chainages and silting even before water was allowed into the canal. The restoration of these reaches was executed by silt removal, repairs and replacement of Shahabad lining, pocket filling of scoured portions, improvements to SR and IP in damaged reaches and breach filling of flood

damages during 1997-2000 through 624 piecework at a cost of Rs.1.41 crore in respect of Bennithora project and through 628 piecework at a cost of Rs.1.97 crore in respect of Amarja project (1996-99). A further amount of Rs.1.67 crore is required for restoration of the balance 20 kms of Amarja project as per the Project Report.

During excavation of the canal, the excavated material was dumped on either side of the canal without adequate space for the SR and IP. This problem had to be rectified by removing the dumped material and by lowering and leveling the SR and IP during 1996-1999 in Amarja Project at a cost of Rs.37.30 lakh through 142 piecework and during 1997-2000 in Bennithora Project at a cost of Rs.12.40 lakh through 54 piecework.

Improper planning and execution of canals of these projects by the Divisional Officers far in advance or without lining resulted in burdening the Government with avoidable extra expenditure of Rs.5.55 crore.

#### 4.1.7 Delay in rehabilitation of affected families

Rehabilitation of families of the affected villages was an important component of the project and had to be completed in full before water was impounded in the reservoir. Scrutiny revealed that the process of rehabilitation of affected families was yet to be completed in respect of three projects due to:

(i) non-execution of required components of work in the rehabilitation centres,

(ii) non-acquisition of required lands for formation of such centres,

(iii) delay in finalisation of claims of compensation of the affected families.

The projects are nearing completion as of March 2001 and water is to be impounded for irrigation. A review of the position of rehabilitation in different projects (Appendix-4.2) revealed that 1516 families of BTP, 198 of Amarja Project and 276 of CNP were yet to be shifted to the Rehabilitation Centers (RCs) out of 2128, 408 and 332 families affected, respectively. Out of 16 RCs to be completed in respect of 3 projects (BTP, Amarja and CNP), 13 RCs had been completed and the remaining 3 were under progress. Though 13 RCs have been completed, 4 had been occupied fully, 6 had been partially occupied and in respect of the remaining 3, no family had been shifted. Irrigation potential of these projects are adversely affected till all the families are shifted from the affected villages. Speedy settlement of villages to the RCs was the immediate requirement of these projects.

In respect of Chulkinala Project, out of 2 RCs, one was completed and villagers had been shifted. In respect of the other village (Dhannur) (K) where 276 families were affected by the project, the RC constructed under the instructions (March 1997) of the Chief Engineer, IP Zone was capable of accommodating only 112 families affected by submergence. As the remaining families were also affected by the waterlogging, it was proposed to shift all the

families duly compensating them for their properties. The centre has now to be remodeled to accommodate the remaining 164 families. None of the 112 families had shifted to the rehabilitation centre and hence, the expenditure of Rs.2.71 crore incurred on the centre remained unproductive till today. The delay in shifting the affected families resulted in partial storage of water in the reservoir and also avoidable extra expenditure of Rs.88.23 lakh due to higher compensation payable at current rates.

#### 4.1.8 Other important points

## 4.1.8.1 Maskinala Project – huge extra expenditure due to defects in the cut off

The cut off below the embankment is executed in irrigation projects to (a) arrest seepage or movement of water below the embankment from upstream to downstream for safety of the dam and to avoid loss of stored water. The embankment of the project was completed up to Top Bund Level (TBL) on either flank of the spillway by 1990. The presence of sandy gravelly strata just below the cut off was noticed on the right side of the spillway during excavation for foundation (1996). The matter was referred to the Central Water & Power Research Station (CWPRS), Pune (1996) and the report of CWPRS (1999) indicated that the cut off had not intercepted completely the pervious strata and was found to be resting on 2 mtrs thick sandy gravelly strata and not on impervious rock as required and hence it did not function as a positive cut off. As per technical requirement, the cut off has to be extended up to half the height of the dam. This had not been executed up to the required depth in any of the reaches as observed from the bore hole results provided by CWPRS indicating inadequate supervision and improper direction/guidance from the departmental officers (Section Officer/ AEE/ EE) at the time of the execution of the cut off. Further, the graph of longitudinal soil profile along the axis of the dam prepared by CWPRS, Pune indicates the execution of cut off below the ordinary soil and reaching the gravelly and sandy strata from Ch 175 mtrs to 720 mtrs, thereby proving that the Department was well aware of the presence of such strata during execution of cut off. However, this aspect was ignored and the cut off was completed. This resulted in excessive seepage below the dam, thereby endangering the dam. As per the guidance of CWPRS, a flexible diaphragm wall estimated at Rs.5.30 crore is to be constructed on the upstream side of the dam and a proposal for this has been approved (2000) by the Technical Advisory Committee. It is to be executed before impounding water in the reservoir, since it is essential to arrest seepage of water. Lack of care by the Divisional Officer resulted in unwarranted delay and risk to the safety of the dam with a cost impact of Rs.5.30 crore.

(b) Providing a proper flood gap during execution of spillway is essential for safety of ongoing work and of the embankment already constructed. The Divisional Officer had raised the embankment up to Top Bund Level (TBL) on either flank of the spillway without allowing the required flood gap. Since there was no space for diverting *nala* for excavation of foundation for the

Extra expenditure and risk to the safety of the dam due to nonexecution of cut-off trench below embankment spillway, only the left side was tackled by diverting the *nala* to the right (1990-96) and concrete was also laid on the left side before excavating the foundation for the right side for want of working space. Audit scrutiny revealed that during right side excavation, controlled blasting at higher rates became necessary since normal blasting operations disturbed the concrete already laid. This resulted in extra expenditure of Rs.21.38 lakh. It was also seen that the gap present between the spillway and embankment already constructed was further reduced after right side spillway was taken up (1996) and this restriction in the area increased the water pressure during floods, thereby scouring large quantities of right side embankment. The topsoil of the remaining portion also proved to be weak and had to be stripped to provide proper continuation for laying new embankment. The extra expenditure amounted to Rs.1.33 crore. The total avoidable expenditure worked out to Rs.1.54 crore.

(c) The rates quoted by the contractor for the works included formation of diversion wall and coffer dam wherever necessary for proper execution of work. However, the contractor was given an extra contractual benefit of Rs.6 lakh towards formation of diversion wall, contrary to the terms of contract.

(d) The work of right side sluice and portion of earthern embankment were entrusted (1981) to an agency at a cost of Rs.21.11 lakh. The contractor abandoned (1983) the work after executing portion of work valued at Rs.9.87 lakh and the contract was rescinded (1986) at the risk and cost of the contractor. Audit scrutiny revealed that the concrete work of sluice was defective. Repairs to the sluice and balance work of embankment were not executed immediately after rescinding the contractor. The same was executed (1996-98) after a lapse of ten years at a cost of Rs.87.24 lakh. The extra expenditure of Rs.76 lakh could not be recovered from the contractor due to inordinate delay in executing the balance/defective work. The contractor was reported to be no longer alive (1997).

## 4.1.8.2 Lower Mullamari Project

(a) The estimated cost of spillway was Rs.4.79 crore, which required Government approval for sanction of estimate and design. Audit scrutiny revealed that the estimate of the spillway was bifurcated into two estimates *viz.*, up to crest level (Rs.2.30 crore) and above crest level (Rs.2.49 crore) so as to fall within the financial powers of CE. This led to invitation of tenders separately with a gap of 8 months (July 1995 and March 1996). Though both portions were entrusted to the same agency, the rates received against tender for March 1996 were higher for the same items (M-10 and M-15 concrete) when compared to July 1995 tenders and extra expenditure amounted to Rs.30.99 lakh. The work was under progress (March 2001).

(b) An aqueduct under execution at km 41 of the canal of the project was awarded (November 1996) on tender basis for Rs.1.05 crore. The length of the trough was 375 mtrs as per sanctioned estimate. The length was reduced by CE on the request (1999) of the contractor, which increased the embankment quantities and decreased the concrete work. It was noticed in

Extra cost due to delay in finalisation of designs Audit that CE approved the design of aqueduct in May 1997 after award of work. The increase in quantity relating to embankment portion was paid at higher rates. Thus, changing the design of the aqueduct by reducing the difficult concrete portion and increasing the easy embankment, without any advantage to Government in technical terms only to facilitate the contractor, resulted in avoidable extra cost of Rs.41.12 lakh.

## (c) Loss of Rs.1.04 crore due to non-accounting and non-utilisation of excavated hard rock

During excavation for canals and foundation of dam, 171301 cum of hard rock was excavated (1990-2000) in respect of 28 works. The same was neither accounted for in the MAS accounts by the Section Officers nor utilised on works of dam and canal by the Divisional Officer. Instead of using the excavated material, the metal required for concrete and riprap<sup>3</sup> works was reportedly obtained by the contractors from far off quarries and lead charges were paid accordingly. The total loss due to non-utilisation of this excavated hard rock in addition to payment of lead charges amounted to Rs.1.04 crore at Rs.70.33 per cum for 98047 cum and Rs.71 per cum for 17326 cum used in concrete and at Rs.40 per cum for 55928 cum used in riprap. As non-use of excavated material is not free from doubt, the matter calls for investigation.

Due to negligence of the Section Officers, excess excavation beyond the approved sections were allowed in hard rock reaches and the expenditure of Rs.49.94 lakh incurred on refilling the same. Cost of such works, though recoverable from the original contractor was not recovered from him in violation of the contractual provisions, resulting in loss of Rs.49.94 lakh.

#### (d) Non accounting of gates valued at Rs.71 lakh

During January 2000, 400 gates of size 450 x 600 mm and 400 gates of size 350 x 350 mm valued at Rs.71 lakh were transferred from Bennithora Project (IPC Division No.4, Hebbal) to LMP. Scrutiny revealed that these gates were not accounted for in the accounts of the receiving division/sub-division. These transactions were made by LMP Division without the approval of higher authorities. The originating division had not raised claims for settlement in respect of the above transaction (March 2001), though the same was to be raised within ten days after transfer of material. No action had been taken to investigate the matter and fix responsibility.

## 4.1.8.3 Votehole Project

## Use of higher-grade concrete – wasteful expenditure of Rs.1.04 crore

As per the estimates of lining works approved and executed from 1996-97 onwards, M-100 concrete was approved for lining of canal of small discharges of the Votehole Project. However, during 1995-96 the Superintending

Doubtful nonutilisation of excavated hard rock

Non-accountal

valued Rs 71

of gates

lakh

<sup>&</sup>lt;sup>3</sup> Broken stones (usually without dressing) placed on earth surfaces for their protection against the action of water or weather.

Engineer accorded approval for use of M-150 concrete requiring higher percentage of cement and accordingly the divisional officers executed the lining works in respect of 78 reaches of canal involving 26918 cum of concrete. Wasteful expenditure on such unnecessary high grade concrete amounted to Rs.1.04 crore at the differential cost of Rs.388 per cum between M-150 and M-100 concrete.

## 4.1.9 Cement variation clause

Conditions of contract provide for a cement variation clause stipulating payment/recovery of cost of cement excess/less required when compared to those indicated in the tender document. Scrutiny revealed that the design mix fixed for works for two projects indicated lower requirement of cement than that indicated in the tender document. But the differential cost of cement less consumed by the contractors was not recovered resulting in loss of Rs.32.78 lakh as detailed below:

Project	No. of contractors	Year of execution	Quantity of concrete in cum	Cement required as per design mix in bags	Cement shown as used in bags	Excess cement in number of bags	Value of excess consumption of cement (Rs in lakh)
Votehole	130	1996-2000	38189	194472	206477	12005	16.33
Amarja	2	1994-2000	194105	407063	433671	26608	16.45
		Total	232294	601535	640148	38613	32.78

Scrutiny revealed that the design mix was not changed in respect of various works of two projects from 1995-96 onwards though the grade of cement was changed from 33 to 43, the consumption of which is less than the 33 grade. Cement was issued with reference to use of 33 grade resulting in excess use of 28414 bags of cement, leading to wasteful expenditure of Rs.33.42 lakh as follows:

					(Rupees in lakh)
Name of the project	Year	No. of bags required	No. of bags	Excess consumed	Value of cement
	i cai	No. of bags required	consumed	Excess consumed	excess consumed
Amarja	1995-2000	120922	134358	13436	15.45
LMP	1995-2000	232329	247307	14978	17.97
	Total	353251	381665	28414	33.42

#### **4.1.10 Injudicious purchase of materials**

Violation of codal provisions resulted in financial irregularities Codal provisions stipulate that the requirement of materials has to be assessed for each quarter and that materials should not be purchased in advance or in excess of requirement. The type, size and specification of materials including designs and drawings should be decided as per technical requirement and as approved by the competent authority. Circle level purchase committees were to be formed as per Government instructions (1983) and the divisional requirements were to be placed before the committee to assess and regulate the need for purchases. Open tenders were required to be invited for huge purchases with wide publicity so as to obtain competitive rates after ascertaining from SPD or Karnataka Small Industries Marketing Corporation Limited (KSMIC) that they are not in a position to provide rate contract for material required. However, no Circle Level Purchase Committee were formed till 1999.

Though these purchases required Government approval as per delegation of financial powers, the purchases were conveniently split up so as to fall within the powers of the EE/SE/CE thereby not only violating financial powers but also keeping such huge purchases out of Government notice.

Serious irregularities in purchase –total value of irregularities – Rs.21 crore Scrutiny revealed that the Divisional Officers at Bennithora, Amarja, Chulkinala and Lower Mullamari Project purchased different types of materials during 1997-2000 in huge quantities through splitting purchase values, disregarding the prescribed procedure and thus committing serious financial irregularities and wasteful expenditure of Rs.7.62 crore, excess payment and extra cost of Rs.8.05 crore and locking up of Rs.5.32 crore as detailed below. The matter calls for investigation to fix accountability for such huge loss and serious breach of financial rules.

## (i) Excess purchase of MS Gates - Rs.6.20 crore

As per the Irrigation Manual, one outlet should cover a minimum area of 17.5 hectares of land at a minimum of 0.010 cumec discharge capacity for allowing water through Field Irrigation Channels (FICs). Audit scrutiny revealed that 4 Divisional Officers with a jurisdiction over three projects purchased 12187 gates during 1997-2000 while only 2032 gates were required. Unnecessary purchase of 10155 gates led to wasteful expenditure of Rs.6.20 crore as indicated below:

Sl No	Name of the Project	No. of divisions	Command areas in hectares	Gates required		Gates Purchased		Excess gates purchased		Cost of excess gates (Rs. in lakh)	
		neetares	DG	OG	DG	OG	DG	OG	DG	OG	
1	Bennithora	2	20,234	78	1158	2502	5268	2424	4110	363.36	103.42
2	Amarja	1	8,903	-	508	-	1798	-	1290	-	31.62
3	Chulkinala	1	4,047	56	232	509	2110	453	1878	67.90	53.68
	Total	4	33,184	134	1898	3011	9176	2877	7278	431.26	188.72

**NOTE:** DG – Diversion Gates; OG – Outlet Gates.

These gates had not been utilised during the last 3–4 years since the FICs had not been executed (March 2001).

## (ii) Unnecessary purchase of materials – Rs.1.42 crore

Purchase of materials not required for any of the works Micro polythene sheets, sponge rubber, flooring carpet, water proof compound and powder were purchased by three Divisional Officers (1997-2000) though these were not required either as per technical sanction or as per specifications of the sanctioned estimates of different components of work. The wasteful expenditure on such unwarranted purchases amounted to Rs.1.42 crore in respect of three projects as detailed below:

Sl. No	Materials purchased during 1997 to 2000	Name of the Project	Quantity	Cost (Rs. in lakh)
1	Water proof compound	BTP	33636 kg	41.61
2	Sponge Rubber	BTP (2 divisions)	9268 mtrs	49.59
2	sponge Rubber	CNP	2744 mtrs	14.68
3	Micropolythene sheets	BTP (2 divisions)	18110 mtrs	14.49
5	Micropolymene sneets	CNP	9180 mtrs	7.34
4	Flooring carpet	BTP	3928 sqm	13.84
			Total	141.55

These materials were not required in the projects for the following reasons:

Water proofing is required only in respect of works where water seepage affects the structure or its functioning. In Irrigation projects, the seepage is essential in the spillway. In respect of canal and CD works, seepage does not affect the structure or its functioning. Hence, waterproofing compound was not required.

Sponge rubber, although used in some CD works, was not provided for in any of the sanctioned estimates.

The Research wing of the Government (KERS), after detailed investigation, banned (1995) the use of Micropolythene sheets in canal lining and hence these sheets were of no utility.

#### (iii) Excess payment / extra cost on purchase of material - Rs.8.05 crore

Four Divisional Officers of three projects totally disregarded the prescribed procedure for purchase (1997-2000). They did not refer their requirements of materials to the SPD for availing of the rate contract and also did not invite open tender to ensure wide publicity before purchasing the materials. They purchased materials at locally quoted rates, which were exorbitant compared to SPD rate contracts or open market rates leading to excess payment of Rs.8.05 crore as detailed in Appendix – 4.3. The materials were purchased at a cost of Rs.10.47 crore and the cost at the SPD / market rate amounted to Rs.2.42 crore.

#### (iv) Purchase of materials far in advance of requirement - Rs.5.32 crore

Five Divisional Officers of four projects purchased various materials during 1997-2000 although these were not required for immediate use. The materials were lying idle for 1 to 4 years and thus Rs.5.32 crore were locked up as detailed in Appendix - 4.4.

#### (v) Role of Controlling Officers in injudicious purchases

CEs/SEs were responsible for monitoring the purchase activities of Divisions under their control and ensuring that the Divisions follow proper procedure in procuring stores for immediate requirements at appropriate rates. They were also responsible for formation of zonal level / circle level purchase committees and for proper functioning of the committees so as to exercise strict control over the physical and financial aspects of purchase proposals of the Divisions. They were also required to sanction reserve stock limits for each Division at

Materials purchased at exorbitant ratesextra cost: Rs.8.05 crore the beginning of each year according to the activities of the Divisions to restrain injudicious/ unwarranted purchases. The release of funds towards purchases was required to be monitored and controlled.

Audit scrutiny revealed that CEs/SEs did not exercise these controls, thereby allowing injudicious purchase of huge quantity of unnecessary materials and facilitated such purchases by release of funds for clearance of purchase pending bills till Government restrained (2000) such payments. They also abetted such irregularities by sanctioning many purchases without following the prescribed procedure, violating their financial powers.

In view of such serious and large-scale financial irregularities and wastage of public funds, the matter requires enquiry by the Vigilance Department.

## **4.1.11** Total lack of monitoring and evaluation

Monitoring Committee did not review progress of these projects at any point of time during 1996-2001. The High Power Committee was constituted during January 1996 with the Development Commissioner as Chairman and 7 other Members consisting of Principal Secretary to Government, Finance Department; Secretaries to Government, Irrigation Department, Agriculture Department and Forest Department, Director of Agriculture, Chief General Manager, NABARD and Chief Engineer (Monitoring and Evaluation). This Committee held 11 meetings up to March 2001 but discussed mainly financial arrangement, revision of estimates and extension of time with NABARD. They did not look into technical deficiencies and poor progress in the execution of these projects and lack of financial discipline and control. They paid little attention to issues of timely completion of projects or suggest measures for that purpose as per the terms and conditions of NABARD. Consequently, the projects meandered with serious financial irregularities at various levels, delay in execution and wastage of public funds.

The Chief Engineer, Monitoring and Evaluation, Bangalore, who was the Coordination Officer for these projects neither evaluated proper utilisation of funds nor monitored the projects.

The Water Users' Association to be formed to involve farmers in irrigation management as per terms of the loan had not been formed in any of these projects as of March 2001, except in VHP, since none of these projects provided irrigation to its command areas till date. For proper success of these projects, the formation and functioning of these associations was essential since effective water management could be ensured only with the involvement of farmers.

The SEs of the concerned circles responsible for proper execution of projects, were required to co-ordinate the progress of the projects. They evidently did not do so and instead facilitated unwarranted items of work and unnecessary purchase of huge quantities of materials and thus effectively contributed to

Ineffective monitoring facilitated serious irregularities diversion of funds, wasteful expenditure and non-synchronisation of different components of the projects.

The Chief Engineer of the projects allotted funds without linking the progress of works and thus encouraged financial in-discipline and brazen waste of public funds.

Thus, the senior management and supervisory officers mismanaged the projects and failed to create the targeted potential, although adequate funds were provided to them by Government. There is little evidence to suggest that even now adequate action is under way to complete the projects and control costs.

**4.1.12** The matter was referred to the Secretary to Government in August 2001. However, no reply had been received (September 2001).

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## WATER RESOURCES DEPARTMENT

#### 4.2 Working of Water Resources Department

#### Highlights

The Water Resources Department is entrusted with execution of major and medium irrigation projects in the State of Karnataka. The Department has serious weakness in the financial and programme management and control areas. Budgeting and cash management through the letter of credit system was ineffective. Large number of major and medium projects were taken up without adequate financial support or monitoring. These projects are languishing for several years while huge investments remained unproductive. Similarly, lift irrigation schemes taken up at substantial cost are also lying incomplete in large numbers. Financial indiscipline, irregularities in execution of the works, unsatisfactory human resource management, inefficiency and wastage in stores purchase and management of store]s affected the working of the Department. Though 32 major and 77 medium irrigation projects were taken up to create 29.62 lakh hectares of irrigation potential, only 59 per cent of the targeted irrigation potential could be created till now.

As against the planned irrigation potential of 29.62 lakh hectares, the actual irrigation potential created was 17.42 lakh hectares (59 per cent) as at the end of March 2000.

(Paragraph 4.2.1 & 4.2.5.1)

There was excess expenditure ranging from Rs 1.65 crore to Rs.59.57 crore under "2701-Non-Plan" during 1996-2001. Letters of credit issued for approved works were diverted for other ongoing works, as the approved works were not taken up.

(Paragraph 4.2.4.1)

Budget provision made for new schemes during 2000-2001 did not include modernisation of Vijayanagar channels, for which Letter of Credit (LoC) was released and an expenditure of Rs.1.40 crore was incurred.

(Paragraph 4.2.4.2(iii))

As at the end of March 2001, bills to an extent of Rs.131.30 crore remained unpaid to various contractors and suppliers.

(Paragraph 4.2.4.3)

Expenditure amounting to Rs.710.70 crore were incurred in excess of the original sanctioned estimates, contrary to the instructions issued by Government.

(Paragraph 4.2.4.4(a)(i)

Out of the letter of credit issued by the Finance Department, Secretary, Water Resources Department and Chief Engineers reserved 3 per cent and 2 per cent respectively for urgent payments to contractors. Chief Engineers further reserved a part of the letter of credit as quota of Members of Parliament and the District Minister for payments to contractors of their choice. This system was vulnerable to misuse and would encourage malpractice.

(Paragraph 4.2.4.4(b)

**Rs.1.30** crore was released to Ambligola Project through LoC, even though no provision was made in the Budget grant.

(Paragraph 4.2.4.4(d)

Three out of thirteen controlling officers did not reconcile the expenditure incurred by the Divisional Officers under their control for 4 to 12 months during 1999-2001.

(Paragraph 4.2.4.4(g)

Taking up of new projects for execution when the old projects were lingering resulted in distribution of the available resources thinly on too many projects. This led to delay in completion of projects, escalation in cost and postponement of benefits.

(Paragraph 4.2.5.1)

The construction of pick up dam across Varahi River was not taken up till date, despite expenditure of Rs. 7.64 crore on survey and other works. (Paragraph 4.2.5.2(ii)

Ten on-going Lift Irrigation Schemes taken up between 1987 and 1997 by the Department to create irrigation potential of 78701 acres, remain incomplete even after incurring an expenditure of Rs.67.69 crore. Delay in completion of these schemes was up to 13 years in some cases.

(Paragraph 4.2.5.3(i)

Improper planning led to overlapping of command area by two projects and an outlay of Rs.1.38 crore incurred up to December 1994 remained unfruitful.

(Paragraph 4.2.5.3(ii)

Shortfall in collection of water rate of Rs.81.03 crore rendered the working of eight irrigation projects uneconomical.

(Paragraph 4.2.5.3(iii) (a)

Water charges valued at Rs.32.29 crore for the period from 1975 to 2001 due from ten industries/municipal bodies were not recovered by the Department.

(Paragraph 4.2.5.3(iii) (b)

Non-stacking of 549872 cum of excavated hard rock valued Rs.4.05 crore in three divisions resulted in loss of revenue to Government.

(Paragraph 4.2.6 (iii) (a)

Rs.8.30 crore being pro-rata expenditure incurred on Rajolibanda diversion scheme by the Government of Karnataka between 1956 and 1997 remained unrecovered from Government of Andhra Pradesh.

(Paragraph 4.2.6 (vi)

In Hemavathy Project Zone, 943 persons were working on supernumerary non-technical cadre as against the requirement of 399. The Chief Engineer did not take action for transferring the surplus staff to whom pay and allowances of Rs.4.87 crore were paid during 1998-2001. (Paragraph 4.2.8(iv)

#### 4.2.1 Introduction

The geographical area of Karnataka extends to 190.50 lakh hectares (ha). The cultivable land in the State is 138.92 lakh ha out of which, irrigable land is 55 lakh ha comprising of 35 lakh ha under major and medium irrigation projects and 20 lakh ha under minor irrigation projects.

There are Seven River Systems in the State with an estimated average annual yield of 3438 thousand million cubic feet (tmc). According to the Master Plan prepared by the Water Resources Department, the utilisation of water has been estimated at 1690.30 tmc. The Department planned to utilise 1036 tmc of water during 1999-2000, against which the actual utilisation was only 654 tmc (63 per cent).

The duties of the Water Resources Department include survey, investigation, estimation, construction and maintenance of projects, water management, prevention of irrigation offences/unauthorised cultivation and collection of statistics.

Irrigation plays a significant role in increasing agricultural yield from the land. To increase the irrigation potential, various irrigation projects were taken up by the Water Resources Department. The project work involves construction of Dams, Lift Irrigation Schemes for inaccessible areas, Canals, Distributaries and Field Channels. The execution of projects involves preparation of project reports, feasibility reports, survey and investigation, preparation of plans and estimates, acquisition of land and provision of funds.

Till March 2000, the Department planned to create irrigation potential of 29.62 lakh ha through 32 major and 77 medium irrigation projects and achieved 17.42 lakh ha through 40 completed and 40 ongoing projects.

#### 4.2.2 Organisational set up

The Irrigation work in Karnataka are entrusted to two Departments viz., Major and Medium Irrigation Department (re-designated as 'Water Resources Department' with effect from April 2001) and Minor Irrigation Department each headed by a Secretary. Under the Water Resources Department there are 6 Zones, 13 Circles and 54 Divisions headed by Chief Engineers (CE), Superintending Engineers (SE) and Executive Engineers (EE) respectively. The Engineer-in-Chief, Water Resources Development Organisation, Bangalore and the Director, Karnataka Engineering Research Station at Krishnarajasagar cater to the needs of initial investigation of projects, research and training for both the Departments.

Apart from the above, the State Government constituted two companies viz., Krishna Bhagya Jala Nigam Limited (KBJNL) in August 1994 and Karnataka Neeravari Nigam Limited (KNNL) in November 1998, to expedite the execution of the Upper Krishna Project and ten other projects under the Krishna Basin.

## 4.2.3 Audit Coverage

Key areas such as financial management, implementation of irrigation projects and works, stores management, manpower utilization etc. of the Water Resources Department i.e., Major & Medium Irrigation, were reviewed during January to May 2001 covering a period of 5 years from 1996 to 2001. Records maintained at the Water Resources Secretariat and the Finance Department along with 30 offices in five zones<sup>1</sup> were scrutinised.

## 4.2.4 Financial Management

## 4.2.4.1 General

The budget of the Water Resources Department is required to be prepared by the Finance Department after obtaining material from the CEs. This provision guarantees the estimates to be accurate and on the basis of the latest estimate of costs. The Review indicated that Finance Department received estimates for provision of funds in time from CEs of various zones, the same were not being considered while making budget proposals.

The provision made was only an ad-hoc increase over the previous years Budget Estimates. Due to such a procedure, the provisions were unrealistic vis-à-vis the funds sought for by the Department as detailed below:

<sup>&</sup>lt;sup>1</sup> Zonal Offices at Gorur, Munirabad, Mysore, Shimoga and Tumkur

		HEAD	OF ACCOUN	ay)	(Rupees in crore)					
			1998-99		1	1999-2000			2000-01	
Sl No.	Name of the Zone	Budget Proposals (BP)	Budget Allotment (BA)	% of BA to BP	Budget Proposals (BP)	Budget Allotment (BA)	% of BA to BP	Budget Proposals (BP)	Budget Allotment (BA)	% of BA to BP
1	Irrigation (South), Mysore	299.65	156.50	52	288.32	153.36	53	313.43	149.30	48
2	Hemavathi Project, Gorur	194.83	71.24	37	259.00	69.85	27	215.65	79.25	37
3	Upper Tunga Project, Shimoga	56.46	6.90	12	119.99	17.42	15	72.25	9.51	13
4	Irrigation Central Zone, Munirabad	231.04	29.70	13	292.94	24.94	9	229.45	20.46	9
5	Hemavathi Canal Zone, Tumkur	258.15	90.00	35	188.62	53.25	28	241.12	55.00	23

HEAD O						T: 2701 (Rev	(Rupees in crore)			
			1998-99			1999-2000			2000-01	
Sl No.	Name of the Zone	Budget Proposals (BP)	Budget Allotment (BA)	% of BA to BP	Budget Proposals (BP)	Budget Allotment (BA)	% of BA to BP	Budget Proposals (BP)	Budget Allotment (BA)	% of BA to BP
1	Irrigation (South), Mysore	17.30	7.90	46	19.64	10.45	53	23.55	10.45	44
2	Hemavathi Project, Gorur	5.25	3.73	71	6.40	4.77	75	7.58	5.03	66
3	Upper Tunga Project, Shimoga	9.37	4.07	43	7.23	4.83	67	15.01	4.87	32
4	Irrigation Central Zone, Munirabad	16.15	6.90	43	17.17	9.02	53	20.46	9.47	46
5	Hemavathi Canal Zone, Tumkur (Teetha Project)	0.30	0.03	10	0.39	0.04	10	0.49	0.04	8

The above table shows that during 1998-99 to 2000-01, the budget provision ranged from 9 per cent to 53 per cent and 8 per cent to 71 per cent of the provision sought for by the Chief Engineers under Major Heads of Account '4701' and '2701' respectively.

The details of Budget provision and expenditure during 1996 to 2001 under Plan and Non-Plan were as follows:

					(	Rupees in crore)	
		4701 – Plan		4701 Non-Plan			
Year	Budget Provision	Expenditure	Excess (+)/ Savings (-)	Budget Provision	Expenditure	Excess (+)/ Savings (-)	
1996-97	466.60	558.15	(+) 91.55	300.00	288.73	(-) 11.27	
1997-98	308.60	495.10	(+) 186.50	305.00	296.23	(-) 8.77	
1998-99	675.62	621.64	(-) 53.98	330.00	288.70	(-) 41.30	
1999-2000	754.21	747.58	(-) 6.63	280.00	249.83	(-) 30.17	
2000-01	966.66	864.62	(-) 102.04	300.00	235.01	(-) 64.99	

		2701 – Plan		2701 Non-Plan			
Year	Budget Provision	Expenditure	Excess (+)/ Savings (-)	Budget Provision	Expenditure	Excess (+)/ Savings (-)	
1996-97	68.42	2.75	(-) 65.67	392.22	416.93	(+) 24.71	
1997-98	161.42	3.61	(-) 157.81	448.43	472.88	(+) 24.45	
1998-99	6.08	6.08		481.21	482.86	(+) 1.65	
1999-2000	11.79	7.59	(-) 4.20	531.01	586.07	(+) 55.06	
2000-01	7.93	6.90	(-) 1.03	584.14	643.71	(+) 59.57	

There was excess expenditure under "2701-Non Plan" every year, which ranged from Rs.1.65 crore to Rs.59.57 crore. LoC released in respect of

approved works were diverted for other on-going works, as the approved works were not taken up. This resulted in excess expenditure on on-going works.

The reasons for excesses / savings in the respective years budget were not furnished by Government.

## 4.2.4.2 Plan Budget

According to the Budget Manual, provisions made under Plan Head of Account should provide funds for State Schemes and Centrally sponsored Schemes. Scrutiny of Planning Department's annual Plan Schemes revealed the following deficiencies:

Though the Planning Commission desired to close four projects viz., Bhadra, Taraka, Tungabhadra Left Bank Canal, Tungabhadra Right Bank High Level Canal by March 2000 as they related to Pre-V Plan period, Rs.10.32 crore was provided for these projects under "4701 – Plan" on the ground that the bills of contractors were pending for payment. The State Government did not, however, make the position of pending bills in respect of these projects known to the Planning Commission. These projects are still considered as ongoing projects. Keeping the Project accounts open enables the Department to debit other expenditure, which would inflate the project cost.

During 2000-01, a provision of Rs.1.27 crore made under 4701-800-other expenditure -12 – State Scheme (Plan) did not include Modernisation of Vijayanagar Channel. However, Rs.1.40 crore was spent towards the said channel during the year. Release of LoC and incurring expenditure thereon was irregular, as the works were not included in the Budget estimates.

## 4.2.4.3 Provision for pending bills not included in Budget

The amount of pending bills of contractors till March 2001 accumulated to Rs.131.30 crore, which amounted to 8.29 per cent and 4.48 per cent of the total provision of the years under 4701 and 2701 respectively. The year-wise break up and the number of bills for the outstanding amount was not furnished by Water Resources Department. The Head-wise details of pending bills was as follows:

			(Rupees in crore)
Head of Account	Plan	Non Plan	Total
2701-Major & Medium Irrigation Projects	-	26.23	26.23
4701- Major & Medium Irrigation Projects	40.43	64.64	105.07
Total	40.43	90.87	131.30

The pendency of bills relates to works and supplies. Department attributed pendency of bills mainly to short release of funds by Finance Department through LoC to the extent of provisions made against the Capital and Revenue Heads of Account. Finance Department did not consider the position of pending bills before deciding the provisions.

Inadequate release of LoC resulted in accumulation of pending bills amounting to Rs.131.30 crore

## 4.2.4.4 Expenditure control systems

The authority administering a grant is responsible for watching the progress of expenditure and keeping it within the sanctioned grant or appropriation. To ensure the effectiveness of control over expenditure, the Chief Engineer is to exercise control through the Controlling Officer subordinate to him. To facilitate control of expenditure, the Departmental Accounts are maintained by Controlling Officers and the progressive actuals month by month are verified with those entered in the books of the Accountant General (Accounts & Entitlement). If the Chief Engineer finds at any stage that the expenditure is progressing too rapidly, he should promptly take such steps, as he may consider necessary to restrict further expenditure so that the sanctioned grant is not exceeded.

A review of records maintained in the test checked Divisions revealed that every month grant and outlay statements indicating the physical and financial progress of works were being sent by the Executive Engineers to the concerned Superintending Engineers who are the controlling authorities and also to Chief Engineers of the Zones. The Controlling Officer was required to check the statements with reference to the details furnished with regard to irregular expenditure and to keep a watch over them. However, the control over expenditure was not effective because the expenditure incurred was in excess of the sanctioned estimates, funds were diverted for unnecessary purchase of stationery articles, expenditure was incurred without budget provision and huge amounts were drawn through self-cheques. Cases where effective control and monitoring of expenditure did not exist are detailed below:

## (a) Sanction to Estimates / Revised Estimates

## (i) Expenditure incurred without sanction of revised estimates

During 1996-2001, the expenditure on 9 projects under the control of CE, Irrigation (south), Mysore and another 13 works in Hemavathy Project persistently exceeded the estimated cost by Rs.710.70 crore (Appendix 4.5) as of March 2001. The excess expenditure ranged from 23 to 388 per cent of the estimated cost. Although revised estimates for these projects/works were not sanctioned, the budget estimates included provision for the excess expenditure year after year. Finance department failed to insist on sanction to revised estimates either at the time of framing the budget estimate or while releasing the LoC. This lapse facilitated widespsread and unauthorised excess expenditure.

#### (ii) Works executed without sanctioned estimates

No work is to be taken up without sanction of detailed estimates and drawings. In Sirwar Division, 23 annual maintenance works of Tungabhadra Left Bank Canal and its distributories costing Rs.58.66 lakh were taken up by the Divisional Officer irregularly during the year 2000-01 without sanctions from the Superintending Engineer. The funds provided for other works were diverted to these works. The Divisional Officer stated (March 2001) that

Expenditure incurred in excess of sanctioned estimates amounted to Rs. 710.70 crore action would be taken to obtain sanctions after the works are completed. Such unauthorised expenditure without sanction from competent authority requires investigation by Government.

## (b) Ineffective Letter of Credit system

Under the system of Letter of Credit (LoC) introduced in November 1972, funds are released by the Finance Department through Secretary, Water Resources Department and Chief Engineers, to the Divisional Officers for payments for the works and supplies. Under this system, budgetary releases are made in monthly instalments by the Finance Department to Chief Engineers. On receipt of LoC from the Finance Department, the Chief Engineers authorise the Banks to honour the cheques issued by the Divisional Officers to the extent of amount specified in the authorisation letter. The role of the Bank is to honour the cheques presented by the Divisional Officer and also to watch the limit set out in the LoC. The system of LoC contemplates that the Divisional Officer should keep a progressive account of the cheques drawn during a month and limit the total drawal of cheques to the amount authorised in the LoC for the month. The Finance Department also has to watch the limit by obtaining Cheque Drawn Statement from the Divisional Officer and Treasury Officer regularly by 15<sup>th</sup> of every month. The LoC system also provides for maintaining suitable records so that the payments made on cheques are taken against the amounts indicated in LoC for the month to which the cheque relates in order to have control over the overdrawal of funds and excess expenditure. These provisions were neglected which rendered the LoC system ineffective as detailed below:

From 1999-2000, the Secretary to Government, Water Resources Department reserved 3 per cent of the amount of LoC as "discretionary quota" without the concurrence of Finance Department. The Department also issued directions to the Chief Engineers to reserve 2 per cent of the amount of LoC to facilitate urgent payments to contractors. The purpose was to make payment to selected contractors overlooking the sequence of the pending bills on the grounds of emergencies. However, any formal amendment to the system of LoC was not furnished by the Department.

No control register was maintained by the Secretary, Water Resources Department, to watch the LoC released under discretionary quota. Such release of funds ranged up to 10 per cent of LoC in April 2001 in Hemavathy Project. No norms were laid down for release of funds out of discretionary quota. This system was thus vulnerable to misuse and would encourage malpractice.

In Hemavathy project, part of LoC was even reserved by Chief Engineer for payments to contractors recommended by MPs and District Minister. The system of LoC does not contemplate release of LoC for distribution of payments to contractors preferred by MPs/District Minister. Contrary to the prescribed procedure, LoC of Rs.19.30 lakh was released by the Chief Engineer during January 2000 for payment to contractors as selected by the MPs/District Minister in Hemavathy Project.

The Divisional Officers as well as Treasury Officers did not regularly send Cheque Drawn Statements to the Finance Department by 15 of every month. Thus, this control was not operational.

In Sirwar Division during 1997-98 and 1999-2000 cheques were drawn to the extent of Rs.6.67 crore as against the amount of Rs.6.57 crore released through LoC resulting in excess drawal over LoC to the extent of Rs.0.10 crore. Reason for excess drawal was not communicated. However, the Divisional Officer replied (March 2001) that reconciliation with the Bank records would be done.

## (c) Diversion of works funds

In Munirabad Division and Dam Division, Gorur Rs.38.66 lakh released through LoC for payment to contractors were diverted by Divisional Officers for purchase of stationery articles, uniform, gum boots, printing of contract forms, TA acquittance forms etc., between February 1998 and January 2000. These payments were irregularly charged to works expenditure under the Capital Head of Account (4701).

#### (d) Release of LoC without budget provision

An amount of Rs.1.30 crore was released (July 1999) by Finance Department under 4701- Plan in respect of Ambligola Project even though no provision was made either in the original budget or in the supplementary estimates. No reasons for release of LoC were furnished by Government. The Chief Engineer in turn released Rs.1.00 crore to Ambligola Project and diverted Rs.30.00 lakh to Bhadra Project (July 1999).

#### (e) Huge amounts drawn through self-cheques

Account Code prescribes that payments to contractors for an amount exceeding Rs.10 should be made by cheque. However, the departmental officers may draw small amounts of cash through self-cheque to meet urgent and petty expenditure or for making payments to labour engaged by the Department. In gross violation of this provision, Divisional Officers of Yermarus, Sirwar and Odderahatti Divisions drew Rs.3.73 crore (May 1998 to October 2000) through 214 self cheques for amounts ranging from Rs.699 to Rs.9,89,535 and made cash payments to contractors for works as detailed below :

Division	No. of Cheques	Amount drawn (Rs. in crore)
Yermarus	92	1.27
Sirwar	75	1.64
Odderahatti	47	0.82
TOTAL	214	3.73

The CE/SE did not prevent the above irregularities despite annual inspection of the Divisions when they were expected to notice such irregularities.

## (f) Avoidable payment of interest

Due to insufficient / non-receipt of LoC for making the payment of electricity charges and Central Excise Duty within the prescribed dates initially, interest charges of Rs.48.85 lakh and Rs.4.02 lakh towards belated payments of electricity charges and of Central Excise Duty was paid by Munirabad Division to Karnataka Power Transmission Corporation Limited (KPTCL) and by Yermarus Division to Central Excise Department respectively during the period from December 1997 to January 2001.

## (g) Reconciliation of expenditure figure

According to Budget Manual, every Controlling Officer should reconcile the monthly expenditure figures recorded in their books of account with the figures recorded in the books of the Accountant General (Accounts & Entitlement) to have proper control over expenditure. Out of thirteen Controlling Officers functioning in the State, three Controlling Officers<sup>2</sup> did not reconcile the expenditure incurred by the Divisional Officers under their control from March 2000, May 2000 and December 2000, respectively.

## 4.2.5 Programme Management

## 4.2.5.1 Planning

Monitoring of the implementation of the projects is done at Government/Chief Engineer/ Superintending Engineer level and also through Multilevel Monthly Review meetings at Government level. Government had not devised any plan to complete the projects within a stipulated period. This resulted in large number of projects lingering for a long time. Taking up of new projects for execution when the old projects were lingering resulted in distribution of available resources thinly on too many projects. This led to delay in completion of on-going projects, escalation in cost and postponement of benefits.

Government prepared a Master Plan for the utilisation of surface water of 1690.30 tmc available. To utilise the available water, 109 major and medium irrigation projects were undertaken by the State Government over different periods of time upto 1998.

Department planned to create 29.62 lakh ha of irrigation potential by March 2000 through 32 Major and 77 Medium Irrigation Projects by utilising 1036 tmc of water at an administratively approved cost of Rs.7174.71 crore. Out of these, 40 projects with an irrigation potential of 4.53 lakh ha had been achieved at a cost of Rs.137.66 crore as of March 2000. The position as of March 2000 in respect of remaining incomplete 69 projects, which were taken up between 1945 and 1998, is as follows:

<sup>&</sup>lt;sup>2</sup> Superintending Engineers at Bhadra Circle, Kabini Circle and IP Circle, Gulbarga

Status of Projects	Number of projects	Administratively approved cost (Rs. in crore)	Present cost (Rs. in crore)	Expenditure up to March 2000	Irrigation Potential (in Hectares)		
	projects	(Ks. III clole)	ciore)	(Rs. in crore)	Planned	Created	
On-going	40	6734.65	19200.83	10830.41	2297671	1288605	
New	29	302.40	1356.71	64.30	211754		
Total	69	7037.05	20557.54	10894.71	2509425	1288605	

The balance cost for completion of these 69 projects was estimated at Rs.9662.83 crore. It is evident from the above table that the expenditure on on-going projects had already exceeded the administratively approved cost by Rs.4095.76 crore. There is likelihood of further escalation in project cost if time-bound plan to complete these projects is not drawn up by Government.

Out of the 40 ongoing projects, the financial and physical progress to end of March 2000 in respect of 10 projects taken up between 1959 and 1993 are detailed below:

			Fina	ncial (Rupees in	crore)	Irr	igation Potent	tial (in Hecta	res)
Sl No	Name of the project (Zone)	Year of commen cement	Admn approved cost	Expr up to March 2000	Percentage of Expr to approved cost	Planned	Created up to March 2000	Balance	Percentage of balance to planned
1.	Bennithora (Gulbarga)	1973	72.23	164.15	227.3	20236	8302	11934	58.9
2	Gandhorinala (Gulbarga)	1993	94.17	26.16	-	8094		8094	100.0
3	Hirehalla (Munirabad)	1977	6.35	112.90	1778.0	8013		8013	100.0
4	DD Urs canal (Mysore)	1979	18.50	230.28	1245.0	32376	395	31981	98.8
5	Hemavathy (Gorur/Tumkur)	1968	588.00	1431.48	243.4	283596	189194	94402	33.3
6	Kabini (Mysore)	1959	24.80	356.23	1436.4	87900	41083	46817	53.3
7	KRS Modernisation (Mysore)	1979	14.80	248.14	1676.6	2125		2125	100.0
8	Yagachi (Gorur)	1983	35.38	115.42	326.2	21450	1995	19455	90.7
9	Arkavathy (Mysore)	1975	22.60	57.26	253.3	6232		6232	100.0
10	Uduthorehalla (Mysore)	1977	32.30	102.55	317.4	6273		6273	100.0

Projects taken up twenty-five years ago still remain incomplete None of the 10 projects were completed within the targeted period of completion and projects taken up more than 25 years ago are still under execution. Escalation in cost of these lingering projects ranged between 227 to 1778 per cent over the administratively approved cost. The reasons for abnormal increase in expenditure were attributed to escalation in cost of labour, material, increase in cost of land acquisition, increase in quantities of works other than originally estimated, increase in number of cross drainage works and contractors quoting higher tender percentage.

No irrigation potential was created in five projects on which Rs.547.01 crore was spent

In 5 of the 10 projects no irrigation potential could be created though Rs.547.01 crore had been spent on them while work on 4 of the projects commenced prior to 1980. The main reasons for not creating any irrigation potential were that the Dam / Canals proper were not completed due to non acquisition of land, untimely release of funds and cases pending in the court. Government has not furnished reasons for this (September 2001).

#### 4.2.5.2 Formulation of scheme

Failure to acquire land before commencement of work resulted in infructuous expenditure of Rs, 41.73 lakh. Meaningful, effective and successful implementation of schemes/projects mainly depend upon proper planning, identification of beneficiary and provision of funds. Accordingly, land required for project work was to be acquired before commencement of work. Non acquisition of land would result in delay in execution of project and denial of irrigation facility. Test check of records in two Divisions revealed the following deficiencies in formulation of schemes.

#### (i) Improper planning leading to infructuous outlay

The Hodirayanahalla Diversion Scheme was proposed to augment water supply to the Jambadahalla Reservoir constructed during 1968 with a view to create irrigation potential for 1538 ha. The project, which was estimated to cost Rs.2.48 crore, was approved by Government (August 1987). The proposed diversion canal passes through two blocks of State Forest and required acquisition of 16.07 ha of forestland. The proposal for acquisition of land was sent to Government of India in August 1989. However, Government of India did not agree (March 1997) to part with forestland as it formed part of Bhadra Wild Life Sanctuary. An expenditure of Rs.41.73 lakh was incurred up to end of May 1998 towards improvement of existing approach roads and construction of cross drainage works. The Department did not take any action to work out an alternative alignment for the diversion canal. Improper planning in scheme formulation resulted in infructuous expenditure of Rs.41.73 lakh and the objective of providing irrigation facility to 1538 ha could not be achieved.

## (ii) Varahi Irrigation Project

The Varahi Irrigation Project was proposed to be taken up across Varahi River at Horiabbe near Siddapura village to create irrigation potential of 38,800 acres of land in Kundapura and Udupi taluk. The project was administratively approved by Government for Rs.9.43 crore (March 1979). To ascertain the possibility of producing power from this project, several discussions were held by the Technical Advisory Committee at the State level between 1981 and 1991 and finally the project was cleared by the Committee in July 1992 to construct a pick-up dam at RL 49.50 mtrs without power generation. The updated Project Report costing Rs.122.50 crore (based on Schedule of Rates of 1990-91) which was sent to Central Water Commission in January 1993 was returned to State Government in June 1993 to examine yield series, design flood aspects, environmental, ecological aspects and cropping pattern. After attending to the observations, the State Government re-submitted the Project to Central Water Commission in July 1997 for which approval was received in October 1998.

Till March 2001, an expenditure of Rs.7.64 crore had been incurred towards preliminary survey, construction of colony and land acquisition. The project, which was conceived and approved in 1979, is still to be taken up.

Delay of ten years in taking decision to have a power project or not resulted in cost escalation of Rs.113.07 crore The system of planning was not efficient in as much as the possibility of producing power from the project was not examined before the proposal could be taken up by Government. Results of yield series, environment and ecological aspects were not examined and report from Forest Department and approval from Central Water Commission were not obtained. The inordinate delay of 10 years in taking a decision at State level whether to have a Power Project or not and delay in preparing the report and getting clearance from Ministry of Environment and Forest also contributed to escalation of cost to the extent of Rs.113.07 crore.

#### 4.2.5.3 Implementation of Schemes

#### (i) Lift Irrigation Schemes lying incomplete

Lift Irrigation Schemes (LIS) are taken up by the Department in order to provide water to an area whose level is too high to allow irrigation by flow from water source but which can be economically irrigated by water raised by pumps or other lifting devices to the necessary level at some point in the supply system. The efficiency of implementation of LIS by the Department was reviewed in audit.

10 LIS taken up between 1987 and 1997 to irrigate 78,701 acres are still lingering and no irrigation potential has been created even though Rs.67.69 crore were spent as of January 2001. The Schemes were to be generally completed within a period of 1 to 3 years. They are still lingering and the delay ranged from 1 year to 13 years. The details are as under:

Name of the LIS	Estimated Cost (Rs in crore)	Expr. Incurred to end of January 2001 (Rs. in crore)	Date of commen- cement	Stipulated date of completion	Area to be irrigated (in acres)	Balance work to be done
Kamasamudra (I & II Stage)	6.30	2.14 (Up to Mar.2001)	1987 (under MI Dn)	Aug 1988 & March 1991	7670	Erection and commissioning, Canal works
Itagi-Sasalwad	12.16	0.36	1992-93	Dec 2000	4900	Acquisition of land, Jackwell, Pumphouse, Canal works and Electrification work
Basapur	14.02	1.02	1996-97	Dec 2000	5600	- do -
Varahi	59.00	16.62	Nov. 1994	June 1995	6729	Electrification work and canal works.
Halli Mysore	32.50	18.69	Nov. 1992	Jan 1995	16000	Electrification work
Bagur-Navile Tunnel Approach	20.50	10.56	Nov. 1992	Nov 1993	5000	Canal and Distributaries
Vontigudda	2.70	2.37	Mar.1997	March 1998	1000	I Stage works to be completed and canal works
Anjenayapura	26.54	1.38	NA	1998	14900	Water planning yet to be decided by Government.
Kachenahalli	30.60	2.55	NA	1998	8601	- do -
Hutchana- koppalu	27.50	12.00	Mar.1993	Sep 1994	8301	Erection and commissioning of Machinery.
TOTAL	231.82	67.69			78701	

Ten LIS taken up between 1987 and 1997 to irrigate 78701 acres of land are lingering though Rs.67.69 crore were spent A review of records of the following four major Lift Irrigation Schemes revealed the failure in system:

#### (a) Bagur-Navile Tunnel Approach Lift Irrigation Scheme (BNTA – LIS)

The work of supply, erection and commissioning of a centrifugal pump for a LIS at the approach of Bagur-Navile Tunnel at Bagur was to be completed by November 1993. The contractor executed the work to the extent of Rs.48.48 lakh up to this date due to departmental failure such as non handing over the site in time, non payment of mobilisation advance and delay in providing approved designs and drawings. The head-works, pumphouse and raising main were completed in December 1999 but the execution of canals and distributories were still under progress due to delay in acquisition of land. The LIS was energised in January 2000 and the power consumption charges of Rs.4.25 lakh were also paid to KPTCL. The water was being lifted with Lift Irrigation Pump and was being allowed to be used for irrigation for the areas coming under the atchkat of Minor Irrigation Tanks, since execution of canal under this scheme had not been completed.

Failure to supply designs and drawings, delay in payment of mobilisation advance resulted in delay in implementation of the scheme and the consequential escalation in cost to the extent of Rs.37.15 lakh. The non-acquisition of land before starting the execution of canals resulted in non-synchronisation of canal system with head works and the expenditure of Rs.10.56 crore as of March 2000 was rendered largely unfruitful besides failure to achieve the objective of providing irrigation to 5000 acres.

## (b) Halli Mysore Lift Irrigation Scheme

The supply, erection and commissioning of electrically driven pumps and motor including the design and civil works of Halli Mysore Lift Irrigation Scheme was to be completed by January 1995. The agreement provided for payment of mobilisation advance of Rs.72.73 lakh within 30 days from the date of agreement, payment of Rs.105.69 lakh at 15 per cent of the contract value within 30 days after approval of designs and drawings. The Department delayed payment of mobilisation advance by 6 to 20 months and hence extension of time had to be granted to the end of December 1998 and proposal for further extension up to December 2000 was pending. Inspite of granting extension for nearly six years and incurring expenditure of Rs.18.69 crore, the work was still to be completed (June 2001) and delay in completion of the scheme resulted in postponement of the irrigation facility to the beneficiaries.

As per the agreement, the firm had to procure 6300 meters of pre-stressed concrete pipes for completion of work. The quoted rate was Rs.5000 per meter and the entire quantity was procured by the firm between December 1994 and September 1998. As seen from the invoices produced by the firm in respect of purchases of pipes, the firm procured at Rs.2725 per meter up to August 1998 and at Rs.2806.75 per meter thereafter. Failure of the Division to ascertain the market rate for the pipes before evaluating the tender resulted in avoidable extra cost of Rs.1.43 crore to Government on the total quantity of pipes supplied by the firm.

Failure to ascertain market rate before accepting tender resulted in avoidable extra cost of Rs.1.43 crore

## (c) Varahi Lift Irrigation Scheme

A Lift Irrigation Scheme at the 38 km from Varahi Pick up Dam site was approved in October 1992 at a cost of Rs.13.55 crore to create an immediate irrigation potential of 2723 ha. Head works and other work was entrusted to an agency on turnkey basis (November 1994) at a cost of Rs.6.28 crore for completion by June 1995.

Though the firm supplied electrical and mechanical components costing Rs.5.04 crore by March 1996 and the Division deposited Rs.58.95 lakh with KPTCL by April 1999 for providing power supply the work remained incomplete as the site for construction of pump house was not handed over (June 2001) due to non acquisition of land.

The canal portion of work was completed from 0-3 kms and the balance reaches and four aqueducts are still lingering due to non acquisition of lands and rescission of contract due to stoppage of work in 4<sup>th</sup> km by the contractor on his own. In two other reaches, the work was entrusted to Karnataka State Construction Corporation who had in turn sublet the work to various contractors. Subsequently, the work was withdrawn from KSCC by Government in June 1998. The balance work was entrusted to different contractors. Due to not entrusting the work to the same contractors, who were executing earlier under KSCC, filed civil suit against the Department.

The expenditure of Rs.16.62 crore incurred (March 2001) on the LIS remained unfruitful and object of providing early irrigation benefit for 2723 ha was defeated even after 6 years.

## (d) Kamasamudra Lift Irrigation Scheme

The execution of a Lift Irrigation Scheme at Kamasamudra in Holenarasipur taluk was taken up during 1987 by Minor Irrigation Division, Hassan. The work was to be completed in two stages. The work in two stages were entrusted to two different agencies (December 1987 and 1990-91) with stipulated date of completion as August 1988 and March 1991 respectively. The two agencies procured machinery valued Rs.1.69 crore between June 1990 and May 1993 for mechanical portion of work to be executed. The machinery could not be erected and commissioned due to absence of power supply and non-completion of civil works due to not handing over of site to the agency.

The work was transferred to Major and Medium Water Resources Department (Holenarasipur Division) in September 1995 and during the course of inspection of the work by the Engineer-in-Chief (January 1996) it was observed that the machinery procured at a cost of Rs.1.69 crore had not been stored properly and was thus not in working condition. A fresh estimate for balance work (civil portion: Rs.34.32 lakh and mechanical portion: Rs.1.87 crore) was sanctioned by Government (October 1996). The estimate for the mechanical portion of work included an amount of Rs.38.02 lakh towards overhauling of machinery already procured prior to transfer of the LIS. An amount of Rs.37.03 lakh towards overhauling of machinery was paid

(February 2001) to an agency to which the balance work was entrusted (November 1996).

Lack of effective and proper planning in synchronising the civil and mechanical portion of the work and improper storing of machinery led to delayed implementation of scheme and also resulted in overhauling charges of Rs.37.03 lakh, which could have been avoided. The work was reportedly still in progress (May 2001).

#### (ii) Overlapping of cultivable command area

The work of Lift Irrigation Scheme at Anjaneyapura in Hassan District was taken up to provide relief to submerged Kattepura village and was to irrigate 14904 acres. The administrative approval and technical sanction was accorded by the Government and the Chief Engineer, Hemavathy project, Gorur respectively in December 1991 and September 1993 for Rs.10.05 crore which was revised to Rs.26.54 crore in 1995-96.

The work was taken up departmentally in 1993 and an expenditure of Rs.1.38 crore was incurred as of December 1994 on earthwork excavation and other preliminary expenses. The work was stopped (December 1994) on the ground that atchkat of Left Bank Canal of Yagachi project was overlapping with the atchkat of the scheme.

Improper planning led to overlapping of command area by two projects and the expenditure of Rs.1.38 crore incurred was rendered unfruitful. The scheme had been abandoned for the time being as a decision on water planning was yet to be taken by Government as per the reply of the Executive Engineer (April 2001).

## (iii) Demand and Revenue realisation

## (a) Shortfall in collection of water rate

The demand for Water rates payable for water utilised for irrigation purposes is to be raised by the Water Resources Department every year and the Revenue Officers are to collect the charges from the farmers and remit it to Government account. Verification of water rate demands amounting to Rs.104.29 crore as raised by four Chief Engineers covering the period from 1996-97 to 1999-2000 in respect of eight irrigation projects, vis-à-vis those collected by the revenue authorities revealed a shortfall of Rs.81.03 crore (78 per cent) in realisation of water charges. The details are indicated in Appendix- 4.6.

Shortfall in collection of water rates from farmers rendered the working of the irrigation projects uneconomical.

Expenditure of Rs.1.38 crore on command areas of two projects was unfruitful due to improper planning and overlapping

#### (b) Non-recovery of water charges

As per Rule 9 of Chapter VI of the Karnataka Irrigation Manual, Government had prescribed water rates for water drawn for industrial use and for drinking purposes by Town Municipalities from time to time.

In six Divisions, water charges amounting to Rs.32.29 crore remained unrealised from the following 10 Industries/Town Municipal Councils during the period from 1975 to 2001:

	(Rupees in crore)
Name of the Industry/Town Municipal Council	Amount
Tungabhadra Pulp Board Ltd., Munirabad	0.01
Town Municipal Council, Gangavathi	0.07
Generating Station, Odderahatti	3.75
Town Municipality, Arakalgud	0.01
Town Municipality, Arasikere and Tiptur	0.15
Town Municipality, Tumkur	0.28
Raichur Thermal Power Station, KPC, Raichur	0.54
Bangalore Water Supply and Sewerage Board	3.38
City Municipal Council, Hassan	0.26
Shivasamudra and Shimshapura Power Generating Stations	23.84
Total	32.29

As of May 2001, no action was taken by the respective Divisions to realise the water charges. No provision also exists in the Manual for levy of penalty or interest from defaulters.

#### *(iv)* Operation of consultancy contract

#### Avoidable expenditure on quality control test

The inner strengthening works of Tungabhadra Left Bank Canal were taken up in three Divisions<sup>3</sup> during closure period from April 2000 to July 2000. The approval was accorded by Government in May 2000. The soil tests required for the execution of work were conducted by the Quality Control Sub-Division, Munirabad and the results were sent to Chief Engineer in May 2000. Inspite of it, Government entrusted the same work of soil test to Tor Steel Research Foundation of India (TRFI) during May 2000 at a total cost of Rs.39.64 lakh and payments aggregating to Rs.35.18 lakh were made between June 2000 and February 2001. The specific reason for direct entrustment of this work to the said agency was not forthcoming from the Secretariat.

Since the tests had already been conducted by the QC Sub Division (May 2000), entrusting the same work to another agency was unwarranted and also resulted in avoidable expenditure of Rs.35.18 lakh.

<sup>&</sup>lt;sup>3</sup> Odderahatti, Sindhanoor and Sirwar Divisions

## 4.2.6 Other Topics of Interest

## (i) Avoidable expenditure due to rejection of offer of first agency

In Yediyur Division, the earthwork excavation in the 46 km of T Mariyappa canal (estimated cost: Rs.81 lakh) was entrusted (December 1989) to a contractor at a tender cost of Rs.57.38 lakh (25.12 per cent below SR 88-89) with stipulated date of completion as September 1991. The contractor stopped (January 1991) the work after executing the work valued Rs.86.11 lakh and sought payment towards (i) extra lead for dumping of excavated muck at an alternative site as the place provided presently was found inadequate (ii) formation of ramp as the canal has to be executed in deep cut (iii) 20 per cent over the tendered rate for items of work exceeding 125 per cent of the tendered quantity. The Chief Engineer rescinded (January 1995) the contract without risk and cost. The decision to rescind the contract was injudicious due to following reasons:

- (a) Clause 13 of the contract provided for rates to be regulated in cases where quantities are executed beyond 125 per cent of the tendered quantity.
- (b) The offer of the contractor to execute the additional quantities at 20 per cent above tendered rates were not evaluated with reference to rates payable as per clause 13 of the agreement or with reference to the then prevailing rates before taking a decision.
- (c) No reasons were on record for rescinding the contract after a delay of nearly four years.

The balance work estimated to cost Rs.82.13 lakh (based on Schedule of Rates of 1999-2000) was entrusted to another contractor at a tender cost of Rs.90.86 lakh and was in progress. The delay at the level of Executive Engineer, Superintending Engineer and Chief Engineer in taking the decision to rescind the contract and calling for fresh tender after a lapse of nearly four years had resulted in escalation in cost to the extent of Rs.34 lakh.

## (ii) Irregularities in execution of piece works

As per Government instructions of May 1993, not more than two works were to be entrusted to a single piecework contractor. Further, Government in their circular (December 1999) clarified that any original work under Major Head of Account 4701 Plan / Non Plan should not be entrusted to any contractor on piece work basis by splitting the works valued at Rs.25,000 or less.

A scrutiny of records of two Divisions revealed that 78 works of original nature under 4701 – Capital Outlay on Major and Medium Irrigation were entrusted to several contractors on piece work basis at a cost of Rs.33.77 lakh between April 1997 and November 2000 as detailed below in violation of Government instructions.

Sl. No.	Name of the Division	No. of pieceworks entrusted	Period of entrustment	Expenditure incurred (Rupees in lakh)	Nature of works	Remarks
1.	HRBC Division, Holenarasipur	35	1999-2000	18.67	Canal works – Kamasamudra Rangenahalli LIS	
2.	No.1, TR Division, Munirabad	43	1997-98	15.10	Providing impervious soil for construction of embankment of CD approach in Km 3.4 of LBC of Hirehalla Project	All the 43 works were entrusted to a single contractor

The Divisional Officers made huge payments without observing the existing controls. The SE/CE took no action for such flouting of Government Orders. The entrustment of work on piecework basis deprived Government the benefit of competitive rates. Further, the possibility of fictitious work and fraudulent payment could not be ruled out.

#### (iii). Excavation in Hard Rock

#### (a) Loss of revenue due to non-stacking

As per specifications given in Schedule B (Agreement Form PWG 65) for the item of work 'Earthwork Excavation (EWE) in all kinds of Hard Rock', the excavated hard rock should be neatly stacked by the contractor and payments for such excavation should be regulated on the basis of stack measurements after deducting forty per cent of the quantity towards voids. The excavated hard rock should be accounted for in the Material-at-Site (MAS) Accounts of the Section Officers in-charge of the work so that the same can be used for other works or can be disposed off to the best advantage of the Government.

In three Divisions, scrutiny of records revealed that a total quantity of 549872 cubic metres (cum) of hard rock reportedly excavated between 1992-93 and 2000-01 were neither stacked nor taken to MAS Accounts by the concerned Section Officers. This resulted in loss of revenue to Government to the tune of Rs.4.05 crore as detailed below:

Sl No.	Name of the Division	No. of works	Year of execution	Quantity of Hard Rock excavated (in cum.)	Value of Hard Rock as per DSR (Per cum.)	Amount (Rs. in crore)
1.	Hemavathy Canal Division, Yediyur	4	1992-93 to 1995-96	2,13,438	Rs.50 (SR of 93-94 of Turuvekere Circle)	1.07
2.	- do -	25	1996-97 to 2000-01	2,32,102	Rs.95 (SR of 96-97 of Turuvekere Circle)	2.20
3.	Hemavathy Right Bank Canal Division, Holenarasipur	1	3/1996 to 7/1998	44,797	Rs.95 (SR of 99-00 of Gorur Circle)	0.42
4.	No.2, Varuna Canal Construction Division, Mysore	21	1996-97 to 1998-99	59535	Rs.60 (SR of 96-97 of Mysore Circle)	0.36
	TOTAL	51		5,49,872		4.05

This requires investigation by Government.

## (b) Fictitious excavation

In respect of the work of 'Earthwork Excavation and Providing Cement Concrete lining in 39<sup>th</sup> km of Hemavathy Left Bank Canal' (Holenarasipur Division), the quantity of Hard Rock excavated worked out to 44,797 cum for which payment at the rate of Rs.128.73 per cum was made. As per data rates approved for the work, 0.26 kg of gelatin was required to excavate one cum of hard rock. Audit scrutiny revealed that 2250 kg of gelatin was consumed on the work. The possibility of excavation of hard rock by using this quantity of gelatin would be only 8,654 cum as against 44,797 cum of hard rock stated to have been excavated. Payment of Rs.46.53 lakh made for the doubtful quantity of hard rock also appears to be fictitious.

## (c) Non-recovery of stacking charges

In the Hemavathy Canal Division, Yediyur, the contractors did not stack hard rock excavated to the extent of 2,84,256 cum in respect of 21 works. The division did not recover the stacking charges of Rs.16.26 lakh from the contractor, calculated at Rs.5.72 per cum

# (iv) Non-recovery of cost of Ring Bunds from contractors

As per clause 1.6 of General Specifications and Conditions of Contract, the contractor had to make his own arrangements for procuring water required for execution of works.

In four Divisions, the Divisional Officers entrusted three works on piecework basis and one work on tender basis to contractors between March 1997 and April 2000 as detailed in Appendix-4.7. The Department irregularly provided ring bunds and cofferdams, at a cost of Rs. 33.22 lakh, so as to enable the contractors to draw water by siphoning from these bunds. Since providing the water for execution by the department was against the terms of contract, the expenditure incurred in this regard requires to be recovered from the contractors. No action was initiated to recover this amount from the contractors.

# (v) Non renewal of Bank Guarantees

A review of the Register of Bank Guarantees maintained in Hemavathy Canal Division, Yediyur and No.2, Varuna Canal Construction Division, Mysore, revealed that Bank Guarantees obtained for an amount of Rs.27.52 lakh in respect of fourteen contractors were allowed to lapse between 1998-99 and 2000-01. As Bank Guarantees were obtained as securities for the successful performance of the contractors, non-renewal of bank guarantees constituted a serious lapse, which may lead to potential loss to Government in the case of breach of contract.

Construction of ring bunds at Government cost requires recovery of Rs. 33.22 lakh from the contractors

Usage of lesser

quantity of gelatin

raises doubt about excavation of 36143

cum of hardrock

# (vi) Non-collection of dues towards pro-rata expenditure on works from Andhra Pradesh

A Medium Irrigation Project, Rajolibanda Scheme, which was to irrigate 5879 acres, was originally being executed by the Andhra Pradesh Government. Consequent upon re-organisation of States (1956), the scheme was handed over to the Karnataka Government. As per agreement, the expenditure incurred was to be shared by both the Governments at the ratio of 1:13.78 for head-works, 1:9.63 for canals and 1:11.70 towards establishment. The amount recoverable from the AP Government worked out to Rs.8.30 crore relating to the period from November 1956 to March 1997. The matter was reported to Government in September 1997 by the Chief Engineer to address the Andhra Pradesh Government. No action was taken by the Government to recover the amount and also to assess the demand from March 1997 onwards.

### 4.2.7 Stores Management

Government in their Circular issued in November 1983, issued instructions for constitution of circle level Purchase Committee headed by Superintending Engineer and other Divisional Officers as members to conduct meetings once a month. The Committee has to review the needs, availability on stock and necessities of procuring stock articles, spares and tools and plants. The Divisional Officers shall make purchases only after it is agreed to by the Purchase Committee subject to approval of competent authority as per standing rules in force.

#### (i) Sanctions to purchase in violation of delegated Financial Powers

Purchase of vehicles requires prior sanction of Government. The Chief Engineer, Munirabad Zone, accorded sanction (June 1998) for purchase of two vehicles costing Rs.12.82 lakh in violation of the said procedure. On this being pointed out (February 2001), the Chief Engineer stated (February 2001) that Government had been requested (September 1998) to accord post-facto sanction. The same was awaited (June 2001).

### (ii) Injudicious purchase of materials

Paras 47 and 48 of the Stores Manual prohibits direct purchase of material without reference to the Stores Purchase Department (SPD) and Officers making purchases should not split up the purchases for evading the rules relating to large purchases.

A scrutiny of records of two Zonal Offices<sup>4</sup>, three Circle Offices<sup>5</sup> and one Division<sup>6</sup> revealed that the requirements of materials for each Division were not assessed on a quarterly basis. Chief Engineer/Superintending Engineer/

No efforts were made to recover Rs.8.30 crore towards share of expenditure incurred on irrigation projects.

<sup>4</sup> Gorur and Munirabad

<sup>5</sup> Channarayapatna, Gorur and Yermarus

<sup>6</sup> Odderahatti

Executive Engineer (CE/SE/EE) accorded 553 sanctions for purchase of materials valued Rs.3.40 crore between March 1997 and March 2001 as detailed in Appendix -4.8. Though these purchases required sanction of Government, they were conveniently split up into bits of Rs.25,000 and less in the case of Superintending Engineer and Rs.1,00,000 and less in the case of Chief Engineer so as to bring them within the ambit of the financial powers delegated to them.

In 5 divisions, blasting materials and expansion joints were purchased during 1995-2001 (as of September 2000) at a cost of Rs.51.51 lakh. The material was lying unused in stock since their procurement. The details are shown in Appendix- 4.9.

### (iii) Non-accountal of PCC slabs

(a) In Sirwar Division, Inner Strengthening (IS) work of Tungabhadra Left Bank Canal (TLBC) was entrusted on tender basis during the closure period of 1999 and 2000. The tender schedule included an item for removing and stacking PCC slabs released from the lining. Such released PCC slabs were to be accounted for either in MAS accounts of the concerned Section Officer or in the Sub-divisional Stock.

The number of PCC slabs removed and to be stacked as per Measurement Book was 1,74,460 in respect of 17 Inner Strengthening Works. This was reduced by 34,892 towards wastage and damaged PCC slabs. Of the 1,39,568 slabs in balance, slabs numbering 1,04,158 were not accounted for either in the MAS accounts or in the Sub-Divisional stock. This resulted in nonaccountal of PCC slabs to the extent of Rs.29.69 lakh.

(b) A scrutiny of records at Head-works Sub-Division, Munirabad revealed that during July 1998, a total quantity of 1,00,253 PCC slabs were manufactured and transported (February 1999 to September 1999) to Kinnala Sub-Division through Departmental vehicles and private vehicles. However, the records of Kinnala Sub-Division did not contain the receipt of these slabs, which resulted in loss of PCC slabs valued Rs.38.85 lakh. The above cases require investigation by Government.

# 4.2.8 Human Resources Management

Water Resources Development Organisation is an investigation organisation in respect of planning and preparation of all Major and Medium Irrigation Projects in the State. The establishment matter of Irrigation Zones with regard to service matters, postings and transfers of staff is also attended to by this zone. The main category of staff working on the technical side in the Department are Chief Engineers, Superintending Engineers, Executive Engineers, Assistant Executive Engineers, Junior Engineers, Draftsman, Tracers etc. On the non-technical side, there are Registrar, Accounts Officers, Accounts Superintendents, Accounts Assistants and other Ministerial staff. For purpose of water management the staff working are Work Inspectors, Gauge Readers, Sluicemen, Sowdies, Gangmen etc.

The position of technical and non-technical staff working in the Department as of December 2000 as furnished by EIC, Water Resources Development Organisation was as follows:

Category of post	Sanctioned strength	Working strength	Vacancies
Technical	3984	2905	1079
Non technical	6446	5752	694
Total	10430	8657	1773

A Committee has been constituted to assess the workload of each Division and Sub Division so that the Division / Sub Division can be wound up or kept dormant after assessing the requirement.

#### (i) Deployment of surplus staff

The Irrigation Manual envisaged deployment of sowdies for water management at the rate of one sowdy up to 250 ha. As sufficient number of posts were not sanctioned for water management in each division, the sowdies were deployed through contractors on daily payment basis.

A scrutiny of records of eight Divisions<sup>7</sup> revealed that, as per norms the number of sowdies required for a command area of 3,69,759 ha was 3424. Since 601 sowdies were already working against sanctioned/supernumerary posts, the actual number of sowdies thus to be deployed through contractors worked out to 2823. As against this the services of 4058 sowdies were utilised during the period from April 1996 to November 2000 for a total of 4641 days resulting in excess deployment of 1235 sowdies and consequential avoidable payment of Rs.2.01 crore on their engagement.

# (ii) Deployment of staff through contractors to work in the sub-division office

In three Divisions (Munirabad, Tumkur and Yermarus), personnel like Assistant Engineers, Sweepers, Scavengers, Literate Assistants and Drivers were engaged through contractors to work in the Sub-Division offices. The Assistant Engineers were engaged in preparation of estimates, copying of estimates and drawings, the Literate Assistants in assisting the supervision of works, Drivers for vehicles, sweepers and scavengers for cleaning purpose in the office and camp area. There was no basis for engaging them and no prior approval of higher authorities was obtained. The expenditure incurred was debited to the ongoing works as well as Annual Maintenance Estimates of vehicles and canals. As regular staff was already deployed in these offices, providing such personnel by the contractors and the expenditure of Rs.25.92 lakh incurred on them by the Divisions between April 1996 and March 2001 on such staff was irregular. This requires investigation.

Engagement of excess labourers through contractors resulted in avoidable payment of Rs.2.01 crore

<sup>&</sup>lt;sup>7</sup> Bellary, Bhadravathi, Davanagere, Holenarsipura, K.R.Pet, Malebennur, Odderahatti & Sirwar

## (iii) Non-utilisation of services

(*a*) The activities relating to the Cauvery and Krishna-Godavari Water Dispute were being dealt with by the Engineer-in-Chief, Water Resources Development Organisation (WRDO), Bangalore. The scrutiny of the bills relating to expenditure of these disputes and connected payments were attended to by two Sub-Divisions *viz.*, No.3, Gauging Sub-Division and No.4, Irrigation Investigation Sub-Division located in the premises of the Office of the Engineer-in-Chief, WRDO, which came under the control of Irrigation Investigation Division, Mysore.

The main functions of the Gauging Sub-Division were gauging works to be carried out in Bangalore, Kolar, Tumkur and Mandya districts and recording, scrutinising and passing of bills relating to the Cauvery Water Dispute. Similarly, the main functions of the Irrigation Investigation Sub-Division are to record, scrutinise and pass the bills relating to the Krishna-Godavari Water Dispute and to maintain vehicles purchased by WRDO for use by Advocates, Secretariat Staff and Ministers.

In each of the Sub-Divisions, there were seven technical staff who were mainly deployed for works relating to water dispute activities instead of for gauging works. On the other hand, the Irrigation Investigation Sub-Division did not have any work relating to Survey and Investigation and was mainly engaged in settlement of bills and vehicle maintenance. Hence, the justification for continuing the Investigation Sub-Division needs examination by Government.

(b) An Assistant Horticulture Officer (AHO) who was posted to the Circle Office at Gorur (July 1998) was sent on deputation to the Sub-Division Office for maintenance of Garden at Gorur. The AHO was accommodated against the sanctioned post of a Head Draftsman in the Circle Office. The post of head draftsman was abolished in May 1999 and besides the Sub-Division did not have any sanctioned post of AHO. As seen from the diary submitted, the officer had on an average attended to the work relating to Horticulture for only ten days in a month, and his services were mainly utilised for attending court cases in relation with disputes of daily wage employees. As there was no sanctioned post, drawal of pay and allowances of Rs.3.19 lakh between August 1993 and February 2001 for the AHO was irregular.

# *(iv)* Staff in excess of requirement

In respect of labourers who were appointed on daily wages up to the end of June 1984, the Supreme Court passed a judgement that services of all daily wage labourers who were continuously engaged for 10 years or more were to be regularised. Accordingly, the Government regularised (August 1990) their services from 1 January 1990. While regularising their service, Government also ordered for creation of supernumerary posts for these regularised labourers as well as absorption against sanctioned vacant posts.

In Hemavathy Project Zone, Gorur, the number of persons working on supernumerary non-technical cadre was 943 (March 2001). The actual

Avoidable expenditure of Rs.4.87 crore on surplus staff requirement for the zone as worked out by the Chief Engineer came to 399 persons in various categories. A proposal was sent to Government (November 2000) for creation of these 399 posts. No action was taken by the Chief Engineer to address the Deputy Commissioner to transfer surplus staff. The Department also did not give any information on the deployment of this surplus staff. The pay and allowances between April 1998 and March 2001 relating to said staff amounted to Rs.4.87 crore.

## (v) Redundant Post

As per Paras 19 and 20 (a) of KPWA Code, the function of the Divisional Accountant (Accounts Superintendent) is to assist the Divisional Officer, to compile the accounts of the Division, act as an internal auditor to check the initial accounts and be a financial assistant to the Divisional Officer in all matters relating to accounts and budget estimates.

One post of Accounts Superintendent was sanctioned for the office of the Superintending Engineer, Hemavathy Canal Circle, Turuvekere. However, such nature of works were not required to be done in that office. Thus, the creation of such a post was not justified.

# 4.2.9 Monitoring and Evaluation

The Department has a Monitoring Unit headed by a Chief Engineer (CE) since 1987. This Unit mainly monitored externally aided projects. The monitoring of major and medium irrigation projects was not being done by them except sending statistical reports on various projects to Government. The SE replied (June 2001) that this Unit had no direct control over the Project authorities. Thus, there was no effective monitoring of projects at State level, except the multilevel monthly review meetings at Secretariat level. Due to ineffective monitoring, apart from other reasons, large number of projects, some of which were commenced as early as 20 years back, still remained incomplete.

**4.2.10** The matter was referred to Government in August 2001. However, no reply had been received (September 2001).

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# **SECTION 'B' – PARAGRAPHS**

# MINOR IRRIGATION DEPARTMENT

# 4.3 Locking up of Government money

### CE arranged for unnecessary purchase of Pumps and motors on 31 March 1999 for 12 Lift Irrigation Schemes at a cost of Rs.2.51 crore – These are mostly lying in stores for two years

There are 12 Lift Irrigation Schemes (LIS) in operation in Raichur (4) and Koppal (8) taluks. These LIS had 2 pumps and motors each to provide regular water supply for irrigating fields in the area and these pumps were in good working condition, as of March 1999. The Chief Engineer, Minor Irrigation (North) Bijapur (CE), however, orally ordered Executive Engineer, MI Division, Kushtagi (EE) that additional pumps and motors be provided to these LIS and accorded administrative approval on 31 March 1999 for the purchase of 12 pumps and motors for these schemes at a cost of Rs.2.25 crore. The work was technically sanctioned on the same day by the Superintending Engineer, Minor Irrigation Circle, Gulbarga (SE) and obtaining quotation, placing order, receipt and accountal of materials were also reportedly completed on the same day.

Scrutiny in audit (August 2000) of the pertinent records revealed the following serious irregularities:

- (a) The estimates were prepared by EE on the oral orders of the CE and SE even though the existing pumps and motors were in good working condition and purchase of additional pumps was not necessary.
- (b) The estimates provided for supply and erection of pumps and motors and accessories but did not provide for electrical works. Thus procurement of pumps etc., was the main object to exhaust available funds while their utilisation was ignored.
- (c) The quotations for the purchase of Pumps and motors, with capacity varying from 65 HP to 200 HP, of 'Kirloskar and Jyoti' make were obtained from the local suppliers and the pumps and motors were procured through two local firms. As seen from the report accompanying the estimate, the estimates were prepared on the basis of the prevailing market rates as the SPD rate contract was not available. As the supply orders placed by the Department with the suppliers did not contemplate the trial run of motors and pumps, the division did not ensure the quality of the stores at the time of supply.
- (d) The supplying firms for the pumps and motors were not registered with the Commercial Taxes Department.

- (e) The motors and pumps were not installed for next 1-1/2 years as of August 2000 and thus the purchases were totally unnecessary.
- (f) Though the SE was empowered to accord sanction for individual purchases up to a limit of Rs.1 lakh, in the instant case the SE approved purchases, which ranged from Rs.16.39 lakh to Rs.22.07 lakh in each case in violation of codal provisions.
- (g) As the purchase formalities were completed in undue haste i.e. in a single day on 31 March 1999 and also as the pumps and motors were not installed, energised and trial run conducted, the quality of the pumps was not ensured by the Department before these were procured.

As of now (September 2001), six pumps and motors purchased were erected but not commissioned and for the remaining six pumps the Department had fixed an agency for erection.

The unusual haste in according administrative approval and technical sanction by CE, SE and EE and completion of other formalities for the purchase of motors and pumps, costing Rs.2.51 crore, in violation of financial regulations gives rise to doubt about the bonafides and necessity of the purchase, more so when the material was lying unused for 2 years after purchase.

The matter was referred to the Secretary to the Government in May and June 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

### 4.4 **Protection work based on untested design**

In executing protection work against sea erosion in Kotepura, Department did not adhere to approved design and failed to take remedial measures during the initial phase of work. The structure collapsed in the monsoon of 2000 and the expenditure of Rs.74.42 lakh on this structure was totally wasted.

Kotepura, a coastal town near Ullal in Mangalore taluk experiences severe sea erosion by virtue of its location. In 1997, 15 to 20 mtrs width of land for a length of 850 mtrs was eroded completely causing considerable damage to property. Technical Expert Committee (TEC)<sup>1</sup> opined in February 1999 that the Ullal reach being very critical should be immediately protected. As the state government needed time to study the design proposed by the Karnataka Engineering Research Station (KERS) for Ullal, the TEC suggested a temporary solution in the form of locally fabricated Gabion boxes<sup>2</sup> filled with boulders to act as a filter media with provision of sandbags behind the Gabions on the landside to provide the necessary stability. The temporary

<sup>1</sup> Constituted by Government to clear the projects, estimates and advise the Government in technical matters relating to Minor Irrigation works.

<sup>2</sup> Gabions are zinc and PVC coated mesh in the shape of a box and are filled with stones.

measure could later form part of the permanent structure to be taken up in the subsequent year. The TEC also recommended that KERS provide a typical design based on simulated model studies and the entire temporary measure work was to be completed before the monsoon.

Government administratively approved (March 1999) the work at an estimated cost of Rs.1.70 crore and the same was technically sanctioned (April 1999) by the Superintending Engineer, Minor Irrigation Circle, Mysore (SE). The measure was reportedly tried for the first time in India and the effectiveness of the design was not known to KERS / TEC.

The works were entrusted on tender basis to different contractors and work for 300 mtrs (Ch 9.325 - 9.425 km and Ch 9.725 - 9.925 km) was completed at an expenditure of Rs.62 lakh during 1999 before the monsoon. The work in the remaining reach of 550 mtrs could not be taken up before the monsoon due to receipt of single tender with high rates and the bidder being unwilling to negotiate.

In March 1999, KERS indicated that it lacked expertise in the kind of structure suggested by TEC but furnished a design with certain deviations thereto and proposed that the sandbags be provided inside the Gabion boxes instead of their being placed behind the Gabions (land side).

Ultimately, the temporary wall executed by the Department adhered neither to the design suggested by the TEC nor KERS, as no sandbags were provided within the Gabion boxes or placed behind the Gabion wall.

In December 1999, the TEC inspected the site and noticed that the Gabion wall was tilting at some points due to scouring of sand at the toe. The TEC suggested providing additional Gabions to strengthen the structure and to avoid further tilting. However, no remedial action was taken by the Executive Engineer, MI Division, Mangalore, prior to or even during the rainy season of June – September 2000.

Despite the suggestion of SE for strengthening the already constructed walls, the Divisional officer executed the work in the balance reaches (except in Ch 9.625 - 9.725 km) in the same manner as in the initial stretch of 300 mtrs during December 1999 to May 2000 at a cost of Rs.74.42 lakh as per the instructions of the Minister for Minor Irrigation. The entire structure thus constructed for 750 mtrs at a cost of Rs.1.36 crore collapsed during the monsoon of 2000 rendering the entire expenditure futile.

The matter was referred to the Secretary to the Government in March and July 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

# 4.5 Unwarranted decision and delay in finalisation of tender

# Unwarranted cancellation of tenders and undue delay in finalisation of tender resulted in avoidable extra liability of Rs.65.57 lakh

The construction of a minor irrigation tank near Ashtoor village in Bidar district (estimated cost Rs.1.20 crore) was administratively approved by Government in September 1999 and technically sanctioned by the Chief Engineer, Minor Irrigation (North), Bijapur (CE) in November 1999. The object of the proposed tank was to provide irrigation facilities to 106 ha of land.

_					(Rupees in lakh)
Sl No.	Details of invitation of tender	Amount put to tender	No. of offers received	Offer of the lowest tenderer /(tender percentage)	Reasons for rejection of tenders
1	First call July 1999	96.50	4	124.99 (plus 29.53)	At the instructions of the Minister for Minor Irrigation as wide publicity was not given.
	Second coll				Freak rates quoted by the lowest tenderer. Rationalisation not possible as
2	Second call December 1999	99.50	12	71.09 (minus 28.56)	Schedule of Rates increased from April 2000.
					Lowest tenderer did not extend the validity period.
3	Third call May 2000	119.34	5	136.66 (plus 14.52)	Lowest tender accepted.

The tenders for the work were invited thrice as detailed below:

In response to second call (December 1999), twelve tenders were received with validity period up to 29 April 2000. The Executive Engineer, Minor Irrigation Division, Bidar (EE) took 25 days (29 January 2000 to 22 February 2000) and recommended the three lowest tenders and the Superintending Engineer, Minor Irrigation Circle, Gulbarga took 47 days (23 February 2000 to 10 April 2000) to forward the tender papers and comparative statement to the CE with recommendations for acceptance of lowest quotation (Rs.71.09 lakh) of contractor 'A'.

Meanwhile, division sought extension of validity period from the three contractors whose lowest bids were under consideration. The lowest tenderer, whose rates were freak, did not extend the validity period. Though second and third lowest tenderers extended the validity period, negotiations for rationalisation were not possible as schedule of rates were revised from April 2000. The CE ordered (May 2000) for re-tender, by which time the validity of the bids expired.

Accordingly, fresh tenders were called for again (May 2000) and the CE accepted the lowest tender of contractor 'A' at his quoted rate of Rs.1.37 crore.

The reasons attributed by the CE for rejection of tenders in respect of second call violates the instructions contained in Government Order of December 1996, which stipulated that tenders containing freak rate(s) should be accepted by the competent authority even when no rationalisation of rates was possible. Thus, the decision of CE was unwarranted and resulted in loss of Rs.65.57 lakh to Government (Rs.136.66 lakh *minus* Rs.71.09 lakh) at the award stage.

As the lowest tender in first and the third call was from the same contractor 'A', the acceptance of tender appears to be pre-determined in favour of the contractor 'A'. In the second call, the contractor 'A' (lowest during the first call) was not the lowest tenderer and though the bids were technically viable, the process of finalising the tenders was unduly delayed and the work was retendered on unjustified grounds after the expiry of validity of 90 days. Since the contractor 'A' was the lowest tenderer in the third call, the tenders were processed and accepted in just two days (EE recommended on 29 May 2000 and the CE accepted on 31 May 2000), whereas the process of finalisation in second call was not completed even in 90 days.

The matter was referred to the Secretary to the Government in April and May 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

## 4.6 Infructuous expenditure on bridge-cum-barrage

### Construction of Kaladgi barrage in the submerging area of Almatti dam at the behest of the MLA/MLC and ZP members without feasibility study rendered expenditure of Rs.42.68 lakh unfruitful

The Government approved (November 1994) the construction of a barrage across the River Ghataprabha, a tributary of the River Krishna, near Kaladgi in Bagalkot taluk on the demand of local leaders viz., MLA, MLC and ZP Members. The site for the barrage was only 69 kms away from the Almatti dam (RL 524.24 mtrs), which was under construction across the River Krishna. At no stage the Almatti dam authorities were consulted before taking up this work in the backwaters of the Almatti dam. The command area (364 ha) of the proposed barrage was a part of the command area of the Ghataprabha Project (a major irrigation project). The Chief Engineer, Minor Irrigation (North), Bijapur (CE) technically sanctioned (January 1997) the work for Rs.86.66 lakh.

The civil work of the barrage was awarded (February 1998) to contractor 'A' at his tendered rate of Rs.89.30 lakh, with the stipulation to complete the work before November 1999.

The works of providing and fixing MS gates and channels were awarded (April 1998) to contractor 'B' at his tendered rate of Rs.17.38 lakh (Rs.15.31 lakh *plus* Rs.2.07 lakh) with stipulation to complete the work before October 1998. The contractor was paid Rs.15.64 lakh (90 per cent of the

value of contracts) during July 1998 and November 1998 towards supply of materials.

The contractor 'A', entrusted with civil works, gave financial progress of Rs.25.46 lakh (including Rs.7.82 lakh towards extra lead charges) and stopped the work during October 1998.

Meanwhile, CE approved (May 1999) the conversion of the barrage into bridge-cum-barrage as per request of local MPs and MLAs, which required modifications in the designs and drawings.

In October 1999 the contractor demanded payments at higher rates for balance work and de-watering charges as the site was submerged for most of the period under the backwaters of the Anagawadi barrage situated downstream of the Kaladgi barrage. The CE instructed (November 1999) to check water level at site when the gates of the Anagawadi barrage were closed and it was observed that actual sill level and crest level was 512.17 mtrs and 516.17 mtrs respectively as against 517.30 mtrs and 521.30 mtrs provided in the original estimate. Later, the Executive Engineer, Minor Irrigation, Bijapur also reported (June 2000) to the SE that with impounding of water in Almatti dam up to RL 519.60 mtrs, the Kaladgi barrage submerges under the backwaters of Almatti dam, as shown in the Map.

Hence, the barrage would not serve the intended purpose.

As directed (August 2000) by Government, the CE submitted (November 2000) the revised estimate and plan for construction of bridge-cum-barrage for Rs.1.73 crore to the Technical Appraisal Committee (TAC) for clearance.

Members of the TAC visited the site and opined (January 2001) that there was no need for a barrage/bridge-cum-barrage as:

- (i) The proposed barrage would be submerged for 7 to 8 months under the backwaters of the Almatti dam at RL 519.60 mtrs. The gates would get rusted frequently and need regular maintenance and replacement,
- (ii) the long approaches needed for the proposed bridge would also be submerged under water for 7 to 8 months in a year and hence its stability would be doubtful, and
- (iii) several Lift Irrigation Schemes located upstream and downstream would supply water for irrigation in the proposed Command Area.

The Government has not taken any decision on the report of the TAC. (April 2001)

The resumption of the work on the barrage is remote in view of the findings of the TAC. The project was ill conceived because the Government took up the construction without a feasibility study to ascertain whether the proposed barrage would be submerged under the backwaters of the Almatti dam. This resulted in an infructuous expenditure of Rs.42.68 lakh.

The matter was referred to the Secretary to the Government in March and May 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

## 4.7 Unwarranted payment of de-watering charges

# Undue benefit to the contractor towards de-watering charges in violation of contractual provisions – Rs.29.68 lakh

The work of construction of salt-water exclusion dam at Neelavara village in Udupi taluk was administratively approved for Rs.2.49 crore (March 1999) and technically sanctioned by the Chief Engineer, Minor Irrigation (South), Bangalore (CE) in May 1999. The work was awarded (October 1999) to a contractor, at his tendered rate of Rs.2.85 crore with stipulation to complete the work by October 2001.

As per the terms of agreement, the rate quoted by the contractor for foundation work was inclusive of de-watering. Para 3 of Special Clause appended to agreement stipulates that the rates quoted for foundation included the cost of shoring, bunds, coffer dam *etc* and other incidental deviation work for

diverting the water met within the foundation due to any cause and no extra rate was payable for bailing out such water.

During excavation for foundation at a depth of 6 to 7 mtrs, the contractor bailed out water found at that level between December 1999 and May 2000. In December 1999 (13 December 1999), the contractor gave a representation to the Department for incorporating de-watering as an extra item in the estimate. The request of the contractor for incorporating this item was rejected by the Executive Engineer (December 1999) on the ground that the rate fixed for foundation work was inclusive of de-watering. However, in May 2000, the Department re-examined the request of the contractor at the instance of the Minister for Minor Irrigation and the CE approved the Extra Item Rate List (EIRL) during September 2000. Accordingly, Rs.29.68 lakh was paid to the contractor towards de-watering during October 2000.

The Chief Engineer justified the de-watering charges on the ground that the conditions mentioned in the agreement were applicable under normal circumstances. In this case, foundation work was executed beyond 6 to 7 mtrs depth and accumulated water had to be de-watered by using heavy pumps throughout the excavation.

The contention of the Department was not tenable, as the contract was specific for the work being undertaken and the Special Clause therefore did not provide for extra charges for de-watering. The contractor's initial representation was also turned down by the EE on these grounds. Further, once an agreement has been executed, the terms of agreement are not negotiable. Thus, the payment of de-watering charges of Rs.29.68 lakh in disregard of contract conditions amounted to undue benefit to the contractor.

The matter was referred to the Secretary to the Government in March and May 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

# 4.8 Undue payments beyond contractual agreement

### Failure to apply *minus* <sup>1</sup>tender percentage while re-entrusting the work in violation of contractual agreement resulted in loss of Rs.28.75 lakh

The work of construction of a minor irrigation tank at Ingalgi in Sindagi taluk (Bidar district) was awarded (March 1996) to a contractor at his tendered rate of Rs.59.36 lakh (23.70 per cent *below* CSR of 1994-95) for completion within 24 months excluding monsoon period.

The work could start only in October 1997 due to delay in acquiring land by the Revenue authorities.

<sup>1</sup> The contract agreement (PWG 65) indicates minus tender percentage, if the rate quoted is less than the Schedule of Rates.

Since the work was delayed by over 18 months, the EE recast the cost of work to Rs.83.98 lakh (based on CSR 1996-97 continued for 1997-98) and a supplementary agreement was executed (September 1997). This was accorded *post-facto* sanction by Government in June 1998. The contractor commenced the work in October 1997 and up to July 2000, Rs.95.53 lakh, including Rs.37.34 lakh towards extra items was paid to him.

Clause 15(d) of the contract agreement specifies that when the work is stopped for a period exceeding six months, the portion of that work would be treated as deleted from the agreement and the deleted work could be executed through the same contractor on supplemental agreement on mutually agreed rates, which shall not exceed CSR *plus* or *minus* tender percentage. In this case, the work was not withdrawn from the contractor but was re-entrusted to the same contractor for Rs.83.98 lakh on supplemental agreement without considering the tender percentage. Re-entrustment of the work without considering the reduction due to minus tender percentage (23.70 per cent) resulted in loss of Rs.19.90 lakh (23.70 per cent of Rs.83.98 lakh) on the main estimate and Rs.8.85 lakh (23.70 per cent of Rs.37.34 lakh) towards extra items.

Thus, failure to apply the tender percentage while re-entrusting the work in violation of contract conditions resulted in loss of Rs.28.75 lakh (Rs.19.90 lakh *plus* Rs.8.85 lakh).

The matter was referred to the Secretary to the Government in April and May 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

# 4.9 Unfruitful outlay on minor irrigation tank

### Construction of a tank could not be completed in 7 years due to non acquisition of land resulting in unfruitful expenditure of Rs.28.27 lakh

Para 209 of Karnataka Public Works Department Code prohibits the commencement of work without acquisition of required land.

Government administratively approved (July 1993) construction of a tank near Appenahalli in Arsikere taluk of Hassan district, to irrigate 105 acres of land. The Chief Engineer, Minor Irrigation (South), Bangalore (CE) technically sanctioned (November 1993) the work for Rs.19.81 lakh.

Scrutiny of records (July 1997) revealed that the Executive Engineer, Minor Irrigation, Hassan (EE) took up the work departmentally (January 1994) on the oral instructions of the CE, but stopped the work after incurring an expenditure of Rs.21.52 lakh (December 1994) due to the ban imposed by Government on execution of works departmentally. Since there was no response to the tenders floated during March 1995 and June 1995, tenders

were re-invited in December 1996 for the balance works<sup>1</sup> valued at Rs.2.30 lakh. The lowest offer of contractor 'A' at his tendered rate of Rs.2.07 lakh was accepted and work awarded to him in May 1997 although the required land had not been acquired. After execution of work valued at Rs.0.85 lakh<sup>2</sup>, the contractor stopped work (June 1997), as the landowners of the area did not allow the execution of work on the land, which had not been acquired by the Department.

It was observed in audit that though the Department had stopped the work in December 1994, the balance work was entrusted to the contractor after a delay of more than two years in May 1997. Even after 7 years of commencement of work and incurring an expenditure of Rs. 28.27 lakh, as of August 2001, the work remains incomplete.

Due to the failure of the Department in acquiring the land before entrustment of work, irrigation potential for only 5 acres had been created against the planned target of 105 acres and expenditure of Rs.28.27 lakh was rendered unfruitful as of August 2001.

The matter was referred to the Secretary to the Government in February and August 2001. However, no response was received from him (September 2001).

### 4.10 Lack of response by Government to Audit Observations

Accountant General (Audit) – AG (Audit) conducts periodical inspection of the Government departments to test-check the transactions and verify the maintenance of important accounting and other records as per prescribed rules and procedures. These inspections are followed by Inspection Reports (IRs), which are issued to Heads of offices inspected with a copy to next higher authorities. Government rules etc., provide for prompt response by the executive to the IRs issued by the AG to ensure corrective action and accountability for the deficiencies, lapses, etc. noticed during his inspection. The Heads of offices and next higher authorities are requested to rectify the defects and omissions promptly and report their compliance to the AG. Serious irregularities are also brought to the notice of Heads of Department by the office of the AG (Audit). A half-yearly report of pending inspection reports is sent to the Secretary of the Department to facilitate monitoring of the audit observations in the pending IRs.

Out of Inspection Reports issued up to March 2001 to 15 Divisions, one each of Special Land Acquisition office and Quality Control Division, two Superintending Engineers Offices and two Chief Engineers offices (total 21 Offices) of Minor Irrigation Department, 608 paragraphs relating to 167 IRs remained outstanding at the end of June 2001. Of these 43 IRs containing 82 paragraphs had not been settled for more than 10 years. Year-wise position of

<sup>1</sup> Construction of sluice, walkway to sluice, revetment and canal work.

<sup>2</sup> Contractor executed construction of sluice and revetment before abandoning the work.

the outstanding IRs and paragraphs are detailed in the Appendix 4.10. A review of the pending IRs revealed that the response of the department for submitting the replies was very poor and even where submitted were incomplete as a result of which these could not be settled. Even the initial replies, which were required to be received from the Head of offices within six weeks from the date of issue were also not received in respect of 15 IRs issued between July 2000 and March 2001. Due to failure of the Head of the units to furnish replies to IRs, within the stipulated time, the following serious irregularities commented upon in these IRs had not been settled as of September 2001.

		(Rupe	es in crore)
Sl No	Nature of Irregularities	No of Paragraphs	Amount
Ι	Extra/excess/infructuous/ wasteful/ unauthorised/ irregular expenditure/ machinery / spares lying idle	310	150.45
II	Irregularities in respect of acceptance of tenders/ quotations	2	2.74
III	Losses due to deterioration, shortages, thefts etc awaiting regularisation	11	6.74
IV	Irregular Expenditure on purchase / purchase of defective machinery	24	9.90
V	Other miscellaneous Irregularities	17	20.17

A review of the IRs which were pending due to non-receipt of replies in respect of Minor Irrigation Department revealed that the Heads of Offices and the Chief Engineers did not send any reply to a large number of IRs/ paragraphs indicating their failure to initiate action in regard to the defects, omissions and irregularities pointed out in the IRs of the AG. The Secretary of the Minor Irrigation Department, who was informed of the position through half-yearly reports, also did not ensure that the concerned officers of the department take prompt and timely action. The inaction against the defaulting officers facilitated the continuation of serious financial irregularities and further loss to Government.

It is, therefore, recommended that Government should examine the matter and ensure that procedure exists for (a) action against the officials who failed to send replies to IRs/Paras as per the prescribed time schedule, (b) action to recover loss/outstanding advances/ overpayments in a time bound manner.

# PUBLIC WORKS DEPARTMENT

# COMMUNICATIONS AND BUILDINGS

# 4.11 Construction of bridge in disregard of heritage site

### Bridge planned across Tungabhadra river flowing through two heritage sites without consideration of its impact on these sites led to intervention by UNESCO and stoppage of work and consequent wasteful expenditure of Rs.3.75 crore

The towns of Hospet and Gangavathi, which are business centres in Koppal district, are 12 kms apart *via* Hampi and Anegundi. But, in the absence of a bridge across the River Tungabhadra flowing between Hampi and Anegundi, the distance between the two towns is 48 kms. Hampi is a historical site and some of its monuments are on the 'World Heritage List' of UNESCO, since 1988.

To connect the two towns for promoting tourism as well as to give greater

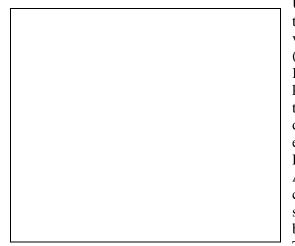
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access to the people to the local arkets. Government dministratively approved November 1993) the onstruction of bridge а onnecting Hampi and Anegundi. Chief Engineer, he ommunication and Buildings North). Dharwad (CE) chnically sanctioned the stimate for Rs.2.50 crore, in eptember 1995. The approach bad for the approved bridge, owever, passed through the ncient monuments of Talwarghatta Gate and Nandi

*Mantapa*. Public Works Department (PWD) did not consult the Archeological Survey of India (ASI) before deciding the site for the bridge. The main reason for the CE approving this particular site was that it was nearest to the point from where the river was crossed by boat.

The work was awarded (April 1997) to contractor 'A' on his tender based on his alternate design of cable-stayed bridge, on a lumpsum contract of Rs.3.20 crore with stipulation to complete the work within 24 months. While the work was in progress, the PWD sought the permission (September 1997) of the ASI to shift the *Nandi Mantapa*. ASI intimated the PWD to contact the Department of Archaeology and Museums (DAM) and also advised DAM to ensure that the *Nandi Mantapa* was not dismantled by PWD. DAM shifted the *Mantapa* at a cost of Rs.4 lakh.

The proposed bridge across a designated heritage site came to the notice of



UNESCO and, at their request, the representatives of INTACH visited Hampi and requested (August 1998) Government of Karnataka not to allow any kind of tarmac road or thoroughfare within the designated heritage area as it endangered these 'World Heritage Monuments'. The ASI while endorsing the of **UNESCO** concern suggested (June 1999) that the bridge be shifted upstream. Thereafter, it was decided to

provide alternate alignment for the approach road to protect the *Talwarghatta Gate* from possible damage due to movement of heavy vehicles. The Government sought (August 1999) a 'No Objection Certificate' from the ASI for this new approach alignment, which is still awaited (January 2001).

The Secretary, Department of Kannada and Culture directed (October 1999) the CE to stop further construction of bridge due to the concern expressed by UNESCO representatives during their visit to Hampi (October 1999 and February 2000) who had put Hampi in the 'List of World Heritage Sites in Danger'.

The Cabinet set up a 'Task Force', headed by the Additional Chief Secretary to Government of Karnataka, in February 2000 and on its recommendations it was decided (May 2000) to dismantle and relocate the bridge. The decision was communicated to UNESCO in June 2000. Accordingly, the work was stopped in June 2000. By this time Rs.3.75 crore was spent on this work.

A Public Interest Litigation (PIL) Writ Petition filed by the historians and intellectuals against construction of bridge and another PIL filed by the local residents to continue with construction of bridge are pending (August 2001) before the High Court.

Thus, failure of the PWD to take into account the impact of the proximity of the proposed bridge to a 'World Heritage Site' and to consult the concerned authorities before selecting the site of the bridge led to stoppage of construction of bridge and resulted in wasteful expenditure of Rs.3.75 crore.

The matter was referred to the Secretary to the Government in February and May 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

# 4.12 Three years delay in construction of office complex

### Failure to supply designs in time to the contractor resulted in delay and escalation of cost by Rs.21.36 lakh. Office expenses Rs.14.38 lakh irregularly debited to the work by the Division

The construction of the 5<sup>th</sup> stage of Multi-Storied Building complex in Bangalore at a cost of Rs.80 lakh was technically sanctioned by the Chief Engineer, Communication and Buildings, Bangalore (CE) in January 1994. The civil work costing Rs.56.60 lakh (revised to Rs.62.24 lakh due to additional quantities) was entrusted (May 1994) to contractor 'A<sup>1</sup> at his

<sup>1</sup> M/s Renuka constructions.

tendered rate of Rs.71.18 lakh. The work order was issued and the site was handed over in May 1994 for completing the work by February 1996.

During excavation for foundation, loose silty sand was found in the northeast corner of the site. Based on the report of the Tor Steel Research Foundation, the technical consultant firm, (September 1994), the contractor was asked to densify the soil by providing 100mm sand piles, which the contractor executed. Department abnormally delayed issue of other designs to the contractor and supplied designs relating to ground floor only between October 1994 and December 1995. The designs relating to first and second floor were not issued before the expiry of scheduled date of completion of contract (February 1996).

Due to delay in furnishing the designs by the Chief Engineer the contractor stopped the work (June 1996) after executing work valued at Rs.26.68 lakh and offered to complete the balance work at 30 per cent above his quoted rate. The CE did not accept the offer of the contractor and rescinded the contract (December 1996) at the risk and cost of the contractor.

The balance work costing Rs.44.50 lakh was entrusted to another contractor (June 1997) and got completed (March 1999) at a cost of Rs.65.86 lakh.

Scrutiny revealed that the cost escalated due to recasting of balance work based on SR 1996-97 and tender percentage (+14.09%) quoted by second agency. As the balance work was entrusted to second agency during June 1997 after rescinding the work from first agency during December 1996, the change of SR was the main reason for escalation of the cost. No responsibility was fixed for the same.

Thus, had the offer (30 per cent above tendered rate which works out to Rs.57.85 lakh) of contractor 'A' been accepted, the cost of work would have been less by Rs.8.01 lakh.

Failure to supply the designs in time resulted in avoidable extra expenditure of Rs.21.36 lakh (Rs.65.86 lakh *minus* Rs.44.50 lakh) apart from the delay in completing the work due to retender.

Further as against a lumpsum provision of Rs. 1.94 lakh in the estimate towards contingency, the department debited Rs.14.38 lakh towards purchase of stationery, computer and furnishings etc., which was not a legitimate charge on the work and thus irregularly inflated the cost of the work.

The matter was referred to the Secretary to the Government in May 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

# NATIONAL HIGHWAYS

### 4.13 Avoidable payment of compensation

### Compensation of Rs.6 crore was paid to a contractor due to delay in handing over the site for widening and strengthening of km 8 to km 33 of Bangalore-Hosur road National Highway 7

With a view to widening and strengthening the Bangalore-Hosur stretch of National Highway 7, Government of Karnataka approved a proposal of making the Bangalore-Hosur Road (km 8 to km 33) a four-lane Highway. The work was to be funded by Asian Development Bank (ADB). Estimated cost of the work was Rs.48.11 crore and time for completion was 48 months. The work was completed in June 1998 at a total cost of Rs.75.69 crore.

Scrutiny revealed that the ADB Fact-finding Mission had impressed upon the State Government (February 1990) the necessity of relocation of utilities viz., telephone poles, electricity poles, water pipes, buildings, repeater station etc., before awarding the work. The Ministry of Surface Transport (MOST) also reiterated (November 1990 and May 1991) early shifting of the utilities to avoid delay in completion of the work. Thus, the Department was aware of the obstacles but they did not clear these obstacles before the work was entrusted (April 1992) to a Construction Company (Company) at their tendered rate of Rs.40 crore with stipulation to complete the work by April 1996.

Since the award of work, the Company repeatedly requested for continuous obstruction-free stretches to facilitate execution as per the approved work programme. However, the working area could not be made free of obstructions and hence the work was delayed. Obstructions in some reaches were cleared as late as in 1998. These problems led to grant of extension up to June 1998, idling of resources as well as increasing overhead costs for the Company. The Company submitted claims for Rs.7.13 crore to the Government periodically between October 1993 and December 1997 for delay in handing over obstruction free stretches but these were rejected. The Company went in for arbitration (February 1998) in accordance with clause 67.1 of the agreement.

The arbitrators awarded (April 1997) a compensation of Rs.1.34 crore for the delay up to September 1993. However, the impediments continued beyond September 1993 and as the dispute was not settled amicably, the matter was again referred by the Company to the Committee of Conciliators (February 1998) constituted under the Arbitration and Conciliation Act, 1996. The Company put forth claim (April 1997) for a compensation package amounting to Rs.5.79 crore on account of loss of time and related overheads, depreciation, interest charges on the net fund flow and fixed charges due to extended stay based on total time overrun of 27 months beyond the contract period.

The Committee of Conciliators opined (December 1999) that major cause for delay in execution of work was non-availability of site and as the department had not discharged its obligation of providing encumbrance free land, the extra cost on account of time over run was required to be compensated as per clause 42.2 of the contract. The Committee of Conciliators fixed the net time overrun at 17.68 months and awarded (December 1999) a compensation of Rs.4.63 crore (including the compensation of Rs.1.34 crore awarded by erstwhile Arbitrator) along with interest. The department paid (December 1999) Rs.4.66 crore (Rs.3.29 crore–principal *plus* Rs.1.37 crore–interest) adjusting the compensation already paid (Rs.1.34 crore).

Thus, failure of the department in re-locating the utilities before entrusting the work resulted in avoidable payment of compensation of Rs.6 crore.

The matter was referred to the Secretary to the Government in February and May 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

# WATER RESOURCES DEPARTMENT

# 4.14 Misappropriation of Government money

### Failure to follow the codal provisions and to exercise proper checks by the SE/EE and collusion of Sub Treasury Officer resulted in misappropriation of Rs. 96.09 lakh by an FDA in a Division during 1988-89 to 2000-2001

Scrutiny (February 2001) of the accounts of the Executive Engineer, Irrigation Projects Construction Division No.2, Korahalli (camp Afzalpur) (EE) revealed that the First Division Assistant (FDA) of the division fraudulently withdrew Rs.99.13 lakh between December 1988 and January 2001, through 497 bills (as detailed in Appendix 4.11) relating to salary, leave salary, festival advance and contingencies but accounted for only Rs.3.03 lakh in the divisional records and misappropriated Rs.96.09 lakh. The FDA was entrusted with the job of presentation of bills and obtaining cheques from treasury and encashing these from the bank, preparation and forwarding of monthly expenditure statement to Controlling Officer. Though he was not responsible for writing the Cash Book, he also did this work.

The modus operandi of the fraud was as follows:

(i) The FDA prepared fake salary/leave salary bills with fake names of officials and created fake sanction orders with forged signature of the drawing officer and presented these at the treasury.

- (ii) These bills were presented by the FDA either separately or in place of bills already signed by the Drawing Officer for payment by forged attestation of the Drawing Officer.
- (iii) FDA changed the amounts of bills by forged attestation of the Drawing Officer in the bill presentation slips (token) sent to the treasury.
- (iv) FDA himself drew the amounts of the bills from the bank by presenting cheques under forged signature of the drawing officer.

Modus operandi of short accountal of money was as follows:

The FDA was entrusted with the work of preparation of bill, drawing the bills and maintenance of the Cash Book but the disbursement was not entrusted to him.

As per Article 346 (3) of KFC the bill should be presented along with the bill presentation slip in Form KTC 65 A. This form has 3 parts:

Parts 1 and 2 contain information regarding nature of bill, amount of bill, bill number, date of bill and acknowledgement by the treasury clerk.

Part 3 contains, apart from the details contained in Part 1, name of the messenger to whom the cheque is to be handed over with the signature of the messenger duly attested by the drawing officer.

The 3 parts of the bill presentation form are to be presented to the treasury along with the bill. The treasury official acknowledges receipt of the bill in Part 1 and 3 and retains Part 2. The cheques have to be obtained by the messenger on surrendering Part 3 of the bill presentation form.

However, Part 1 of the bill presentation form was never taken in these cases to the treasury. The Director of Treasury, Bangalore, confirmed this procedural lapse (June 2001).

FDA, in the instant cases did not alter the amount of bill in Part 1 of the bill presentation form but altered the amounts in Parts 2 and 3 of the bill presentation form under forged attestation.

Since Part 1 of the bill presentation form was never taken to Treasury by the FDA and remained unacknowledged, the amount of bill (as passed by the Drawing Officer) remained unaltered and only this amount was taken to Cash Book.

The Karnataka Financial Code (KFC) prescribes that all monetary transactions should be accounted for in the Cash Book as soon as they occur under proper attestation of the Head of office as a token of check. The Drawing Officer is also responsible for obtaining details of encashment of bills from the Treasury and verifying the same with those accounted for in the Cash Book. In terms of Article 346 of KFC, the Controlling Officer is responsible for reconciliation of the departmental figures each month with those incorporated in the books of the Accountant General (A&E) and to furnish a certificate of reconciliation.

Article 346(3) of KFC stipulates that the bill presented to Treasury should invariably be accompanied with Bill Presentation Slips (Form KTC 65A-containing 3 Parts).

Scrutiny revealed that these Codal Provisions were disregarded by the EE and SE. The EE did not ensure acknowledgement of Treasury in Part 1 of Bill Presentation Form and failed to exercise necessary checks with regard to encashment made at the time of attesting entries in the Cash Book. In some instances, claims were accounted for as receipt in the Cash Book much earlier to their encashment. The EE did not cross check the amount mentioned in the Cash Book with the figures mentioned in the monthly expenditure statement obtained from the Sub-treasury Officer while forwarding the same to the Controlling Officer. Thus, extensive subversion of procedure by the FDA was not noticed as the EE disregarded the prescribed Codal Provisions in prompt and proper accountal of encashment orders/ cheques received from the Treasury.

The FDA was directly reporting to Manager/Superintendent. The Manager/Superintendent was to supervise his work. The work of preparation of bill, presentation of bill to Treasury, obtaining the cheque and its encashment was the duty of the FDA. However, writing of the Cash Book though entrusted to other accounts staff was also allowed to be done by FDA in addition to his own duties since 1988. The perpetuation of the fraud was facilitated by the fact that the necessary supervisory checks were not exercised by the Manager/Superintendent/EE and the official was allowed to do the entire work from preparing bills to writing of the cash book.

Further, the FDA was allowed by the CE to continue in the same office for more than 12 years though as per the transfer policy of the Government an official was to be transferred once in 3 to 5 years from a place.

The Superintending Engineer, Irrigation Project Construction Circle, Gulbarga (SE) failed to carry out monthly reconciliation of expenditure figures furnished by the EE of the division with the figures booked by AG (A&E) and furnished certificate of reconciliation in a routine manner thus abetting the mis-appropriation.

The Accounts Superintendent scrutinises all the bills and supervises the work of the staff of the accounts section so far they relate to work expenditure. Since this related to the contingent expenditure, Office Manager/ Superintendent was to oversee the writing of the Cash Book. However, though the Divisions and Sub divisions were periodically audited by the SE/CE, they also did not notice the misappropriation.

Further, the Sub-treasury officer (STO) also failed in his duty to:

(i) object to the unauthorised corrections made in the bills, tokens and did not bring them to the notice of the Divisional Officer.

- (ii) insist for presentation of counter foil of the token and tally it with the bills in order to verify the correctness of the amount indicated in the bills.
- (iii) verify the genuineness of the signature of Executive Engineer, on the bills before passing them for payment.
- (iv) disregarded frequent alterations, changing the designation of the Drawing Officer from EE to AEE, made by the FDA in the day book, without attestation, when it was given to him for collecting the remittance and encashment details.

In view of such consistent and extensive omissions, the possibility of collusion at sub-treasury was fairly strong.

The EE confirmed the facts pointed out in audit and the Engineer-in-Chief, Water Resources Development Organisation, Bangalore placed the FDA under suspension (February 2001). However, no action has been initiated either for criminal proceedings or to conduct a departmental enquiry (May 2001). Further, no action was also initiated against the Drawing Officers and the Sub Treasury Officers whose failures directly contributed to the perpetration of the fraud and its non-detection for long period.

The fact of misappropriation, detected by the audit party during February 2001, was brought to the notice of the Minister for Major and Medium Irrigation by the President, District Agricultural Society, Gulbarga on 28 February 2001. The Minister immediately ordered (February 2001) for a detailed investigation by the Vigilance Cell of the Water Resources Department. The Vigilance Cell submitted its report (May 2001).

The matter was referred to the Secretary to the Government in March and May 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

# **KARANJA PROJECT**

### 4.15 Unnecessary and hasty purchase of material

### Misery of villagers in Ranjol Kheni village in Karanja project area could not be alleviated though Rs.71.60 lakh was spent on procuring the material/civil works, as the construction of transit sheds was not completed in 2 years.

Ranjol Kheni village in Bhalki taluk, in the Karanja project area (Bidar), is under partial submergence being located within 100 to 150 mtrs of the *Nagarhalla Nala*. Families living in this area have to deal with unhealthy living conditions especially during the monsoons due to seepage and stagnant water, which spawns disease of epidemic proportions. With a view to alleviating their misery, the Irrigation Department conducted a survey and submitted a proposal to Government for relocating the inhabitants of the village, at a cost of Rs.21 crore, in March 1997. The project is yet (July 2001) to be approved by the Government.

On a request from the villagers, the Chief Engineer, Irrigation Projects Zone, Gulbarga (CE) ordered (September 1999) that badly affected 125 families living in the low-level area be shifted to transit sheds pending relocation. It was proposed to construct 25 transit sheds, having 5 tenements each, at a total cost of Rs.75 lakh.

Scrutiny revealed that the Divisional Officer procured tubular trusses and GI sheets<sup>1</sup> costing Rs.45.68 lakh through short term tenders from 4 different firms in March 2000. Civil works were entrusted to 3 contractors (May 2000) for a total estimated cost of Rs. 75 lakh for completing the work by July-August 2000. SE sanctioned purchase of this material beyond his financial powers and without approval of programme of works for the years 1999-2001. The civil portion of work is yet to be completed though Rs. 25.92 lakh has been spent and as such the tubular trusses and GI sheets procured have not been utilised. Thus the urgency shown by the Department was confined only to procuring material and stores for the work while the execution of work was neglected.

It was further observed in audit that:

- The work costing Rs.3.12 lakh was split up to keep these within the competence of the Executive Engineer and for this purpose, construction of sheds was bifurcated into civil works and erection of tubular trusses/fixing GI sheets.
- Procurement of material was made in March 2000 far in advance of the execution of civil works.
- Though short-term tenders were invited for civil works on the plea of urgency of work, the work remained incomplete as of September 2001.

Non completion of the civil works within the stipulated period and unnecessary purchase of trusses and GI sheets far in advance of requirement bypassing the normal tender procedure resulted in blocking up of Rs.71.60 lakh without speeding up the rehabilitation work.

The matter was referred to the Secretary to the Government in March and July 2001 and was followed by reminder in August 2001. However, no response was received from him (September 2001).

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<sup>&</sup>lt;sup> $^{1}$ </sup> Cost of tubular trusses – Rs.84450 each and GI sheets – Rs.84752 per shed.