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Villages in a Global World

Throughout this report, we have documented tremendous differences in the lives of individuals and households based on their geographic location, with rural residents having poorer health, education, incomes, and employment opportunities. However, it is also important to note the diversity among rural residents. Many rural areas have seen rapid integration into the global economy while others seem to have been forgotten. This chapter explores the regional variation in the connectedness of the villages to the larger world and finds the differences quite remarkable.

Despite rapid urbanization and migration to urban areas in search of employment, according to the 2001 Census, 72.2 per cent of Indians continue to reside in villages. As we documented earlier, characteristics of communities greatly influence the success of the men, women, and children who live in them and this has important consequences for human development. For example, access to roads is important for the movement of goods and people and for the diffusion of ideas. Electricity access not only helps agricultural productivity but also increases the efficiency with which people can accomplish tasks like fetching water, reading, working in the evening after sun down, and enjoy some leisure through access to television. Similarly, access to schools and health facilities ensures an educated and healthy population.

The IHDS collected information on 1,454 villages nationwide through interviews with key informants in each village.¹ These key informants were usually village officials, but the information collected from them was often supplemented with interviews with other individuals. The survey focuses on a variety of dimensions of village life and access to infrastructure, allowing us to ground the household-based information described in earlier chapters in a contextual perspective. While interpreting these results, caution in making interstate comparisons must be exercised because the sample of villages is far more restricted than the sample of households. Moreover, large and small villages are weighted equally in the results presented here.

This chapter focuses on the following:

(1) Village connectivity via road, rail, telephone, and availability of electricity and water; (2) The availability of public services such as schools and health care, and, (3) The presence of NGOs and development programmes.

VILLAGE CONNECTIVITY

As inclusive growth emerges as the theme for Indian economic development, it is important to recognize that this inclusion depends on how well connected the communities are to the wider economy. At its most basic level, this connectivity takes a physical form: access to electricity, post office, and telephone. Other measures include access to public transportation and banks. Paved roads are also important for connectivity, and our village level data indicates that one of the most important results of Indian growth seems to be the development of an extensive network of roads. With the exception of Uttarakhand, most villages in the IHDS sample seem to have a paved road in, or near the village. However, the geography of the state influences the distance from the nearest town and from the district headquarters. While the

¹ The IHDS surveyed 1,503 villages, but several village questionnaires were incomplete, resulting in 1,454 completed village questionnaires.

mean distance to the nearest town can be as little as 9 km, as it is in Kerala, it can be as much as 20-5 km, as it is in Uttarakhand, Jharkhand, and the North-East.

As Table 12.1 indicates, access to electricity varies by region.

While the states in the north (for example, Himachal Pradesh, Punjab, and Haryana) and in the south (for example, Andhra Pradesh and Karnataka) can boast of near complete penetration of electricity in rural areas, other states like Bihar, Assam, Jharkhand, and Orissa have a long way to go. Furthermore, penetration rates mean little if the reliability of access is poor. States that have the highest rates of penetration do not necessarily provide the most reliable services. For example, on an average, villages in Punjab and Haryana receive only 9–11 hours of electricity per day. On the other hand, states that have poor penetration rates, like Bihar or Assam, also have the fewest hours of access (four and eight hours, respectively) to the service. In comparison, the rural areas of Kerala and Tamil Nadu not only have relatively high rates of penetration in rural areas but also enjoy more than 20 hours of electricity supply per day.

Comparison of household and village access to electricity points to an interesting lacuna of public policy interest. Although a large proportion of the villages in the IHDS sample boast of electricity connection, the same cannot be said of the households. For example, while 88 per cent of the sample villages in Gujarat, Dadra and Nagar Haveli, and Daman and Diu, have electric connections, only 29 per cent of the households in the rural sample do. This suggests that

Table 12.1 Village Infrastructure by State												
	Number of Completed Village Schedules	Mean Distance from Nearest Town	Mean Distance from District Town	Per cent Villages with Paved Road	Distance from Road if No Road	Per cent Villages with Electricity	Per cent Homes with Electricity in Villages	Mean Hours of Electricity Per Day				
All India*	1,495	14.29	44.51	92	1.6	91	68	13.11				
Jammu and Kashmir	20	9.55	33.10	90	1.8	100	81	11				
Himachal Pradesh	52	19.90	47.42	85	2.4	100	98	14				
Punjab/Chandigarh	61	11.10	32.72	100	0.1	100	96	11				
Haryana	79	10.28	27.56	100	0.0	100	90	9				
Uttar Pradesh	138	12.69	34.36	92	0.9	89	42	8				
Uttarkhand	20	21.83	43.44	50	1.6	90	85	15				
Bihar	61	12.80	28.70	95	2.7	62	23	4				
Jharkhand	26	24.31	38.65	96	1.9	77	46	12				
Rajasthan	88	12.63	53.63	93	0.4	91	56	8				
Madhya Pradesh	129	17.45	47.34	90	3.6	95	78	6				
Chhatishgarh	49	12.09	53.98	94	5.3	92	63	17				
West Bengal	66	12.02	46.63	86	1.4	86	39	19				
Orissa	84	16.84	50.51	85	2.1	76	29	19				
Assam	38	13.53	42.67	87	5.9	58	27	8				
North-East	33	20.91	38.30	97	3.5	94	71	17				
Gujarat, Daman, Dadra	76	13.79	43.71	91	0.6	92	89	18				
Maharashtra/Goa	121	12.34	51.61	98	0.4	98	79	17				
Andhra Pradesh	94	17.62	65.41	89	1.5	100	85	16				
Karnataka	142	16.52	51.49	99	1.1	100	82	11				
Kerala	61	8.88	28.40	82	0.8	80	77	23				
Tamil Nadu/Pondicherry	65	10.12	40.44	89	2.0	91	90	22				

Note: *Tables present unweighted summary from village questionnaires. These data are from nationwide but not nationally representative. Source: IHDS 2004–5 data.

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there may be other barriers to electrification for households besides the availability of electric connection.

Provision of water is another basic infrastructure that seems to vary by state. Households' access to indoor piped water was discussed in Chapter 5, but Table 12.2 provides information about access to water supply at the village level.

This table indicates that the two most important sources of water in rural India are piped water (41per cent) and hand pumps (33 per cent). The states of Himachal Pradesh, Gujarat, and Andhra Pradesh have succeeded in providing access to piped water to more than 80 per cent of the villages. Other states, like Punjab, rely more on a mix of piped water and hand pumps. Piped water is the least common in Orissa, Assam, West Bengal, Uttar Pradesh, Bihar, and Jharkhand. Besides access to basic infrastructure, the integration of a village into the economy depends on the community's access to banks, post offices, public transportation, phones, and the like. Table 12.3 highlights that with the exception of telephone services most, if not all, states have a long way to go in providing universal access to such facilities in rural areas.

Among the worst connected are the rural areas of Uttar Pradesh, Jharkhand, Madhya Pradesh, Chhattisgarh, and Assam.

Proximity to administrative towns seems to affect the level of development such that the farther away a village is from the district headquarters, the less infrastructure facility it gets. Measuring economic development by counting within the village access to ten infrastructure facilities—electricity,

	Ta	ble 12.2 Prima	y Water Source	e in Village by S	tate					
	Primary Water Source in the Village									
	Piped Water	Tube Well	Hand Pump	Open Well	Covered Well	Other	Total			
All India*	40.7	13.4	32.5	8.7	2.0	2.7	100			
Jammu and Kashmir	50.0	0.0	20.0	10.0	0.0	20.0	100			
Himachal Pradesh	88.5	0.0	5.8	3.9	0.0	1.9	100			
Punjab/Chandigarh	36.1	4.9	59.0	0.0	0.0	0.0	100			
Haryana	54.4	3.8	30.4	3.8	6.3	1.3	100			
Uttar Pradesh	6.7	1.5	88.9	3.0	0.0	0.0	100			
Uttarkhand	38.9	0.0	50.0	0.0	0.0	11.1	100			
Bihar	1.6	45.9	47.5	3.3	1.6	0.0	100			
Jharkhand	3.9	19.2	57.7	19.2	0.0	0.0	100			
Rajasthan	31.0	24.1	34.5	6.9	2.3	1.2	100			
Madhya Pradesh	13.6	5.9	57.6	17.8	2.5	2.5	100			
Chhatishgarh	6.4	6.4	68.1	17.0	0.0	2.1	100			
West Bengal	6.3	17.2	62.5	12.5	0.0	1.6	100			
Orissa	7.2	56.6	20.5	13.3	0.0	2.4	100			
Assam	2.8	88.9	5.6	2.8	0.0	0.0	100			
North-East	63.6	6.1	3.0	12.1	0.0	15.2	100			
Gujarat, Daman, Dadra	85.7	1.4	12.9	0.0	0.0	0.0	100			
Maharashtra/Goa	66.7	2.5	16.7	12.5	0.0	1.7	100			
Andhra Pradesh	81.9	6.4	9.6	1.1	0.0	1.1	100			
Karnataka	75.4	7.8	3.5	11.3	0.0	2.1	100			
Kerala	26.0	6.0	0.0	34.0	32.0	2.0	100			
Tamil Nadu/Pondicherry	59.3	13.6	3.4	1.7	3.4	18.6	100			

Notes: *Tables present unweighted summary from village questionnaires. These data are nationwide but not nationally representative. Source: IHDS 2004–5 data.

Table 12.3	Availability of PDS Sho	ops, Banks, Post C	Offices, Buses, and P	hones in the Villag	<u>g</u> e	
	Public Distribution System Shop	Bank in Village	Post Office in Village	Bus Stop in Village	Landline Phone in Village	
All India*	72	30	53	51	79	
Jammu and Kashmir	75	40	45	30	85	
Himachal Pradesh	46	19	46	58	98	
Punjab/Chandigarh	79	48	67	62	98	
Haryana	81	47	58	63	100	
Uttar Pradesh	79	16	43	19	91	
Uttarkhand	35	15	10	10	60	
Bihar	67	38	61	39	84	
Jharkhand	77	8	15	58	62	
Rajasthan	53	22	55	52	82	
Madhya Pradesh	51	21	36	39	69	
Chhatishgarh	53	8	24	41	57	
West Bengal	64	17	52	32	86	
Orissa	65	23	42	40	69	
Assam	74	8	16	13	76	
North-East	67	30	33	48	70	
Gujarat, Daman, Dadra	80	34	75	71	88	
Maharashtra/Goa	88	39	53	65	91	
Andhra Pradesh	93	33	81	68	94	
Karnataka	75	35	65	77	96	
Kerala	75	64	77	52	82	
Tamil Nadu/Pondicherry	83	34	74	74	89	

Notes: *Tables present unweighted summary from village questionnaires. These data are nationwide but not nationally representative.

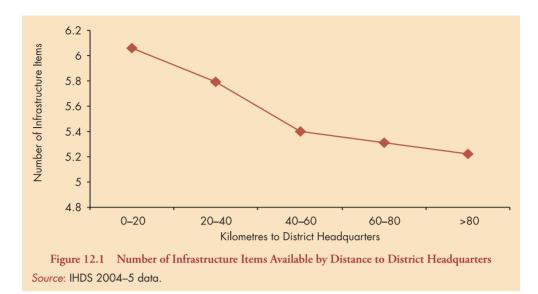
Source: IHDS 2004–5 data.

paved road, *kirana* (grocery) shop, bus stop, landline and mobile access to telephone, post office, police station, bazaar, and bank—we find that villages that are farthest from the district headquarters are the least likely to have access to these development inputs. Figure 12.1 shows a precipitous drop in the number of items available to a village as the distance from district headquarters increases.

Note that in the previous chapters we have described the differences in a variety of human development indicators, such as health, education, and employment opportunities and their relationship to village development. These chapters show that villages with access to at least six of the ten infrastructure facilities described above have considerably greater access to health care, education, and employment opportunities. Finally, it is worth noting that while many villages have access to various kinds of infrastructure on paper, and often in the form of buildings or bus shelters, the actual provision of services is defunct or unreliable, as evidenced by the case of electricity. For example, in some villages, Public Distribution System (PDS) shops are often closed because of lack of supplies.

EDUCATION IN RURAL INDIA: UNEVEN DEVELOPMENT

India is receiving global recognition for producing savvy engineers, doctors, and other highly trained professionals. Early government investments in high quality medical and engineering schools seems to be paying rich dividends to a section of the population that can be compared with the



best in the world. In urban areas, there are many excellent educational institutions at the elementary, upper primary, and high school levels. However, as we documented in Chapter 6, the quality of education is highly variable. Only about half the children, aged between 8-11 in rural areas, are able to read a simple paragraph. Many children drop out of the schooling system, either because of a lack of access to schools or poor returns to education in rural areas. The IHDS results presented in Chapter 6 document that a substantial fraction of students completing Standard 5 drop out before completing Standard 10, and this is particularly true in rural areas. This finding may be related to a lack of access to schools in rural areas. Though, almost all villages in India boast of a government primary school, reflected in high primary school enrolment rates documented earlier, as Table 12.4 indicates, this is not true of higher levels of education, particularly secondary schools.

In some cases where government schools are distant, private schools may fill the gap. We documented an increasing number of rural children attending private schools (about 20 per cent). However, private schools are still rare in rural areas, with nearly 60 per cent of the villages not having a private school of any kind. It is important to note that the absence of school from villages is not synonymous with total lack of access to schools. In many instances, even when a school is not located in the village, it may be accessible in a nearby village. Table 12.5 shows the location of educational facilities in the village and within 1–5 km for primary, upper primary, secondary, and higher secondary schools, as well as colleges, whether they are public or private.

In many parts of India, children have access to a primary (Standards 1–5) and upper primary (Standards 5–8) school within walking distance from the village, even if not within the village. This access declines at the secondary level (Standards 9–10).

At higher levels of education (that is, higher secondary and beyond), almost all states fare poorly. Overall, only 13 per cent of villages have access to a government higher secondary school. Kerala leads with 48 per cent of the villages having access to a government higher secondary school, and Punjab follows with 35 per cent.

It is important to note that the absence of school from villages does not imply total lack of access to schools.

If we include access to private higher secondary schools, more than 50 per cent of villages have a high school within 5 km. As Table 12.5 indicates, in Kerala, almost all villages have some type of a high school within 5 km. Punjab and Tamil Nadu also fare quite well, with more than 70 per cent of villages having access to a higher secondary school within 5 km. However, Bihar and Jharkhand fare poorly even when private schools are included.

Dissatisfaction with the public school system is evidenced by a growing trend among households at all levels of income of sending their children to private schools. Table 12.6 documents a mean school index, ranging from 1 to 5, measuring the presence of primary, upper primary, secondary, and higher secondary schools, as well as colleges in rural areas.

These values are listed overall, and separately for government and private schools. While government schools form the majority of educational establishments available, states such as Punjab, Haryana, and Kerala also seem to have a sizeable number of private schools. Ironically, these are also states with the most access to various levels of government schools. With the exception of Uttar Pradesh, all states where private school presence is strong are states where government schools are widely available. This complementarity between private and public systems is a theme to which we shall return when discussing community programmes.

	Table 12.4 Access to Government Educational Institutions in the Village									
			Per cent Villag	es with Access to	Government					
	Anganwadi	Primary	Upper Primary	Secondary	Higher Secondary	College	Girls' School			
All India*	89	93	60	28	13	2	10			
Jammu and Kashmir	85	100	55	25	5	0	30			
Himachal Pradesh	77	83	56	40	23	6	2			
Punjab/Chandigarh	90	98	66	52	34	5	10			
Haryana	96	99	72	58	23	1	34			
Uttar Pradesh	86	92	49	9	8	1	6			
Uttarkhand	75	85	45	15	10	0	0			
Bihar	75	82	66	21	5	5	7			
Jharkhand	96	88	50	4	4	0	8			
Rajasthan	92	98	69	31	15	1	24			
Madhya Pradesh	91	97	65	17	8	1	19			
Chhatishgarh	88	96	53	16	12	2	8			
West Bengal	86	94	30	29	9	0	5			
Orissa	88	90	52	31	6	6	8			
Assam	87	95	71	11	8	0	8			
North-East	79	85	58	36	15	3	3			
Gujarat, Daman, Dadra	91	91	54	24	14	0	14			
Maharashtra/Goa	96	97	49	16	5	0	3			
Andhra Pradesh	98	100	74	56	11	2	4			
Karnataka	96	100	78	20	4	1	4			
Kerala	82	75	66	56	48	7	5			
Tamil Nadu/Pondicherry	88	82	57	34	26	8	2			

Notes: *Tables present unweighted summary from village questionnaires. These data are nationwide but not nationally representative. Source: IHDS 2004–5 data.

CHALLENGES IN RURAL HEALTH CARE

Access to medical facilities is even more varied than access to schools. Only 70 per cent of villages surveyed by the IHDS have access to some type of medical facility within the village. A distribution of medical facilities is show in Figure 12.2.

Only 52 per cent of villages in this sample have some kind of government medical facility (see Table 12.7).

Unfortunately, in most states, the lack of public medical facilities is not compensated by access to private medical facilities. In about 20 per cent of the villages that are not covered by the government, private clinics fill the need. However, about 30 per cent of villages in India have neither a government nor a private medical facility. One-third of the villages have access to medical facilities offered by both sectors within the village. The most common government facility for medical care in a village is a government health sub-centre.

Sub-centres are typically the first point of contact between government health services and patients and serve a population of about 5,000 individuals. They are expected to be staffed by two health workers. One is a female auxiliary nurse midwife (ANM) who provides immunization, and maternal and child health services. The other is typically a paramedical offering basic medical care along with emergency care while referring major illnesses for physician care to PHCs. Many sub-centres tend to be understaffed. Sub-centres refer patients to a PHC or CHC. Coverage norms vary depending upon geography. In the plains' states, PHCs cover a population of about 30,000, and CHCs cover a population of about 120,000. In general, several trained

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	Table 12.5 Distance to Nearest Educational Institution (Government or Private)										
		Per cent Villages with Distance to Nearest Educational Institution (Government or Private)									
	Prim	/	Upper Primary		Secondary		Higher Secondary		Coll	0	
	In Village	1–5 Kms	In Village	1–5 Kms	In Village	1–5 Kms	In Village	1–5 Kms	In Village	1–5 Kms	
All India*	97.8	2.2	68.9	26.7	39.0	38.4	17.9	34.4	4.0	13.2	
Jammu and Kashmir	100.0	0.0	80.0	20.0	29.4	58.8	7.1	57.1	0.0	28.6	
Himachal Pradesh	82.7	17.3	55.8	42.3	28.6	50.0	23.5	29.4	6.1	10.2	
Punjab/Chandigarh	100.0	0.0	74.6	23.7	58.6	34.5	40.0	36.7	8.3	8.3	
Haryana	100.0	0.0	75.6	23.1	63.6	27.3	26.0	42.5	1.4	16.4	
Uttar Pradesh	96.2	3.8	63.4	35.1	23.1	49.3	14.2	49.3	1.5	17.9	
Uttarkhand	100.0	0.0	61.1	33.3	27.8	38.9	16.7	38.9	0.0	0.0	
Bihar	90.9	9.1	69.0	27.6	22.8	56.1	5.7	35.9	7.0	17.5	
Jharkhand	96.0	4.0	76.5	23.5	33.3	33.3	18.2	9.1	0.0	0.0	
Rajasthan	100.0	0.0	72.1	25.6	34.9	37.4	16.3	36.3	2.6	2.6	
Madhya Pradesh	99.2	0.9	67.8	32.2	19.3	30.7	9.9	26.1	0.9	8.9	
Chhatishgarh	100.0	0.0	55.3	44.7	21.3	61.7	12.8	44.7	2.1	8.5	
West Bengal	98.4	1.6	36.2	48.3	33.3	56.7	10.2	49.2	0.0	18.6	
Orissa	94.0	6.0	56.6	42.2	36.1	48.2	7.3	40.2	6.0	25.3	
Assam	100.0	0.0	81.8	15.2	16.1	54.8	10.3	44.8	6.7	33.3	
North-East	90.3	9.7	72.4	17.2	56.5	4.4	27.3	18.2	5.6	0.0	
Gujarat, Daman, Dadra	98.6	1.4	64.7	19.1	32.4	20.6	17.9	25.4	0.0	10.3	
Maharashtra/Goa	100.0	0.0	64.4	28.8	42.6	43.5	12.1	35.3	3.5	13.3	
Andhra Pradesh	100.0	0.0	76.6	16.0	59.1	26.9	11.8	15.1	3.3	10.9	
Karnataka	100.0	0.0	79.4	15.6	40.7	34.8	8.5	28.7	1.5	11.5	
Kerala	100.0	0.0	98.0	0.0	87.5	8.3	83.3	12.5	29.7	16.2	
Tamil Nadu/Pondicherry	98.3	1.7	76.5	15.7	53.9	32.7	36.4	41.8	12.7	10.9	

Notes: *Tables present unweighted summary from village questionnaires. These data are nationwide but not nationally representative. Source: IHDS 2004–5 data.

physicians are available in PHCs, with four to six hospital beds and an ability to provide preventive as well as curative services.

Private health services consist of trained allopathic physicians working in major non-profit hospitals or clinics, setting up their own private clinics, and running four to ten bed hospitals or maternity clinics, as well as licensed practitioners with training in ayurvedic or homeopathic medicine. Moreover, many paramedics also set up private practice, sometimes in conjunction with a pharmacy. Although pharmacists are not expected to provide prescription drugs without prescription from a licensed practitioner, most prescribe and sell medication with impunity (see Chapter 7, Box 7.2 for a description of private and government facilities surveyed by the IHDS). At the most elementary level, a private *dai* (midwife) provides help with childbirth as well as sundry illnesses. Most dais are not trained but come from families that have practised midwifery for generations. The percentages of sample villages with access to various forms of health care are provided in Table 12.7.

Sub-centres are poorly equipped and inadequately staffed. Households seem to have little trust in the treatment provided by these sub-centres. As Chapter 7 documents, even when a village has no other medical facility except the sub-centre, less than 30 per cent of individuals with a minor illness such as a cough, cold, or fever use the government facility, and more than 50 per cent travel outside the village to visit a private practitioner. The presence of a PHC or a CHC improves the usage of public facilities.

As documented in Chapter 7, many rural residents travel to a neighbouring village or town to seek medical advice and treatment. The journey often adds an additional

Table 12.6	Index of Government and Priva	te School Access in the Vill	age
		Mean Scho	ol Index
	All	Government	Private
All India*	2.73	1.95	0.78
Jammu and Kashmir	2.75	1.85	0.9
Himachal Pradesh	2.56	2.02	0.5
Punjab/Chandigarh	3.92	2.49	1.4
Haryana	4.29	2.52	1.77
Uttar Pradesh	2.74	1.58	1.16
Uttarkhand	2.3	1.55	0.75
Bihar	2.03	1.74	0.29
Jharkhand	2.12	1.46	0.65
Rajasthan	3.08	2.14	0.94
Madhya Pradesh	2.4	1.87	0.53
Chhatishgarh	2.14	1.78	0.37
West Bengal	1.94	1.62	0.32
Orissa	1.98	1.8	0.18
Assam	1.97	1.84	0.13
North-East	2.39	1.93	0.45
Gujarat, Daman, Dadra	2.17	1.87	0.3
Maharashtra/Goa	2.41	1.66	0.75
Andhra Pradesh	3.06	2.41	0.65
Karnataka	2.75	2.01	0.74
Tamil Nadu/Pondicherr	2.8	1.98	0.82
Kerala	4.57	2.44	2.13

Notes: Ranges from 1–5 including presence of primary, upper primary, secondary, higher secondary schools and college.

*Tables present unweighted summary from village questionnaires. These data are nationwide but not nationally representative.

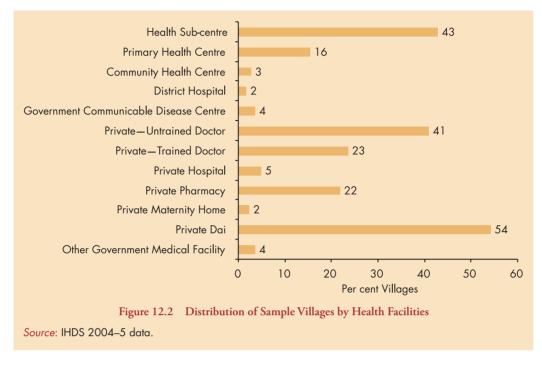
Source: IHDS 2004–5 data.

burden of travel expenditure to medical costs. Rural areas in the southern states have much better coverage than the rest of India (Table 12.7). While Kerala and Tamil Nadu have good coverage, with more than 70–80 per cent of villages having some kind of government medical facility, in Uttarakhand and Chhattisgarh less than 30 per cent of the villages have access to government medical facility within the village.

The IHDS data suggest that access to healthcare in Uttarakhand may be particularly problematic when we look at its lower availability of health facilities (Table 12.7) in combination with its absence of roads and easy access to buses (Table 12.3). However, caution should be exercised in interpreting these findings because the IHDS sample of villages is more limited than the sample of households, and it is difficult to make any generalizations based on this small sample.

Immunization programmes are found in all villages except in Bihar (see Table 12.8).

These programmes deserve special attention in light of the historic division in the Indian health care system. Maternal and child health programmes have usually fallen under the heading of family welfare and trace their origin to family planning programmes. The ANMs who provide immunization also provide family planning services, and their performance has been closely monitored with respect to meeting family planning acceptance targets. While this target-driven approach has been relaxed in recent years, it may well be that



this approach had set a structure for the delivery of immunization services. Nonetheless, even here, while most villages have access to immunization programmes, the actual immunization rates documented in Chapter 8 remain modest, with higher immunization coverage for polio (administered under pulse polio campaigns) than for other immunizations.

Surprisingly, in states like Andhra Pradesh and Kerala that have good government coverage, there is also a strong presence of private medical facilities. However, this is not always the case. States like Tamil Nadu and the states in the North-East, while enjoying fairly high levels of rural access to government medical facilities, have relatively few private medical establishments. On the other hand, states such as Uttarakhand and West Bengal have a much larger presence of private medical facilities than government centres. Among the states leading in the presence of the private sector in rural health care, Punjab (75 per cent), West Bengal (77 per cent), and Kerala (72 per cent) stand out. When we correlate the presence of private facilities with usage presented in Chapter 7, it appears that West Bengal and Punjab document high usage of private facilities. However, in Kerala which has the availability of private as well as public facilities, the use of private facilities for short-term or long-term illnesses is not very high.

Many people rely on private facilities even when they have access to government centres, reflecting greater confidence in the quality and the efficiency of private services. Whether this confidence is well placed remains open to question. Often these private dispensaries are run by untrained doctors. In villages surveyed by the IHDS, less than 25 per cent of the villages have access to private dispensaries with trained doctors. As documented in Table 12.7, about 41 per cent of the villages are served by untrained practitioners. They often treat common colds and fevers, prescribe antibiotics, and treat dehydration by administering oral rehydration therapies. Even some highly developed states like Haryana and Karnataka have a substantial presence of private facilities run by untrained personnel.

While most states have some facility for health care in villages, the facilities are faced with myriad problems ranging from lack of medical and other supplies, to the absence of medical personnel, and general lack of accountability. Drugs, in particular, often tend to be in short supply, and patients are forced to buy their own medication from private pharmacies. Doctors often don't want to live and raise their families in remote villages. Thus, although doctors may be on the payroll, they are often not available. For villagers, then, the option of having access to private untrained personnel may well be better than nothing. In the case of common illnesses, these practitioners seem to cure enough people that they have a relatively thriving practice. However, many untrained practitioners and pharmacies retain their reputations by prescribing antibiotics even for minor illnesses, a practice that may lead to long-term antibiotic resistance and may be harmful to long-term health.

COMMUNITY PROGRAMMES

In recent years, development practitioners have begun to recognize the role of self-help groups and NGOs in mobilizing the community and generating organic potential for development. The Indian government has also recognized this potential and has tried to foster the growth of such

Table 12.7 Per cent of Sample Villages with Different Types of Medical Facilities													
	Any	Any		Type of Govt Facility				Type of Private Facility					
	Govern- ment Facility	Private Facility	Sub- centre	Primary Health Centre	Commu- nity Health Centre	Govern- ment Maternity Centre	Private Doctor Trained	Private Doctor Untrai- ned	Private Hospital	Private Chemist	Private Mater- nity Home	Private Dai (mid-wife)	
All India*	52	52	43	16	3	4	23	41	5	22	2	54	
Jammu and Kashmir	50	30	45	10	5	0	5		0	15	0	25	
Himachal Pradesh	54	35	27	25	2	2	17	30	0	8	0	56	
Punjab/Chandigarh	56	75	49	11	3	5	33	23	3	46	2	87	
Haryana	56	85	44	11	0	0	16	64	5	13	3	85	
Uttar Pradesh	38	67	36	9	1	1	23	50	3	26	2	55	
Uttarkhand	15	50	10	0	5	10	30	66	0	25	0	55	
Bihar	49	51	43	10	0	0	16	50	7	30	5	75	
Jharkhand	39	54	35	8	0	0	31	46	0	12	0	46	
Rajasthan	60	43	48	13	5	7	15	31	3	15	5	68	
Madhya Pradesh	38	34	34	6	2	2	13	33	1	10	2	65	
Chhatishgarh	22	31	16	10	0	0	0	31	2	4	0	76	
West Bengal	49	77	44	11	3	3	17	29	9	23	0	65	
Orissa	57	30	46	13	7	6	13	68	0	17	1	32	
Assam	34	45	24	11	0	0	8	23	0	42	0	13	
North-East	67	15	45	30	9	3	12	45	0	15	0	30	
Gujarat, Daman, Dadra	29	65	26	4	0	1	50	9	3	7	0	79	
Maharashtra/Goa	50	50	45	15	2	3	42	53	5	30	4	80	
Andhra Pradesh	65	71	59	13	4	7	18	19	11	32	7	56	
Karnataka	61	40	51	23	2	3	23	68	1	7	1	20	
Kerala	80	72	70	66	16	3	57	14	39	70	7	15	
Tamil Nadu/Pondicherry	77	37	60	29	0	18	31	30	14	31	5	8	

Notes: *Tables present unweighted summary from village questionnaires. These data are nationwide but not nationally representative. Source: IHDS 2004–5 data.

organizations by providing direct and indirect support to them. In some cases, these voluntary groups work directly with government agencies and help in implementing government programmes. In others, they receive financial aid from the state. Other organizations have chosen not to be co-opted by the state and, instead, operate independently, sometimes as pressure groups working to ensure effective governance.

The IHDS collected information about the existence of a variety of programmes in sample villages. It is important to note that because the key informants were often village functionaries, there is a potential for the overstatement of various programmes. Nonetheless, Table 12.8 provides an interesting portrait of the presence of self-help groups, government programmes, and NGOs. To the extent that villages are able to promote their own development through the use of self-help groups and nongovernmental bodies, they may be able to substitute for, or supplement formal government programmes.

The success of states is often evidenced in the implementation of programmes. Even when there are programmes sponsored by the central government, the success rate and coverage of the programmes vary widely by state. Overall, the southern states stand out in coverage and implementation of government programmes.

However, the IHDS also suggests an interesting puzzle. Development discourse is suffused with an implicit or explicit assumption that when a state fails to reach certain areas or populations, the NGO sector has the ability to fill the vacuum. However, in the IHDS villages, the presence of

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an NGO sector is not independent of the level of economic development. The IHDS village survey asked about the presence or absence of the following programmes: *Mahila Mandal* (women's organization), youth groups, self-help groups, trade unions/professional groups, credit or savings groups, festival/ religious groups, caste associations, development groups or NGOs, agricultural or milk cooperatives, Panchayat Bhavan, *Pani* Panchayat (water cooperative), community centres, and community television sets. Figure 12.3 plots the number of these programmes reflecting social development in a village against infrastructure development discussed earlier (consisting of roads, banks, telephone services, and the like).

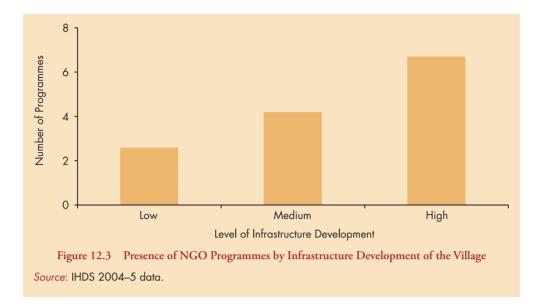
The results are striking. Villages that have higher infrastructure development also have greater presence of the community organizations. When we reflect on the nature of the non-governmental sector in India, this is not surprising. While the development discourse tends to view the voluntary sector as being rooted in local culture, given the symbiotic relationship between the state and the voluntary sector in India, it seems eminently reasonable that the voluntary sector thrives only where state penetration is more effective.

DISCUSSION

The urban–rural divide in indicators of human development has long been recognized. The contribution of this chapter is to focus on variations between villages in levels of infrastructure development. This provides a framework for interpreting the observation throughout this report that villages with higher levels of infrastructure development have far better health and educational outcomes than those with lower levels of development. These villages also have better employment opportunities and higher incomes.

· · · · · · · · · · · · · · · · · · ·	Table 12.8 Per	cent of Sampl	e Villages v	with Access t	o Different (Government	Programme	s	
	Safe Drinking Water	Sanitation/ Toilets	lmmun- ization	Midday Meal	Improved Stove	Agricult. Ext.	Micro- Credit	Widow Pensions	Old Age Pensions
All India*	61	55	89	87	35	37	49	87	88
Jammu and Kashmir	70	10	80	75	15	30	30	75	55
Himachal Pradesh	96	75	73	85	31	48	35	92	98
Punjab/Chandigarh	20	38	79	87	30	43	31	80	85
Haryana	67	41	96	89	42	35	46	95	95
Uttar Pradesh	78	78	80	77	44	15	71	93	96
Uttarkhand	61	83	78	83	56	44	22	94	89
Bihar	28	25	56	51	5	18	66	75	95
Jharkhand	12	4	89	77	0	0	15	69	81
Rajasthan	36	33	86	89	18	29	56	89	69
Madhya Pradesh	28	35	94	92	29	37	30	87	93
Chhatishgarh	43	23	92	89	30	30	28	96	98
West Bengal	58	66	56	94	14	11	44	61	92
Orissa	34	30	94	86	16	21	47	95	96
Assam	50	25	100	72	3	11	17	61	78
North-East	49	42	91	55	27	52	42	52	61
Gujarat, Daman, Dadra	60	36	100	99	24	63	23	83	61
Maharashtra/Goa	83	78	99	96	68	62	63	81	80
Andhra Pradesh	87	99	98	97	62	72	65	93	99
Karnataka	87	60	97	98	44	17	50	100	93
Kerala	78	94	100	76	60	82	80	100	100
Tamil Nadu/Pondicherry	83	80	93	97	42	51	66	98	95

Notes: *Tables present unweighted summary from village questionnaires. These data are nationwide but not nationally representative. Source: IHDS 2004–5 data.



What makes some villages more fortunate than others? Two factors play an important role: distance to district towns and greater infrastructure development in the state. While much attention has been directed to the economic growth in the six metropolitan cities-Mumbai, New Delhi, Chennai, Bangalore, Kolkata, and Hyderabad-the growth in secondary and tertiary cities has been overlooked. However, these smaller cities-Nasik, Surat, Allahabad, and others-are home to industries and government offices that provide a large number of jobs and serve as engines of growth to nearby rural areas. Thus, villages from which individuals can commute to these district towns become prosperous and manage to lay claims to development funds for road, school, and hospital construction. The second influence is more general. States differ considerably in their history and geography, which shape the level of institutional development. We don't fully understand the forces that have led to these different developmental trajectories. Some arguments suggest that land tenure patterns in colonial India, in which landlords were vested with significant power, had led to low investments in public infrastructure.² Others have emphasized differential development of Panchayati Raj institutions.³ Still others have focused on the role of social movements, such as the anti-caste movement.⁴ Regardless of the source, it seems evident that some states have better functioning bureaucracies in which the fruits of development reach far-flung villages, while villages in other states continue to struggle.

These are the villages that appear to be forgotten by the development surge—those that lack paved roads and experience scarcity of public transportation. It is in these poorly developed villages, in which 37 per cent of the IHDS households reside, that we find the lowest levels of human development: low school enrolment, poor learning outcomes, higher infant mortality, and low rates of vaccination. These are the villages where development efforts will have to be concentrated in order to ensure that human development goals are met.

HIGHLIGHTS

- Villages located closer to district towns have greater infrastructure development than those located farther away.
- More than 92 per cent of the IHDS villages have a government primary school within the village, but the availability declines at higher levels of schooling.
- Location of private schools is associated with the location of government schools. States with a better developed
 public education infrastructure also have a greater availability of private schools.
- Nearly 30 per cent of the IHDS villages have neither a public nor private health care provider within the village.
- Villages with a greater availability of infrastructure also have more access to non-governmental organizations.

² Banerjee and lyer (2005).

⁴ Omvedt (1993).

³ Rao and Walton (2004).