Rehabilitation-The Problem of Dam Affected Displaced People: A Study of Warna River Basin, Maharashtra

Jagdish B. Sapkale

Assistant Professor, Department of Geography, Shivaji University, Kolhapur, Maharashtra, India.

Abstract: It is true that dams and reservoirs provide economic and social benefits that contributes drastically to the management of water, which is becoming an inadequate resource. Besides this, these dams and reservoirs may have undesirable environmental and social impacts. The most challenging social impact of dams is the displacement of native people. This is one of the worst impacts of the dam construction on communities, people, whole families, that have been forced to leave their homes and relocate somewhere else. Therefore, an increasing demand for detailed and accurate assessments of the socio-economic impacts may be expected.

Keywords: Rehabilitation, Questionnaire Survey, Level of Development, Composite index, Education, Occupation Status

1. Introduction

The most challenging social impact of dam is the displacement of native people. After resettlement, the displacement of native people have faced many social problem such as disturbance of family relationship, poor drinking water facilities, lack of infrastructure amenities, scarcity of educational, medical, road and transportation, electrical facilities, absence of public toilet facilities, deficiency of market centre and lack of water for irrigation. The disturbed people are getting the remuneration, but the facilities are not proper. At some places the affected population have provided the unfertile lands, their standard of living is decreased.

Therefore, the detail study of socio-economic development for rehabilitated people and impact of dam have carried out using selected indicators like-educational attainment, occupational structure, family annual income, types of houses, types of farmers, irrigation sources, soil type and cropping pattern. The survey has carried out with the help of questionnaire that has formulated on account of all the relevant aspects mentioned above, 10% sample of of household are considered for present research work. Overall 21 villages Tung (Bhomiv), Bagani (Nandoli), Kavatepiran (Shidheshwar), Kini (Karade), Chavare (Karade), Peth Wadgaon (Sonarli). Aashte (Aamboli), Bhadhurwadi (Chandoli Buk.) Latavade (Aamboli), Aarala (Chandoli Budruk), Mangale (Nandoli), New Pargaon (Karade), Kasabe Digrag (Zalambi), Rethare (Aamboli), Chikurde (Khundalapur), Peth Wadgaon (Tambave), Aarle (Karade), Kodoli (Wadi Hudub), Khumbhoj (Dhurgewadi), Satve (Durgewadi), Kakhe (Karade) have considered for detailed study. The study assessed the socio-economic conditions of the affected population and collected the basic information and their problems.

2. Research Methodology

Present Study has identified that, whether Irrigation project

scheme has provided the improved living conditions and unbiased distribution of the benefits of the project to the population. There is an urgent requirement for a Social Impact Assessment for Chandoli dam therefore a comprehensive socio-economic study and impact of Dam has been carried out. Indicators for socio economic status of rehabilitated population like - income from agriculture, annual income of household, concrete houses, road facilities, school/education facilities, medical facilities, drinking water facilities etc. have considered. In this connection information on following aspects has been collected.

- 1)Opinion of the dam affected population on the resettlement aspects and its facilities after displacement.
- 2)Compensation package for the affected population
- 3)Migration patterns into and out of the project area.
- 4)Impact on change in occupational pattern.

The collected socio-economic data, was carried out so as to undertake preliminary planning. The data base have been organised in such a way that can be used in GIS Softwares.

Finally in terms of primary data, the information and statistical data was generated from the Warna river basin and from the displaced settlements. Total 21 villages has selected for Socio economic survey of rehabilitation villages The details of the villages are shown in table no. 1. From each village 10 % households/families had been considered for questionnaire survey (Appendix- A). Questionnaire was formulated on account of all the relevant socio-economic aspects. The methodology also includes: individual household case study and institutional analysis. Door to door house hold survey for selected sampled households were carried out.

Research Design and Data Analysis : The generated data has tabulated and systematically processed and interpreted. Most of the analysis have been carried out based on the relevant statistical tools such as Percentage, Averages, quartiles and weightages/scores. The analysed data for various parameters collected from selected villages (i.e. 21 villages) were processes and graphs/maps were prepared. The composite

index for the level of development assessed on the basis of various parameters like Education for 5 to 10^{th} standard, 12^{th} , Graduate, Post Graduate; Farmers,Self Employment, Farm Worker, Job, Income categories Rupees : Below 10,000 ; 10,000 to 25,000 ; 25,000 to 50,000 ; 50,000 to 1,00,000 ; Above 1,00,000 ; Pakka RCC / Concret houses; Bagayati land; River; Well; Borewell; Canal; Project; Motors; Borewell; Diesel Pump; Other.

Table 1: 21 Rehabilitated villa	ges for socio-economic impact
stu	dy

Sr.	Name of villages	Questionnaires/No. of					
No.	Ivanie of villages	families surveyed					
1	Peth Wadgaon (Sonarli)	45					
2	Bahadhurwadi (Chandoli Buk.)	7					
3	Peth Wadgaon (Tambave)	7					
4	Aarala (Chandoli Budruk)	11					
5	Chavare (Karade)	10					
6	Rethare (Aamboli)	23					
7	Kakhe (Karade)	39					
8	New Pargaon (Karade)	5					
9	Mangale (Nandoli)	5					
10	Aarle (Karade)	4					
11	Satve(Durgewadi)	3					
12	Kini (Karade)	3					
13	Latavade (Aamboli)	8					
14	Tung (Bhomiv)	8					
15	Kavatepiran (Shidheshwar)	8					
16	Kasabe Digrag (Zolambi)	8					
17	Bagani (Nandoli)	10					
18	Kodoli (Wadi Hudumb)	12					
19	Aashte (Aamboli)	5					
20	Chikurde (Khundalapur)	21					
21	Kumbhoj (Dhurgewadi)	40					
	Total	282					

3. Result and Discussions

According to Webber, McDonald Brooke and mccully (1996) India has a problem regarding the resettlement schemes that occurs due to dam construction. When construction of dam starts, then the process of resettlement also starts. In some area it has documented that the problem of resettlement becomes a critical problem since for 2-3 decades [1].

"When people are forcibly displaced, production systems are dismantled., many jobs, much valuable land and other income generating assets are lost. and not only the affected people are worse off: when displacement is massive, it also weakens the local and regional economy (Cernea, 1996; Webber and McDonald,2010)" [2], [3].

In 21 villages questionnaire survey has conducted for socioeconomic status of displaced people. During the survey interviews villages and community leaders were also interviewed. Many of the interviewers were given their responses to the questionnaire survey [4].

3.1 Level of development for Rehabilitated Villages

The Table no.2 (Appendix- B) demonstrates the composite index for the level of development assessed on the basis of various parameters like Education for 5 to 10^{th} standard 2) 12^{th} 3) Graduate 4) Post Graduate ; Farmers,Self Employment, Farm Worker, Job, Income categories Rupess : Below 10,000 ; 10,000 to 25,000 ; 25,000 to 50,000 ; 50,000 to 1,00,000 ; Above 1,00,000 ; Pakka RCC / Concret houses; Bagayati land; River ; Well ; Borewell ; Canal ; Project ; Motors ; Borewell; Diesel Pump; Other.

The level of development for the villages are high for the villages-Tung (Bhomiv), Bagani (Nandoli), Kavatepiran (Shidheshwar) , Kini (Karade), Chavare (Karade), Peth Wadgaon (Sonarli).

The villages Aashte (Aamboli), Bhadhurwadi (Chandoli Buk.) Latavade (Aamboli), Aarala (Chandoli Budruk), Mangale (Nandoli), shows moderate growth .

New Pargaon (Karade), Kasabe Digrag (Zalambi), Rethare (Aamboli), Chikurde (Khundalapur), Peth Wadgaon (Tambave) represents low level of development.

Aarle (Karade), Kodoli (Wadi Hudub), Khumbhoj (Dhurgewadi), Satve(Durgewadi), Kakhe (Karade) comes in the catetory of very low (fig1-7).

Level of Development : High

The villages: Tung (Bhomiv), Bagani (Nandoli), Kavatepiran (Shidheshwar), Kini (Karade), Chavare (Karade) exhibits high values of composite index i.e. 26.56, 24.79, 24.24, 22.85 and 20.90 respectively. These values are the outcome of the values projected by the basic factors, wherein, Tung explicitly shows 44.87% of pupils are getting on with 5th to 10th education, 37.5 depends on farm or agriculture, 37.5% of people have annual family income in the range of 25,000-50,000; 50,000 to one lakh falling under this category. Moreover 87.50% of people have puccha type of house construction. People from this village getting more benefit of irrigation, the people are using motors for irrigation practices. This trend is followed by other four villages with slight variations in the base values.

Level of Development : Moderate

The rehabilitated villages comes under this category is known to be moderately developed villages because their composite index fall in the range of 18.2 to 15.5. These villages are Aashte (Aamboli), Bhadhurwadi (Chandoli Buk.) Latavade (Aamboli), Aarala (Chandoli Budruk), Mangale (Nandoli). For instance, village Aarala reveals that 46.97 % pupil are going to take the education in between 5th to 10th standard; 15.15% students are in the 12th standard and 3% are graduates. Whereas, 27.27% of people have agricultural lands, hence are farmers. In context with the annual income of family, near about 45.4% population fall under the category of 50,000 to one lakh and above. Here in,



Figure 1: Educational status of Rehabilitated villages



Figure 2: Annual income and Education of Rehabilitated villages

81 % population lives in puccha house whereas, 87 % are having bagayati land. more than 87% uses diesel pumps for irrigation. Therefore, the computed value of composite index 17.36, hence, falling under the category of moderate development.

Level of Development : Low

The villages following under this category are getting less facilities, for instance Peth wadgaon, shows 71.43 % of agricultural field and 9.52 % population only having



Figure 3: Occupation of Rehabilitated villages



Figure 4: Type of Houses

government or private jobs. Near about 43 % of population fall under the annual income category of rupees 25,000 to 50,000. On the other hand , 47.62% of people have annual income in the range of 50,000 to one lakh. All the people from these villages lives in Pakka-type of housing contributing 100%. They are also using diesel pumps for irrigation.

Level of Development : Very Low

Rest of the villages i.e. Aarle (Karade), Kodoli (Wadi



Hudub), Khumbhoj (Dhurgewadi), Satve (Durgewadi), Kakhe (Karade) are getting very few facilities and comes in the catetory of very low- Development. Most of the population depends on the agricultural facilities. More than 75% population depends upon other source of irrigation, particularly in Satve village the index represents 11.60-6.20. The villages falling in the same category shows same scenario with very minute differences in the composite index.

Overview

The villages falling under high to moderate level of development have composite index in the range of 15.5 to 26.56. The highest rate of development is contributed by the village Tung, where lowest is Mangle contributed to 15.5. Most of these villages don't rely on river for the direct source as a mode of irrigation, also not having the canal facilities for irrigation. Rather these villages are depends on projects and borewell as a mode of irrigation. The villages that ranges between low to very low level of development lies between 6.20 to 13.2. These villages typically do not have river, borewell and canal facilities. Moreover they do not use motors and borewell for irrigation. There is water scarcity problems in these villages. Most of the village people do not prefer working in farm land as a labourer, rather they are self employed or have jobs in government or private sectors. on an average people prefer living in pucca type house. Overall, except two villages i.e. Peth-Wadgaon and Kumbhoj, there is



nil utilization of other modes for irrigation, Very few villages have students of post graduation and graduation. Most of the parents tend to send their child to agricultural land for working rather than sending them to school for education.

3.2 Observations

During field work and study some villages are found to be in good conditions, but at some villages the rehabilitated settlement is very poor. Some observations are discussed below:

Lack Of Educational Facilities

After resettlement, the school and educational facilities are declining in some villages. The less number of educational amenities have been faced by children in the resettled settlements.

Infrastructure

Before dam construction, rehabilitated population were satisfied about infrastructure amenities. Thereafter, shifting the villages to the new location, they have suffered lack of poor infrastructure amenities, some displaced people got good facilities (fig 9-10). In some villages, people have faced poor sanitation facilities. The constructed sewage are opened in form. As a result, they are blocked due to garbage



Figure 7: Level of development: Rehabilitated villages



Figure 8: Rehabilitation-Questionnaire survey



Figure 9: Good metalled road in re-settlement in Chikurde village

like leaves of plant, plastic bags and domestic wastage (fig. 12). The good conditions of houses in pethwadgan (sonarli) have observed. The displaced population protested against government for demanding their pending demands . At Khundlapur (original village at dam site) the population have not shifted, therefore houses and roads are in poor conditions, that needs repairing of infrastructure.

Occupation

After displacement, the people have suffered changing occupational structure as well as increased unemployment due to loss of agricultural source of subsistence. The affected



Figure 10: Rehabilitation of chandoli at Kini village - primary school



Figure 11: Rehabilitation at Latavade village -Temple



Figure 12: Rehabilitation at Latavade village –sewage

people have engaged in agricultural and other economic activities, males are migrated to other place for searching new job. As a result, more family member becomes unemployed due to changing occupational structure.

It has been observed that many, young generation at an average age of 25-30 years are jobless, there should be some arrangement of employment clubbing with some other problems of rehabilitation, severity of insecurity feeling is increased day by day. It has seen that, many villages are facing problem due to lack of food crops, and lower incomes from all sources .

4. Conclusion

Dams provide more and sufficient benefits to the people, also impact on their economic and social well-being. Various experiences reflect that there are positive and negative impact of dam. Dams, by providing water for irrigation purposes reduces the flood problems, huge impounded water also used for power generation. These are the major positive effects of dam but dams are also responsible for social and cultural deterioration. The serious problem occurs due to dam is resettlement of the displaced people, who have lost their ancestral property. The most challenging social impact of dam is the displacement of native people. After resettlement, the displacement of native people have faced many social problem such as disturbance of family relationship, poor drinking water facilities, lack of infrastructure amenities, lack of education, medical, road and transportation, electrical facilities, absence of public toilet facilities, deficiency of market center and lack of water for irrigation. During the field work it has noted that some villagers are not ready to vacate their ancestral land and houses. They are still leaving in the same area, although they have given the new places for re-settlement. Government forcefully tried to shift them in newly rehabilitated villages, but some complaints have been arises by the displaced people regarding new rehabilitated villages. Some villagers, particularly the old people they are very unhappy due to Warna dam irrigation project. Their demands have not been fulfilled so far. During the survey in the rehabilitated areas, the problems are very serious regarding their land acquisition. In some villages the drinking water supply is not provided. Middle and Down stream basin villages are more developed due to irrigation facilities. Occupational opportunities should be increased for the displaced population. The government should provide employment opportunities for rehabilitated people.

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Appendix- A- Questionnaire : Rehabilitation Survey											
1											
Shivaji University, Kolhapur											
Department of Geography											
(Dr. Jagdish. B. Sapkale, Project Director ICSSR Major Research Project)											
Rehabilitation Survey											
Name of Surveyor: Date: Location:											
(Note : This Questionnaire has prepared by myself - Dr Jagdish B Sapkale in Marathi (of 09 pages)during field work and then translated in English)											
 Name of Your Ancestral / Permanent Village : Name of Present Resettled village : Year of Migration ? : Head of the Family : Name of the Interviewee : 											
6. Age : 7. Sex : Female Male . 8. Education (A) Illiferate (D) Up to XII th											
(B) Standard I to IV th (E) Graduate											
(C) Standard V to X th (F) Post Graduate / Higher Educated											
9. Occupation : (A) Farmer (D) On Daily Wages											
(B)Self Employed/ Business Men (E) Unemployed											
(C) Peasant (F) House Wife (G) Retired											
10. Religion: 11. Caste : (Category) 12. Sub Caste:											
13. Family Type: (A) Joint Family: (B) Single Family:											
14. Total Number of Family Member :											
15. Details of the Family Members :											
Sr. No. Name of Family Members Age Education Relation With Head of the Family Female Male Occupation Migration Annual Income											
2 16. Annul Income of Family: (A)Less Than 10,000 Rupees (B) 10,000 to 25,000 (C) Rs. 25,000 to 50,000 (D) 50,000 to 1,00,000 (E) More than 1,00,000Rupees (C)											
HOUSE											
17. House Number : 18.: Gat No of House :											
Before Now Before Now											
(here 'Before' ('Previously' means Prior to dam construction and 'Now'/ 'Presently' means after dam construction)											
19. Type of House : Previously : (A) Hut (C) Pucca House (Stone Wall)											
(B) Kachcha House (D) R.C.C./Concrete House											
Presently : (A) Hut (C) Pucca House (Stone Wall)											
(B) Kachcha House (D) R.C.C./Concrete House 20. Area of House :											
Previously: Square Feet: Square Metre : Presently: Square Feet: Square Metre :											
Presently: Square Feet: Square Metre : 21. Material Used for the Construction of House :											
21. Material Used for the Construction of House : Previously Wood Bricks Stones Cement Tin Soil Iron Any											
Presently Wood Bricks Stones Cement Tin Soil Iron Any											
22. Total Number of Rooms in your house : Previously : Presently											
22. Total Number of Rooms in your nouse : Previously : Presently 23. Transportation Facility/vehicle available with you.											
 Previously : 											
Bi- Bullock Motorcycle Scooter Tractor Truck Rickshaw Tempo Car Jeep Any											
cycle Cart Bolock Mooregele Scoter Hack Reksnaw Temps Car See Any other											
Presently:											
Bi- cycle Bullock Motorcycle Scooter Tractor Truck Rickshaw Tempo Car Jeep Any other											

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24. Hov	w old is your ho	use?															
25. Imp	ortant items Ar	ticles Avail	able in your h	ouse						39. Soil ty	oe in Agrici	ultural land :					
Previously	Landline	T.V	Mobile Phor				Freeze	Other		Previously	-	Red	Alluvium	Mud	Conglomerat	ed or Weathered	Other
	Phone		(Numbers)			achine					Black	Red	Alluvium		-	ed or Weathered	
resently	Landline Phone	T.V	Mobile Phor (Numbers)			ashing achine	Freeze	Other		Presently							
									_	40.Besides	Agricultur	e, any other	occupation :				
			FAR	Μ								usly (A) Y			(B) No		
26. Ha	d you holding a	gricultural	land Previousl	y: (A) Yes	s: 🗌 (B) No:				41 Are ve	Presen	tly (A) Y mestic Anir		((B) No		
26a. Ar	e you having yo	ur own Ag	ricultural land	Now: (A)	Yes	(B) No				-		am Constru		Pr	resently (After	Dam Construc	tion)
27. If ye	es GAT No. of .	Agricultura	l Land:							11010405	(Bellore B		,		county (criter	Dam Construc	,
28. Tota	al area of Agric	ultural Lan	d :							Type of Animals	Numbers	s Usefulr	ness	Type of Animals	Numbers	Usefulness	
Pre	viously : Hec	tare:	Acre:	Guntha(I	R):					7 tilling				Animais			
Pre	esently: Hec	tare:	Acre:	Guntha(I	R):												
29. Dist	tance of Agri. L	and from F	louse:														
Pr	eviously :	Km:	Meter:														
Pre	esently :	Km:	Meter:										-				
30. Typ	e of Agri. Land	:								42. From Wh		getting fodd	er for anima				
F	Previously (Bef									Previously Fr	om griculture	Forest	By Purchasing	Prese	ently From Agricult	From Forest Hilly Area	By Purchasing
		Arable: orticulture:	Hectare: Hectare:	Act		Guntha(I						Hilly Area					
	Uncultivat		Hectare: Hectare:	Acr		Guntha(F Guntha(F											
Рг	resently (After					Ounnu(1	<i>c)</i> .										
		Arable:	Hectare:	Ac	re:	Guntha(I	R):			42 Augila	ility of an		ucation/		Γ/MEDICAL		
	Но	orticulture:	Hectare:	Acr	re:	Guntha(F	t):				viously :	(A) Yes		(B) N	Jo		
	Uncultivat	ed/Barren:	Hectare:	Acr	re:	Guntha(F	R):				sently :	(A) Yes		(B) N			
30a.Dis	tance of Agricu	ltural Land	From	Rive	er :												
31. Is th	here any Progres	ss in Agricu	ultural Product	ivity after (Constructio	n of Dam	?										
														6			
														6			
			4							44. Avai	lability of	good Med	lical faciliti				
			4								lability of eviously	-	lical faciliti		(B) No]	
					115 0					Pr	-	: (A)	_		(B) No (B) No]	
	o Dam constru	uction, W		igation fac	eility & eq	uipment		ed		Pr P	eviously resently	: (A) : (A)	Yes	es ?	(B) No]	_
	riculture ?		hat type of irr	igation fac	cility & eq	luipment		ed		Pr P	eviously resently many sch	: (A) : (A)	Yes	es ?	(B) No] ently]
for Agr	riculture ?	uction, Wi	hat type of irr	rigation fac		uipment	were us	_		Pr P 45. How Previous	eviously resently many sch	: (A) : (A) ools are th	Yes Yes ere in your	village?	(B) No] ently]
	riculture ?		hat type of irr	-			were us	_		Pr P 45. How Previous	eviously resently many sch ly	: (A) : (A) ools are th	Yes	village? vere in yo	(B) No	ently	ation
for Agr River	viculture ?	ube Well	hat type of irr	teservoir/E	Dam De		were us]		Pr 45. How Previous 46. Up to	eviously resently many sch ly	: (A) : (A) ools are th andard Sch	Yes	village? vere in yo	(B) No Pres		ation
for Agr River	viculture ?	ube Well	hat type of irr	teservoir/E	Dam De	pend on 1	were us Rainfall]		Pr 45. How Previous 46. Up to	eviously resently many sch ly o which st sly :	: (A) : (A) ools are th andard Sch	Yes	village? ere in yo	(B) No Pres		
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for Agr River Electric Pu 3. Now af	mp Bore-w	ube Well vell with e	Canal R lectric Conne	teservoir/E	Dam De Diese & equipm	pend on l	were us Rainfall Othe	er		Pr 45. How Previous 46. Up t Previou Present 47. Faci	eviously resently many sch ly o which st sly : y : stc ities of M	: (A) : (A) ools are th andard Sch Std 1 st to 4 th I 1 st to 4 th	Yes Yes Y Yes Y Y Yes Yes Yes Yes Yes Yes	village? village? 10^{m} 11	(B) No Press ur village? 11 ^m to 12 ^m	Up to Gradu	
for Agr River Electric Pu 33. Now af	mp Bore-w	ube Well vell with e struction,	Canal R lectric Conne what type of	eservoir/E ection	Dam De Diese & equipm	pend on l	were us Rainfall Othe	er		Pr P 45. How Previous 46. Up t Previou Present 47. Faci Pr	eviously resently many sch ly o which st sly : y : tities of M eviously	: (A) : (A) ools are th andard Set Std 1 st to 4 th 11 st to 4 th farket in ye (A) Y	Yes Yes hools are th n 5 th to 1 bur village res	ere in yo 10^{m} 11	(B) No Press ur village? 11 ^m to 12 ^m	Up to Gradu	
for Agr River Electric Pu 33. Now af River	iculture ? Well T mp Bore-w fter Dam Con Well Tul	ube Well /ell with e struction, pe Well	Canal R lectric Conne what type of	ection irrigation Reservoir	Dam De Diese & equipm ir/Dam	pend on l	were us Rainfall Othe ed ? nd on Ra	er		Pr P 45. How Previous 46. Up t Previou Present 47. Faci Pr Pr	eviously resently many sch by o which st sly : y : y : ities of M eviously esently	: (A) : (A) sools are th andard Sel Std 1 st to 4 th 11 st to 4 th f1 st to 4 th (A) Y (A) Y	Yes Yes ere in your nools are th ^ 5 th to 1 5 th to 1 our village Yes Yes	ere in yo 10^{m} 11	(B) No Press ur village? 11 ^m to 12 ^m	Up to Gradu	
for Agr River Electric Pu 33. Now af River	iculture ? Well T mp Bore-w fter Dam Con Well Tul	ube Well /ell with e struction, pe Well	An type of irrive connection of the connection o	ection irrigation Reservoir	Dam De Diese & equipm ir/Dam	pend on l pump ent in us Depe	were us Rainfall Othe ed ? nd on Ra	er		Pr P 45. How Previous 46. Up t Previou Present 47. Facii Pr Pr 47. Facii	eviously resently many sch by o which st sly : y : ities of M eviously esently ation/place	: (A) : (A) ools are th andard Set Std 1 st to 4 th 11 st to 4 th farket in ye (A) Y	Yes Yes ere in your nools are th ^ 5 th to 1 5 th to 1 our village Yes Yes	ere in yo 10^{m} 11	(B) No	Up to Graduat	
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7	9
	78. Now, at present local people of this village helps you or not? Yes No
55. Sewage Facilities in Village?	 Now, a present local people of this vinage helps you of not ? Tes Is the resettled village has established according to govt plan or planning ?
Previously : (A)Yes (B) No	 80. Villagers of this village, celebrates festival with you all ? At which Place ?
Presently : (A)Yes (B) No	so. Vinagers of this vinage, cerebrates restrval with you all ? At which Place ?
55 a. Where the dirty / waste water from your house drained? :	81. Perception of villagers / people towards Chandoli dam :
56. Name of river near your village?	Before dam construction : After dam construction :
Previously : Presently :	
	Perceptions Highly Moderately Highly regarding Satisfied statisfied Highly field regarding Satisfied Highly Moderately Highly field regarding Satisfied statisfied Unsatisfied
57.From where drinking water was provided to you, Previously ?	Economical Benefits Economical Benefits
River Well Tube Well Canal Reservoir / Dam	Cultural Status Security services Security services Security services Security services near
	near forest area forest area
57a.From where drinking water is provided to you, Now ?	Quality of Agricultural Land Quality of Agricultural Land Educational Educational Facilities
River Well Tube Well Canal Reservoir /	Facilities Health Facilities Health Facilities
Dam	Transportation facilities facilities
	Employment Opportunities Opportunities
58. For what purpose you were using river's water, Previously?	Drinking Water facility facility
For Drinking For Agriculture For other Purpose	
	82. In this village, are you getting or provided more facilities than the local villagers ?
58a. For what purpose you are using river's water, Now?	Yes No
For Drinking For Agriculture For other Purpose	83. What is your opinion regarding this (Question no. 82)?
59. Are you getting chandoli dam's water (Are dam's water reached in your village)?	84. As a displaced person in this village, Who has helped you at the most for your development?
(A)Yes (B) No	(A) Central Govt. (B) State Govt. (C) Political Leaders
60. As per your perception, is there a benefit from this dam or Loss?	(D) Your Village level/Association Leader (E) Local people of this village
What type of Benefit :	85. Is there any impact on Environment due to construction of dam?
What type of Loss :	or is there ally implies on Environment are to construction of dama.
61. At the time of migration from your ancestral village, how much remuneration (in terms	86. Is there any change /shift in river bed due to construction of dam?
of Rupees) have received from Government ? :	(A)Yes (B) No
61a. After dam Construction, is there any change in your annual income?	If yes then what :
(A)Yes (B) No	87. Is there any change in river water due to dam construction?
	(A)Yes (B) No
8	If yes, what?
62. As a Rehabilitated person how many persons of your family have given permanent	it yes, what:
job/govt. service?	
63. Any Loss of Agricultural land under dam construction	10
How much area occupied by the project : Hectare: Acre : Guntha(R) :	88. Due to dam construction, is river water poured out from both Banks?
64. Area of the New Agricultural land given Hectare: Acre : Guntha(R) :	
65. Is agricultural Land is totally under cultivation A)Yes (B) No	(A)Yes (B) No
66. At present, (prior to some years) opportunities in employment have increased?	89. Due to dam, is there any problem of flood in village?
(A)Yes (B) No	(Flood occurs in your village due to dam.)
If yes then which one :	(A)Yes (B) No
	90. Are the numbers of trees have increased near or around the agriculture lands of villages?
66 a. Life style of people have improved? (A)Yes (B) No	(A)Yes (B) No
67. Are the villagers have facing problem of unemployed? (A)Yes (B) No (B) No (B) No (C)	91. Is, Common Lavatory is available in your village?
68. After migration have you facing problem :	Previously: (A)Yes (B) No , Presently: (A)Yes (B) No
oo. Arter nigration have you lacing problem .	92. Availability of Lavatory in your house?
Socially Yes No Which Problem :	Previously: (A)Yes (B) No , Presently : (A)Yes (B) No
Economically Yes No Which Problem :	
	93. From where drinking water is supplied in your village ? Is impure water processed for
Environmental Yes No Which Problem :	its purification ?
	94. Is there any epidemic disease occurs continuously in your village?
	Previously: (A)Yes (B) No , Presently : (A)Yes (B) No
69. Have crop productivity has increased in this village ? Yes No	Which one :
70. Problem of soil erosion in this village ? Yes No	
71. Is there any change in ground water level? Yes No	95. Availability of electricity in village and in your house ?
72. Scarcity of water in this village ? Yes No	Previously: (A)Yes (B) No , Presently: (A)Yes (B) No
73. Lacking of educational facilities in this village? Yes No	96. Availability of Post Office in your village ?
74. Lacking of medical facilities in this village ? Yes No	Previously: (A)Yes (B) No , Presently : (A)Yes (B) No
75. Have you facing problem regarding drought in village ?Yes No	97. By construction of dam, drinking water & water for irrigation have provided to villages that's why it is resulting for the development of villages & changes the life style of
76. Rainfall status in this village ? Good Average Very less	that's why it is resulting for the development of villages & changes the life style of Villagers, Is it true? Please give your personal comment.
77. When you have shifted to the resettled village, How was the behavior of New villagers	
towards you? They helped you or not?	98. As a Dam affected person, What are your major problems ?
	99. Your ancestral houses, property had submerged under Warna dam and you had displaced
	to the new village, what is your opinion regarding this?

Note : To avoid plagiarism, Please give the complete References/Citations in proper citation formats for the above published work/material, Questionnaire, sources.

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REMARK	HGH	HIGH	HOH	HIGH	MODERAT	MODERAT	MODERAT	MODERAT	MODERAT		NOT	LOW	NOT	VERY LOW	VERY LOW	VERY LOW	VERY LOW	Dr. Jagdish B. Sapkal
COMJINDEX	18.76	26.56	24.24	22.85	18.20	18.06	17.36	15.73	15.51	13.12	13.04	13.01	12.06	11.60	10.25	9.41	6.20	
25	68.57	0.00	0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.0	Fluvial Geomorphology, Coastal Environment relationship and Applic
24	0.00	000	25.00	0.00	000	100.00	87.50	100.00	100.00	000	100.00	100.00	100.00	100.00	8005	100.00	0:00	GIS in various Geographical studies.
23	2.86	000	000	100.00	000	0.00	12.50	0.00	000	000	000	0.00	0.00	0.00	900	0.00	000	20,000
22	28.57	100.00	75.00	800	8	000	000	000	8	88	8	800	000	0.0	88	000	80	00 (12)
21	14.29	80.00	62.50	0.00	0.0	85.71	75.00	66.67	50.00	000	0.00	100.00	100.00	66.67	000	75.00	0.0	io 50,00
20	0:00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	100.001	0.00	0.00	0.00	0.0	0.00	0.00	25,000 t
19	2.86	000	000	000	000	0.00	0.00	000	000	000	000	000	000	000	000	0.00	000	yment 7) Farm Worker 8) Job 9) Below 10,000 (10) 10,000 to 25,000 11) 25,001 ewell 20) Canal 21) Project 22) Moters 23) Borewell 24) Diesel Pump 25) Other
18	0.00	20.00	37.50	100.00	000	14.29	25.00	33.33	20.00	000	000	0.00	0.00	0.00	000	0.00	0.0	to 25,0
17	14.29	0.0	0.00	0.00	0.0	0.00	0.00	0:00	0.00	0.00	0.00	0.00	0.00	33.33	805	25.00	0.00	10,000 24) Die
16	18.75	37.50	16.67	33.33	20.05	85.71	87.50	66.67	20:00	800	25.00	80	100.00	000		80	40.00	0 (10)
15	11.11	000	000	000	20.02	000	000	000	000	800	990	000	1.43	000		000	000	v 10,00 ; 23) Bo
14	75.56	87.50	75.00	100.00	000	85.71	12.50	81.82	60.00	80.00	25.00	100.00	8.57	100.00	100.001	100.00	80.00) Belov Moters
13	4.44	12.50	25.00	0.00	20.00	14.29	0.00	0.00	20.00	12.50	0.00	0.00	28.57	0.00	052	0.00	0.00	3) Job 9 ect 22)
12	22.22	20.00	12.50	33.33	20.00	42.86	25.00	60.6	40.00	37.50	0.00	47.62	42.86	25.00	37.50	33.33	20.00	1) Proj
11	44.44	37.50	25.00	66.67	0.00	28.57	50.00	45.45	40.00	0.00	20.00	42.86	0.00	50.00	40.00	66.67	20.00	arm W Canal 2
10	28.89	0.00	37.50	0.00	80.00	14.29	25.00	45.45	0.00	0.00	80.05	9.52	28.57	25.00	15.00	0.00	60.00	ent 7) (
6	000	000	000	0.00	000	000	000	0.00	000	000	000	000	000	0.00	000	000	000	Borew
	11.11	0.0	12.50	000	90	000	000	18.18	20.00	12.50	25.00	000	000	0.00	90,9	000	000	ell 19)
2	4.44	12.50	12.50	0.0	000	0.00	0.00	0.00	0.00	12.50	000	0.00	0.00	\square	000	0.00	0.00	18) W(
9	+	899		800	88	⊢	-	H	+	88	╀	⊢	⊢	80	38	╀	8	5) Farr
s	35.56	37.50	20.00	66.67	80.00	85.71	62.50	27.27	60.00	50.00	25.00	71.43	71.43	100.00	20.00	100.00	100.00	aduate ayati 1.
H	+	1.85	0.00	+	2.63	⊢	⊢	H	+	0.0	╈	⊢	⊢	+	1.67	╋	0.00	ost Gr 6) Bag;
Н	+	3.70	+	+	5.26	⊢	⊢	\mathbb{H}	+	88	╀	⊢	⊢	+	418	╀	000	ate 4) F ncret 1
Н	+	9.26		+	10.53	22.22	5.26		+	4.65	╀	⊢	⊢	\vdash	11 72	╀	12.82	Gradu CC / Co
-	44.87	42.59	38.18	42.42	44.74	25.93	34.21	46.97	30.23	37.21	52.17	40.00	32.26	28.57	37.66	50.00	28.21	(12 th 3) a 15) Ri
VILLAGE NAME	PETH WADGAON (SONARU)	TUNG (BHOMIV)	KAVATEPIRAN (SHIDHESHWAR)	KINI (KARADE)	AASHTE (AAMBOLI)	BHADHURWADI (CHANDOLI BUK.)	LATAVADE (AAMBOU)	AARALA (CHANDOLI BUDRUK)	MANGALE (NANDOLI)	NEW PARGAUN (KARAUE) KASABE DIGRAG (ZALAMBI)	RETHARE (AAMBOLI)	CHIKURDE (KHUNDALAPUR)	PETH WADGADN (TAMBAVE)	AARLE (KARADE)	KULULU (WALL RULUUS) KHUMBHOI (DHURGEWADI)	SATVE(DURGEWADI)	KAKHE (KARADE)	Professor in the Depart University, Kolhapur, D research experience of O Fluvial Geomorphology, Coastal Environment relationship and Applie GIS in various Geographical studies.

Author Profile



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> Dr. Jagdish B. Sapkale is working as an Assistant Professor in the Department of Geography, Shivaji University, Kolhapur, Maharashtra, India. He has a research experience of over 20 years in the field of Fluvial Geomorphology, Coastal Geomorphology, Man and Environment relationship and Applications of Remote Sensing and GIS in various Geographical studies.