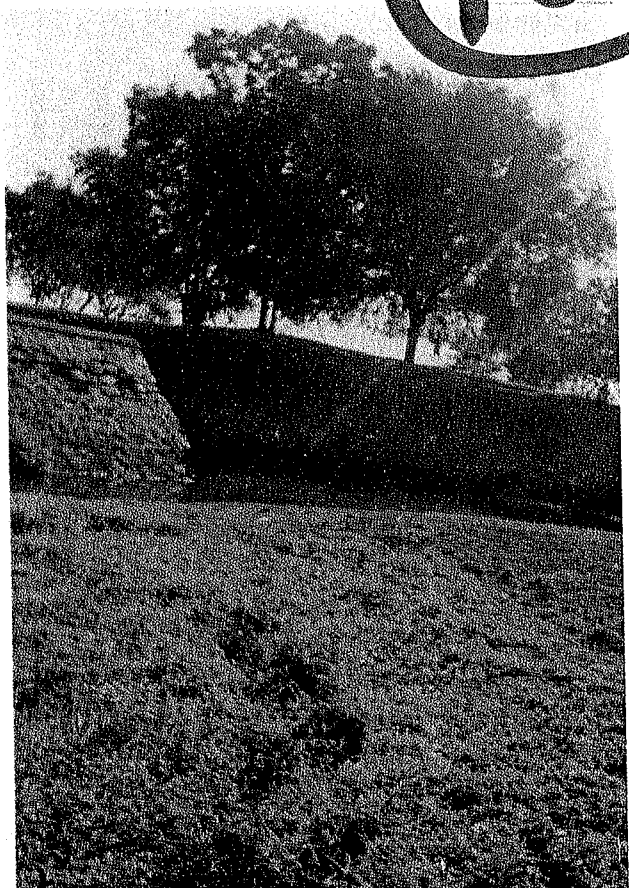


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Broken portion

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BROKEN DAMS

Report No. 8 of 2002

42% funds in broken dams
washed away
(18 out of Rs. 43 Lakhs lost)

plus

leaking dams, absence of
shutters causing loss of
irrigation.

Report prepared by T.R.T.I., Pune

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BROKEN DAMS

Small dams are suitable for hilly areas. They are low cost, low maintenance structures with limited command areas. They are important for providing irrigation in the hills for tribal/marginal farmers. The cost of each structure ranges from Rs. 1 lakh to Rs. 5.5 lakhs in the 22 small dams surveyed for this study.

This minor irrigation work is implemented by the Rural Development and Water Conservation Department and includes small dams (Kolhapur type), percolation tanks, lift irrigation schemes etc. and the total budget in 2001-2002 was Rs. 2387 lakhs.

22 recently constructed dams were surveyed of which only 6 dams were constructed prior to 1999. Out of 22 dams surveyed, 1 was found to be missing and 5 were broken.

The total expenditure on these 22 dams was Rs. 43 lakhs of which Rs. 18 lakhs was spent on the 6 missing/broken dams which has caused a loss of 42%.

The loss of 42%, mentioned above, does not include the irrigation potential not utilized because of defective construction leading to leaking dams and because of shutters not being provided.

The details of the 22 small dams surveyed are indicated below.

Name of Tahsil	Year of completion	No. of dams	Spent	Missing	Broken	Leakage	Without shutter
Nandurbar	1998-1999	2	2.16	-	-	1	2
	1999-2000	5	13.48	-	2	-	5
	2000-2001	4	12.12	-	-	2	4
	2001-2002	3	9.05	-	-	1	3
Akrani	1994-1995	1	3.08	-	1	-	1
	1995-1996	1	-	-	-	-	1
	1997-1998	2	-	-	-	-	2
	2000-2001	1	1.14	1	-	-	-
	2001-2002	3	6.91	-	2	-	3
	Total	22	43.24	1	5	4	21

(A complaint had been received in this institute regarding 7 dams which were included in the survey of 22 dams. Out of the dams found broken, one was from these seven.)

Thus 10 dams were broken, missing or badly constructed which comes to 45% of the total dams constructed.

The 21 existing dams did not have shutters and therefore there was no water storage and consequently no irrigation benefit. The entire expenditure of Rs. 43 lakhs in 19 villages was wasteful.

It will be seen that the 6 dams that were missing/broken were recently constructed. 5 dams were constructed after 1999 as indicated below. The life of the dams is meant to be 65 years.

Name of the dam	Year when the construction was completed	Status	Expenditure (Rs. in lakhs)
Dhandhani	1999-2000	Broken	3.54
Tilali	1999-2000	Broken	5.54
Kusamveli	2000-2001	Missing	1.01
Ambari	2001-2002	Broken	2.92
Achappa	2001-2002	Broken	2.13
Survani	1994-1995	Broken	3.07
Total			18.21

The information given by the department shows that 88 hectares are to receive irrigation from the 22 dams but the survey showed that villagers stated that no irrigation had been received. Even in the cases where the construction was found to be satisfactory, the absence of shutters/gates prevented the storage of water and there was no irrigation.

RECOMMENDATIONS

- A physical audit to be carried out by the audit department should be introduced. Exclusive reliance on a paper/voucher audit is inadequate and has bred corruption.
- However till this reform in the audit system is implemented, an independent agency should do the test physical audit (through actual physical verification of a sample of works).

- Physical test checking of a few works should be prescribed for senior bureaucrats like Project Officers, Additional Tribal Commissioners, Secretaries etc.
- For works done by the government department the corrupt officials should be prosecuted. Where corruption is so evident, departmental enquiries would not suffice.
- This institute should be empowered to obtain copies of records from all government departments to conduct studies/surveys. Government should issue instructions to all departments immediately.
- These findings should be circulated throughout the state through the media so that implementing agencies could see a deterrent against corruption and could also attempt to implement the recommendations.
- For other recommendations regarding policy issues please see the other reports.
- Selection of sites for small dams should be done in consultation with the villagers. The final selection could be done by the technical department on the basis of technical and financial norms.
- Physical test checking of small dams all over the state should be done immediately.
- Water user groups consisting of the beneficiaries should be formed and trained in water management, and in the maintenance and use of the small dams. Once the irrigation starts it is expected that these groups would be able to take care of minor repairs. This would be a better arrangement than expecting the gram panchayat to look after the dams that benefit only a few farmers. Formation and training of water user groups is being done in other countries with very good results. However in the dams surveyed the question of groups becoming active does not arise because there has been no irrigation.

Statement No. 1

The statement showing the details about the small dams in Nandurbar & Akrani Tahsils in Nandurbar District.

Sr. No	Location	Year of starting work	Year of completing work	Total budget	Total expenditure	Total square			Area to be irrigated (ha)
						Length	Hight	Width	
Nandurbar Tahsil									
1.	Asane 1	1999-2000	1999-2000	1.25	1.12	21.00	3.55	1.20	2.00
2.	Asane 2	1999-2000	1999-2000	0.83	0.65	25.00	2.80	1.00	1.89
3.	Asane	1999-2000	1999-2000	1.38	1.16	27.00	1.95	1.30	2.00
4.	Dhandhane	1999-2000	1999-2000	3.67	3.54	45.00	4.25	1.00	4.00
5.	Tilai 1	1999-2000	1999-2000	6.35	5.57	66.00	4.20	1.40	16.00
6.	Ngaon	1999-2000	2000-2001	4.45	4.07	44.00	5.05	1.00	6.50
7.	Khokrale	1999-2000	2001-2002	0.94	0.71	43.00	3.15	1.20	1.00
8.	Kolda	1999-2000	2000-2001	4.17	2.70	48.00	4.50	1.00	9.00
9.	Khodasgaon	1999-2000	2000-2001	3.50	3.57	45.00	4.80	1.00	16.00
10.	Lonkheda	1998-1999	2001-2002	5.15	4.32	75.00	5.10	1.50	9.00
11.	Gujar Bhavali	1999-2000	2001-2002	2.96	2.93	74.00	3.50	1.00	2.50
12.	Wavad	-	1998-1999	-	1.62	-	-	-	-
13.	Indrahatti	-	1998-1999	-	-	-	-	-	-
14.	Bhone	-	2000-2001	-	-	-	-	-	-
Akrani Tahsil									
15.	Ambari	2001-2002	2001-2002	2.92	2.92	37.00	1.75	1.50	

Sr. No	Location	Year of starting work	Year of completing work	Total budget	Total expenditure	Total square			Area to be irrigated (ha)
						Length	Hight	Width	
16.	Kusumveri	2000-2001	2000-2001	1.14	1.01	18.00	3.80	1.50	4.25
17.	Achapa	2001-2002	2001-2002	2.13	2.13	25.80	2.15	1.40	
18.	Talai	2001-2002	2001-2002	1.86	2.15	24.00	3.80	1.50	6.50
19.	Survani	1994-1995	1994-1995	3.08	3.07	25.00	3.50	1.50	3.50
20.	Survani	1996-1997	1996-1997						
21.	Mundalvad	1997-1998	1997-1998						
22.	Mundalvad Big	1997-1998	1997-1998						
	Total			45.78	43.24				

Note : The information about small dams quoted at Sr.No.1 to 11 & 15 to 18 provided by the Department and the complaint about small dams quoted at Sr.No.12 to 14 & 19 to 22 had been received.

Statement No. 2

Statement showing the name of informer & contractor and status of dams.

Sr. No.	Location	Name of the informer	Status	Name of the contractor
1.	Asane-1	Shri Nathu Daga Patil, villager Shri Dadabhai Pandit Patil, villager	Shutters not fixed, no storage, no irrigation.	Shri Sambhaji Thakre, At-Khograde, Tal-Nandurbar
2	Asane-2	Shri Nathu Daga Patil, villager Shri Daulat Barku Patil, villager	Shutters not fixed, no storage, no Irrigation.	Shri R. D. Patil, At Post Tal Nandurbar
3.	Asane	Shri Dadabhai Pandit Patil, villager Shri Nathu Daga Patil, villager	Shutters not fixed, no storage, no Irrigation.	Shri Raju Patil, At Post Blavet, Tal-Nandurbar
4.	Dhandhane	Shri Sitaran Dhana Sonawane, Sarpanch Bhimsing Dhanasing Padvi, villager	Broken	-
5.	Tilali	Shivaji Narayan Patil, villager	Broken	Shankar Gajmal More, At Post Tilali, Tal-Nandurbar, Z.P. Member Ex.ZP Chairman.
6.	Nagaon	Nanabhau Uttam Patil, villager Mahadupuri Anandpuri Gosavi, Ex-Member, Grampanchayat	Foundation is not good. Water has sprang.	Shri Gulabsing Rajput At Post Dhandhane, Tal-Nandurbar
7.	Khokrale	Dnyaneshwar Narsing Rajput, Dy. Sarpanch	Foundation is not good. Water has sprang no storage no irrigation.	Shri Anil Patil At Post Bhaler, Tal-Nandurbar
8.	Kolda	Shri Sharad Bhila Patel, villager	Foundation is not good. Water has sprang no storage no irrigation.	-
9.	Khodasgaon	Shri Jamsing Rupa Naik, villager	The shutter not fixed, no storage no irrigation.	-
10	Lonkheda	Subhasha Kasinath Patil Ex Dy. Sarpanch	No storage no irrigation.	-

Sr. No.	Location	Name of the inforer	Status	Name of the contractor
11	Gujar Bhavali	Shri Nathu Ramchandra Padvi, villager Ramesh Fulsing Naik, villager	The shutter not fixed, no storage no irrigation.	-
12	Wawad	Navalsing Dagesing Girase, Member of Grampanchayat	The shutter not fixed, no storage no irrigation.	Shri Sudam Vedu Beldar, At Chopade, Tal-Nandurbar.
13	Indrahatti	Rafilal Janya Bhil, Sarpanch	Foundation is not good, water has sprang, no storage, no irrigation.	-
14	Bhone	Chilya Bhilya Thakre, Sarpanch	Shutters not fixed, no storage, no irrigation.	-
15	Ambari	Shri Saradar Joma Pawara, Sarpanch Shri Ganapat Pandu Pawar, villager	Shutters not fixed, no storage, no irrigation.	Mr.Hire, Engineer, Panchayat samittee Minor Irrigation Dhadgaon, ZP Nandurbar.
16	Kusamveri	Shri Zinga Mallya Pawara, Ex Police Patil	Missing	Panchayat Samitee Minor Irrigation Dhadgaon
17	Achapa	Shri Dongarshing Dokya Pawara, Police Patil	Broken	Shri Hire, Musa and Pandare Panchayat Samittee Dhadgaon
18	Talai	Shri Moragya Rama Vasave (Labour) villager	Shutters not fixed, no storage, no irrigation.	Shri R.B.Patil, Engineer, Minor Irrigation Dhadgaon
19	Survani	Shri Ravindra Parashi Padvi, ZP Member, Nandurbar.	Broken	Panchayat Samitee Minor Irrigation Dhadgaon.
20	Survani	Shri Hurata Rota Padavi, Ex.Gramapanchayat Member	Broken	Shri Salave, Engineer, Panchayat Samitee Minor Irrigation Dhadgaon
21	Mandavad Small	Shri Shivanya Motya Valavi, villager	Shutters not fixed, no storage, no irrigation.	Shri -----
22.	Mundavad Big	Shri Shivanya Motya Valavi, villager	Shutters not fixed, no storage, no irrigation.	Shri -----

Annexure 1

RESEARCH TEAM

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