Evaluation of Jan Suvidha Complexes and Bastee Vikas Kendras in Delhi

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Evaluation of Jan Suvidha Complexes and Bastee Vikas Kendras in Delhi

Introduction

It is a common assumption that the poor live in low-income settlements. And that slum living and poverty coincides. As a result, figures for slums are generally calculated backwards from poverty estimates based on the income poverty line.

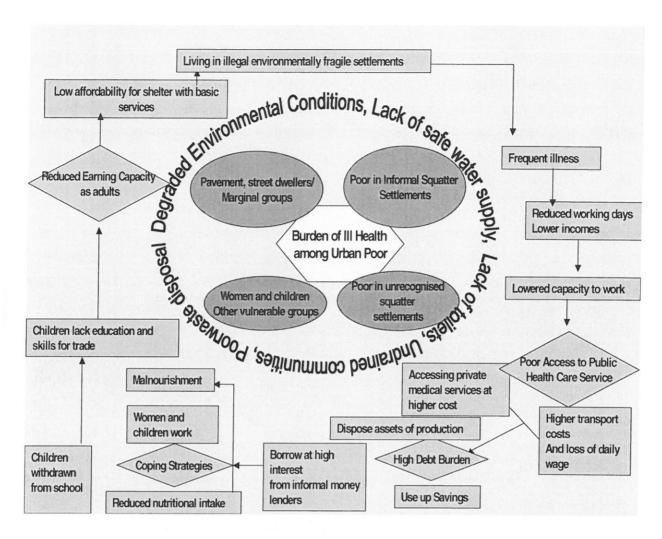
Census 2001 enumerated the population of Delhi at 137 lakhs of which 9.42 percent were said to live below the income poverty line. The exclusive slum survey undertaken in this Census however, estimated that nearly twice the number i.e. 16.6 percent or 2.27 million people live in low-income, underserved settlements called slums in the city.

Varying estimates of populations living in low-income settlements exist. While the survey undertaken by the Slum Wing in 1994 put the number of squatter settlements at 1080, that undertaken by NIUA in 2001 suggested that there were 1190 settlements in the city. Even as the number remained invariable, the location of many settlements had changed over time due to shifting of settlements to city fringes as land was reclaimed by DDA for housing purposes in the city. Besides, there was also a densification of the existing settlements suggesting that the number of poor households had increased considerably. Subsequent to the NIUA count, there has been a massive relocation drive in the city during 2000-2001 with likely implications on the number of settlements (CBIS-NIUA, 2001).

Poverty trends across the country and in Delhi indicate that level of poverty and number of people living below the poverty line has continued to decline. However those living in under served settlements appears to be on the rise. Numbers of households and population estimated to be living in squatter settlements was estimated by NIUA at 22.7 lakhs (CBIS-NIUA, 2001).

Low-income Settlements and Access to Basic Services

Several studies have indicated that lack of income is not the only factor responsible for household poverty. Lack of access to and availability of basic services such as water, sanitation and waste disposal are key factors that translate into opportunity losses and keep households poor. The Recursive Poverty Cycle that keeps poor households chained to their poverty is graphically represented here.



The Recursive Poverty Cycle¹

¹ Reproduced from Keynote Presentation by Dr. Renu Khosla at the Workshop on Urban Health, Bangalore, August 2003

The recent Tenth Plan document has redefined Poverty as vulnerability, recognizing that poverty is not just an outcome of low incomes but influenced by a range of conditions to which the poor are vulnerable. The Plan categorized poverty into shelter poverty, services poverty, and poverty of opportunities and choices. Further the Government has held exclusion of poor people from the processes of decision making or allowing them the opportunities of making an informed choice from a range of service options as responsible for sustainability of poverty conditions.

In spite of this acknowledgement by the government of the need to intervene in service delivery, a critical factor that prevents low-income communities from being integrated within the larger city fabric is their lack of land tenure. This is chiefly responsible for illegitimizing the stay of poor in the city, denying them access to basic services and precluding then from exercising their right to access city resources. Lack of a clear cut land tenure and shelter policy, both at a national level and at city levels, has contributed to maintaining the illegitimate /deprived status of the poor.

Provision of Toilets in Low-income Settlements

In the city of Delhi the Slum and JJ wing is responsible for providing basic services to low-income settlements or slums. The set of basic services for poor areas has been determined out of the EIUS programme package and includes water supply, sanitation, paved pathways, storm water drainage, electricity etc.

Sanitation services provided in these settlements by the Slum Wing have largely been in the nature of large community toilets or Jan Suvidha Complexes (JSC). Large amounts of money are invested in these complexes annually. However, despite this effort, sanitation situation in the settlements provided services does not appear to have improved. Estimates suggest that nearly 60 percent of the poor continue to defecate in the open. Even where toilets are provided by the local government these remain unutilized due to poor maintenance.

This study was an attempt at probing into the reasons responsible for the poor utilization of the service and to identify alternate options for improved sanitation of the city at large.

Provision of Community Halls

Besides, provision of toilets in the city, the Slum Wing has also been constructing community halls or Bastee Vikas Kendras (BVK) in slum areas with the objective of providing the poor common spaces for community

/development /cultural activities. These centers are to be managed with the support of the civil society organizations or NGOs. The study was also an attempt at understanding the usefulness of the BVKs to the poor with the objective of influencing the future planning for the poor.

Objectives

The overall objective of the Study was to assess whether the

- Objective of the Scheme had been achieved or not as per the Plan targets. If not, reasons for low achievements to be identified.
- Funds provided to the Slum department for the purpose are being utilized effectively in meeting the proposed targets
- Community Halls constructed so far are being fully utilized, and reasons for low utilization
- Physical achievements are in tune with the expenditure incurred under these schemes i.e. unit costs are reasonable and acceptable
- Arrangements for monitoring, planning and coordination of the Schemes are adequate
- Beneficiaries are satisfied with the services or not
- Arrangements for maintenance are satisfactory or not
- Measure instituted are sustainable
- NGOs are playing a useful role and how their role can be enhanced.

Review Of Literature

Not many studies have attempted to look into the condition of sanitation in cities. A few studies that have examined toilets are reviewed here.

According to a study of sanitation conditions including community toilets in 46 resettlement colonies in Delhi by Sabir Ali (1998) most community sanitation facilities end up in disuse primarily because of poor quality of construction material used and maintenance. On the other hand, Pay & Use toilets managed by Sulabh International are cleaner and are more optimally used.

Another study conducted by Osmania University on Environmental Improvements of Slums in Hyderabad (Prasad, RCUES, 1994), concluded that even as the community latrines were generally located at convenient places because of insufficient seats and inadequate water supply, the facilities remained under utilized. Wherever these toilets were functional and maintained properly, these had contributed to improved cleanliness and sanitation of the area.

The Study further indicated that municipalities showed little interest in using funds for construction of community toilets and where built, these were poorly maintained and not well patronized. Prasad wrapped up the discussion by adding "in several areas, poor quality of work.....has led to increased maintenance costs..... poor maintenance is leading to deterioration of amenities, especially community latrines.... thereby reducing the impact of the programme". Latrines with poor sanitation, says Khosla (2000), themselves become sources of pollution and disease for the poor in the community with women and children as the worst sufferers.

What are the implications of open defecation? For women? For girls? For children?

According to Khosla (2000) "gang rape of the young girl on her way to answer nature's call is a vivid affirmation of the harassment, molestation and indignity to which women/girls and young children in urban areas are exposed to in the absence of toilets. Besides being unsafe and undignified, open defecation is a serious health and environmental threat as pathogens from excreta contaminate soil and water causing disease and death. Absence of poor sanitation facilities exacerbates the health burden of the poor. In poor quality settlements families lose more workdays and a higher proportion of their income to illness. With the primary income earner being too sick to work, onus falls on children, interrupting their education and leading to children and family."

Provision of sanitation, says Khosla (2000) must be based on four principles. Firstly, it must be conveniently accessible to the user. People, especially women and children, need a toilet that is in their homes and if not there, at least close enough to ensure it can be used whenever needed. Secondly, these toilets must be clean to encourage regular use. Third, they must be easy to maintain. And finally everyone must have the opportunity to choose from a range of options. Given a choice people are found to opt for individual toilets or small units within easy reach.

Methodology

A two-step sampling process was used to identify the sample for the study.

Step 1: Using the list of 1080 low-income settlements in the city categorized by constituencies provided by the MCD, a filter was run to screen out all settlements with JSCs and /or BVKs. 376 settlements were found to have either or both the services. A random selection of 33 settlements was made from this list ensuring equal representation from each of the constituencies.

As part of the parallel EIUS assessment study, every tenth settlement had been identified for detailed investigations. These 25 settlements became the starting point for identification of the sample for the present study.

Step 2: From the selected 25 EIUS settlements, those that had both a JSC and a BVK were identified. Only 6 settlements in the list had both the services. Balance 19 settlements were identified through a process of replacement by going down the list till the next listed bastee with both services was found. In this manner, another 19 settlements were randomly identified for the study.

Since NIUA has been working in the slum settlements of Delhi as part of a project on "Improving Access of Urban Poor to Basic Services" supported by CARE India, it was decided to also include all settlements from among the 43 clusters in which NIUA has formed community based organizations with these services in the sample. An additional 8 settlements were thus added to the list. In all 33 settlements were therefore included in the study.

Some of the settlements (11) were found to have more than one JSC. All JSCs in the settlement were included in the study. Number of JSCs surveyed was therefore 46.

Sample

The final sample was as follows

Number of Settlements in the Study	Number of BVKs	Number of JSCs
33	31	45

Interview and observation Performa were developed for data collection. Apart from actual observations, discussions were held with community and women to understand the problems and concerns in using these facilities.

Interviews were also held with managers of the JSCs and the BVKs in the selected settlements and their records were reviewed.

The list of settlements visited and the number of JSC and BVKs observed in these settlements is annexed.

Part 1: EVALUATION OF THE JANSUVIDHA COMPLEXES

A. Macro Analysis

(i) Financial Progress

An outlay of Rs. 4850 lakhs was approved between 1990-2004 for Jan Suvidha Complexes (JSC) year, out of which Rs. 3961 lakhs was released by GNCTD and spent over the years. Details of approved outlays, funds released and expenditure for each year have been given in Table 1 below.

TABLE 1: YEARWISE APPROVED OUTLAYS, FUNDS RELEASED AND EXPENDITURE INCURRED UNDER THE PLAN SCHEME OF JAN SUVIDHA COMPLEXES

1/515	T.====		-	(Rs. in lakh)
YEAR	APPROVED	FUNDS	EXPENDITURE	REMARKS
	OUTLAY	RELEASED		
1990-1991	200.00	31.41	252.95	Rs.48.36
		+		Unspent balance
		269.90(Unspent)		
1991-1992	200.00	151.91	119.67	Rs.80.60
				Unspent balance
1992-1993	50.00	39.70	7.49	Rs.112.81
				Unspent balance
1993-1994	50.00	25.00	7.74	Rs.130.07
10011100				Unspent balance
1994-1995	350.00	1001.50	710.42	Rs.421.15
				Unspent
1995-1996	1400.00	479.12	902.23	
1996-1997	800.00	1100.00	1100.94	
1997-1998	400.00	100.00	100.00+	
1000 1000			580.50(CASDP)	
1998-1999	300.00	150.00	149.06+	
			783.94(CASDP)	
1999-2000	650.00	162.50	162.50+	
			789.42(CASDP)	
2000-2001	150.00	150.00	150.00+	
			907.00(CASDP)	
2001-2002	100.00	100.00	100.00+	
			597.49(CASDP)	
2002-2003	100.00	100.00	100.00+	
			298.24(CASDP)	
2003-2004	100.00	100.00	100.26+	
			331.79(CASDP)	
Total	4850.00	3961.04	3963.26+	
			4288.38(CASDP)	

(ii) Physical Progress

Since the inception of the scheme 427 conventional JSC's containing 14618 WC seas, 181 Prefab containing 4410 WC seats and 220 MTV's containing 3080 WC have been provided. Out of the 828 JSC's/MTV's, 165 JSC's containing 6418 WC seats were handed over to MCD and NDMC. 10 JSC and 40 Prefab containing 1256 seats have been demolished due to shifting of JJ clusters.

TABLE 2: YEARWISE PHYSICAL TARGETS & ACHIEVEMENTS UNDER THE SCHEME OF JAN SUVIDHA COMPLEXES

YEARS	PHYSICAL TARGETS	ACHIEVEMENTS
1990-1991	To initiate c/o JSCs	Scheme transferred to MCD General Wing.
1991-1992	-	However S&JJ Deptt procured 40 MTVs during this period Handed over to CSE Deptt In 1992.
1992-1993	To construct 07 Jan Suvidha Complexes	Possession of 6 Old Toilet locks has been taken over. 3 MTVs operationalized
1993-1994	27,700 Slum dwellers @Rs.440/- per capita	-JSC at Adarsh Basti, R.K. Puram containing 20 WC seats & 8 Baths completed and opened for public useAction for procurement of MTVs initiated -Work for initiating c/o 8 JSC's at an estimated amount to Rs.125.45 lakh remained under process for obtaining A/A & E/S.
1994-1995	To cover about 60000 Jhuggies/slum dwellers by providing JSCs and for stepping up purchase of 25 MTV's from 25 to 75. A reserve stock of 25 units is proposed to be created for unforeseen circumstances	-Work for 10 JSC's including 2 pre-fab containing 240 WC seats competed72 MTV's containing 1008 WC Seats operationalisedThus, 1248 WC Seats provided in 82 JJ Clusters for catering to the requirement of about 62000 Jhuggies/Slum dwellers through 10 Jan Suvidha Complexes and 72 Mobile Toilet VansWork for 126 JSC's containing 4127 WC Seats remained in progress.
1995-1996	-An action plan to initiate const. work for 12666 WC seats and about 7600 baths was drawn by Slum & JJ Deptt in Aug'99In 94-95 in the first phase work for 10 JSCs including two prefab containing 240 WC seats was completed with the estimated amount of Rs.72 lakhs an d72 MTVs containing 1008 WC seats were operationalise with the estimated amount of Rs.216 lakhsApart from this: (i) work for 126 JSC's containing 4127	-Works for 43 JSC's including (33p pre-fab containing 968 WC seats completed19 MTV's containing 266 WC Seats operationalisedThus 1234 WC seats provided for catering to the requirement of Jhuggies/Slum dwellers through 43 Jan Suvidha Complexes and 19 Mobile Toilet vansWorks for 110 JSC's containing 3500 seats in progress.

1996-1997	WC seats remained in progress with an estimate amount of Rs.1238.00 lakh. (ii) work for 40 JSC's containing 1300 WC seats were awarded with an estimated amount of Rs.390 lakh. (iii) Work for 54 JSC's containing 1556 WC seats were under award with an estimated amount of Rs.467 lakh. Work initiated in 1994-95 shall be	Works for 45 Jan Suvidha complexes
	completed and apart from this work for another about 2200 WC seats will be initiated, keeping in view the average estimated cost of about Rs.36000/- per WC seats/bath including departmental/admn. Charges an implementation charges	containing 1366 seats completed. Works for 73 JSC's containing 2519 WC seats is in progress
1997-1998	(i)To initiate C/o about 1100 WC seats (ii) To complete the on-going works initiated in 1996-97. * Revised Target: 250 WC Seats	-20 JSC's including prefab containing 630 WC seats under main scheme and 53 JSC's (including prefab) containing 1726 WC seats under CASDP opened for public use24 JSCs remained in progress (including CASDP)
1998-1999	-To initiate C/o about 800 WC seats under main scheme and 1900 WC seats under CASDP. -to complete on going works of 1997-98 Revised target – 400 WC Seats.	-24 JSCs containing 1715 WC seats under main scheme and 40 JSC's containing 999 WC seats under CASDP (including prefab) opened for public use10 MTV's containing 140 WC seats operationalised -Work remained in progress for 47 JSC's containing 1001 WC Seats.
1999-2000	The work initiated in 1998-99 to be completed and apart from this to initiate work for another about 500 WC seats under CASDP Revised Target: 300 WC seats (Main Scheme)	52 JSC's containing 1729 WC seats under CASDP and 28 JSC's containing 833 WC seats under main scheme (including prefab) opened for public use -14 MTV's containing 196 WC seats operationalised
2000-2001	The initiated in 1999-2000 to be completed and apart from this to initiate work for another about 350 WC seats under Main scheme and 1200 WC under CASDP	-11 JSC's containing 246 WC seats under main scheme and 23 JSC's containing 465 WC seats under CASDP (including pre-fab opened for public use) -13 MTV's containing 182 WC seats operationalised.
2001-2002	-To initiate the construction work for 200 WC seats under Main Scheme and 1500 WC seats under CASDPTo complete on going works of 2000-2001	-1220 WC seats including 30 MTVs containing 420 WC seats providedApart from that allied works like construction of boundary walls, providing hand pumps/pump house laying of sewer lines repair of prefab JSC's/MTV's in no. of complexes undertaken.(Physical achievements inclusive of progress under CASDP)

0000 0000	1	T.
2002-2003	-to initiate construction of 150 WC seats	Construction of 235 WC seats and 48 Baths
	under Main Scheme and 500 WC seats	has been completed. Due to Hon'ble High
	under CASDP.	Court's order dated 29.11.02 quashing the
	-To complete ongoing works of 2001-2002	scheme of Relocation of Squatter work, for
	To complete origining works of 2001 2002	initiation of 400 WC seats at Bawana
		Relocation pocket could not be take-up.
		-21 JSC's renovated
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		-25 Prefab containing 429 seats repaired
		-8 MTV's repaired (Physical achievements
		inclusive of achievements under CASDP)
2003-2004	-To initiate construction of 150 WC seats	-C/o 400 WC seats at Bawana completed
	under Main Scheme and 500 WC seats	-C/o JSC containing 39 WC seats and 7
	under CASDP	Baths at Narela Relocation pocket completed
	-To complete ongoing works of 2002-2003	-2 Prefab JSC containing 538 WC seats &
	, , ,	160 baths repaired
		-30 MTV's repaired (Physical achievements
		inclusive of progress under CASDP)

B. Micro Analysis

Toilet Availability and Outreach among the Poor

As per the list supplied by the Slum Department, only 376 JSCs had been provided for the 1080 low-income settlements in the city or approximately one third (34.81%) of the settlements had been provided toilet services. Of these 237 (63%) were of permanent nature and the balance 139 or 27 percent were prefabricated or mobile units.

Almost one third of the pre-fabricated structures were yet to be allotted in terms of maintenance, reducing the overall outreach among the poor. Since some large settlements had more than one JSC, coverage at a city level was much lower.

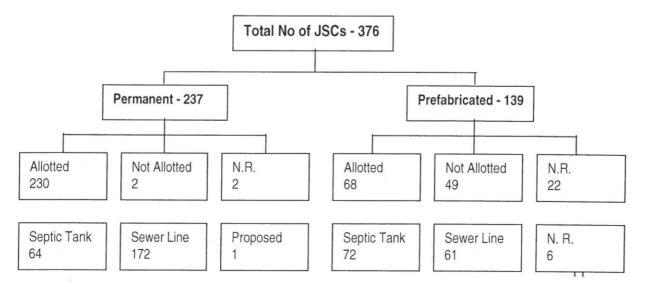


Table 3: Services in the JSCs

Туре	Total	Wate	r Conn	ection	Ty	pe of wate	Water Supply 24 Hours					
		Yes	No	NR	Tube Well	Tube Well Not Functional	H.P	M.C.D	N.R	Yes	No	NR
Permanent	237	224	1	12	231	6				230	7	
Prefabricated	139	122	17	0	116	15	4	2	2	121	13	5
Total	376	346	18	12	347	21	4	2	2	351	20	5

Table 3: Services in the JSCs (Contd.)

Туре	Total	Total Electricity Connection			An	Amount Charge Per User				Present Condition					
		Yes	No	Other	NR	One Rs	Rs 0.50	N.A	NIL	N.R	Average	Good	Poor	Not Functi on	N.A
Permanent	237	236	1			175	54			8	215	11		10	1
Prefabricated	139	113	20	1 Genset	5	54	9	67	4	5	90	9	1	24	15
Total	376	349	21	1	5	229	63	67	4	13	305	20	1	34	16

Source: JJ Slum Department, MCD, Mrach 2003

Nearly 8 percent of all JSCs were without water. In addition, another 5.6 percent had water supply which was non functional and about the same number had water supply less than 24 hours daily. Electricity connections were missing in 5.6 percent toilets, mostly in the prefabricate units, suggesting that these remained dark with possible low utilization. Together these complexes had provided 10484 seats covering 5,24,200 poor people. Coverage in terms of total slum population was therefore less than one fourth (23.09%) percent among the poor.

Only 12.5 percent toilets according to the MCD data were not charging money for use.

As per the Slum Department's own assessment, only 20 toilets were in good condition, whereas a majority of them were in average shape. While four permanent structures had been demolished, 19 prefab units were indicated as having been removed. Whether, these had been shifted to other areas or had been deemed to be unfit for use was not clear from the data provided.

Table 4: Status of Completion of JSC as on March 2001

TYPE	STATUS	NOS	SEATS
Conventional	Completed	192	5856
	Completed but not functional	7	278
	Demolished	4	76
Conventional Total		203	6210
Pre fabricated	Completed	119	2945
	Completed but not functional	24	528
	Demolished	19	488
	To be allotted	4	200
Pre fabricated Total		166	4161
Temp	Completed	4	113
Temp Total		4	113
Grand Total		373	10484

Source: JJ Slum Department, MCD, March 2001

Table 4: Status of Completion of JSC as on March 2001 (Contd.)

TYPE	STATUS	SUMMARY CODE	TOTAL
Conventional	Work Completed	Local area residents	4
		Ngo	187
		To be allotted	1
	Work Completed Total		192
	Not Functional	WC Non Functional	7
	Not Functional Total	7	
	Demolished	REMOVED	4
	Demolished Total	4	
Conventional	Total		203
Pre	To Be Allotted	To Be Allotted	4
Fabricated	To Be Allotted Total	4	
	Work Completed	Local area residents	23
	-	Ngo	85
		To be allotted	10
		To be removed	1
	Work Completed Total	119	
	Not Functional	Local area residents	1
		To be allotted	2
		WC Non Functional	21
	Not Functional Total		24
	Demolished	Removed	19
	Demolished Total		19
Pre Fabricated	d Total		166
Temporary	Work Completed	NGO	4
	4		
Temporary To	tal	2002	4
Grand Total			373

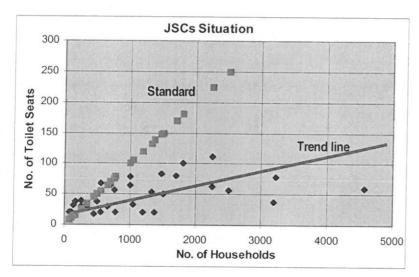
Source: JJ Slum Department, MCD, Mrach 2001

Data provided above indicates that there is no clear cut monitoring or tracking system in place. It is impossible to ascertain how many toilets were functional as the figures changed in different tables. As per Table 2 above 7.16 percent toilets were non functional.

Communities are not part of the process of planning for JSCs.

Data from the Sampled JSCs

The 46 toilets in the study were plotted on a squatter graph using settlement size as the comparative indicator. Data suggests that most toilets in the study came from small sized settlements with less number of seats. As per the standard norm for seat provision, 1: 50 persons, the trend line suggests that increase in settlement size did not correspond with increase in number of seats. Larger sized settlements were provided toilets that were not sufficient to provide an adequate service to the poor.



Graph 1: Distribution of toilets by settlement size

Functional Complexes

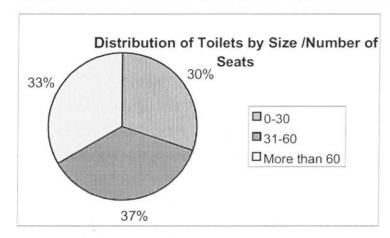
Almost all (95%) except two JSCs in the study were found to be operational. The two non-functional JSCs were at Mandi Pahari near Mehrauli and Bhim Bastee in Jonapur village. These had been locked ever since the day they had been constructed. Mandi Pahari had a caretaker appointed by the Slum Department who lived inside the complex and who kept the place locked. The community also confirmed this. Neither the caretaker nor the community was able to explain the reason for the toilet remaining locked. Since there was easy availability of open spaces in the area, people did not probe into the reasons for the toilet being closed.

In the second toilet, no caretaker was found and the number of seats and condition of toilet had to be assessed by climbing up the toilet wall.

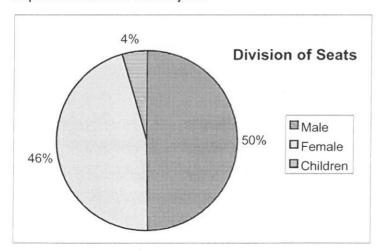
The fact that most JSCs in the study were found to be operational, indicates the felt need of poor people for this service.

Number of Toilet Units in the JSCs

Number of seats in the toilets ranged from 18 to 101 seats. The latter was really a cluster of 3 JSCs and together their seats added up to a 101. On an average a JSC had 38 seats. Toilets were categorized as those with less than 30 seats, those with seats between 31 and 60 and those with over 60 seats. A normal distribution of toilets was found in the sample, with equal numbers of large, medium and small toilet units.



Graph 2: Distribution of Toilets by size



Graph 3: Toilet seats by Sex

Total number of toilet seats in the complexes in the study was 1732. Number of seats for men was more than for women (46%). 4 percent seats were also provided for children (Annex 1).

Number of Bathing Units

Nearly 65 per cent of JSCs also provided bathing facilities. Number of bathing spaces varied from 2 to 39. Invariably, the complexes had more bathing spaces for men than women (52% for men and 48% for women).

Considering that children generally tend to use the female side of the toilets with their mothers, and that women have a greater felt need for toilets, there should be more bathing and toilet units in the female side of the complex.

Table 5: Number of Bathing Units

Male	Female	Total	
178	165	343	

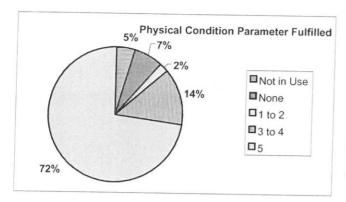
Adequacy of Units

As per government norms, a toilet seat is to be provided for 50 persons. Data indicates that on an average the toilet seat person ratio is 1:80, far exceeding the government norms. Since time series data on the population growth of the settlements was not available, nor was information provided on the date of toilet construction, it was difficult to gauge whether densifying settlements was responsible for the poor averages. Nevertheless, it is important that while building toilet complexes, projected population growth of the settlement may be used for planning the number of seats or a review may be taken once every 3 years and new toilet blocks added by building atop the old. In case of such planning, it would be necessary to ensure that the size of sewage pipes must be large enough to carry the additional load in the future.

Physical condition of JSCs

Physical condition of the JSCs observed, was analysed using five parameters, as these are likely to have an impact the utilization pattern.

The five indicators of physical conditions examined were the state of the roof (broken, leaking or intact), floor (broken or smooth), wall (cracked) doors (broken, with pr without latches) and WCs (broken, blocked). Nearly two-thirds (72%) of JSCs were found to have satisfactorily met all the criteria and were said to be in very good condition. Of these half or 15 had been recently constructed under the JBIC Yamuna Action Plan project. One tenth of the JSCs (9%) were in poor physical state of which 7 percent failed to meet all the five criteria of a well-maintained Unit. 14 percent JSCs satisfied between 3 and 4 criteria and could be said to be in fairly good condition. A small percentage (6%) were not in use.



JSCs in poor physical conditions were generally those being managed by private contractors appointed by the MCD. They lacked doors and the doors lacked latches/locks. Roofs were leaking and walls had large cracks. Ventilators were broken and without panes.

Graph 4: Physical Condition of Toilet Complexes

The electricity fittings were missing and there was no light inside most of these complexes. Water supply to the JSCs was insufficient with half the taps non functional. Women also complained that these were unclean from inside. WCs were broken and blocked.

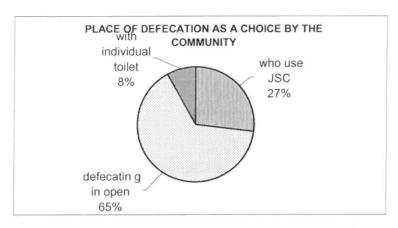
Only one sweeper was available in these complexes, whereas contractors were required to keep two, one female for the women's section and one for the men's section. Only 2 toilets had a woman sweeper present at the time of the visit. Children generally used the outside spaces as only few toilets (4%) had specially designed seats for children. Besides they were scared of going inside the toilets, as these were dark and dirty. In Machli market, the caretakers were also demanding money from children at the same rate as for women that reduced their use.

At Jaya Bharti Camp in East Vinod Nagar the sewer line itself was blocked and the toilet had been closed for maintenance work. The households were therefore, defecating in the open drain near the settlement.

Usage of JSCs

By providing JSCs to slum settlements, it was expected that people would use this facility rather than defecate in the open. Despite the provision of JSCs, the percentage of people in the communities using toilets regularly was extremely low (27%). 65 per cent of people continued to defecate in the open largely because of the condition of the toilets as also because these were very far from their homes. Since in a majority of cases, these settlements come up along city drains or waste dumps, or railway tracks, people found it easier to use the open. About 8 per cent families were found to have built toilets inside their huts and were using these. Often these toilets were in the nature of small pits that were then manually

scavenged to keep the household clean. However, even manual scavenging and dumping the fecal matter in the nearby open lands or waste dumps was preferred as these toilet pits were inside homes; convenient, private and safe.



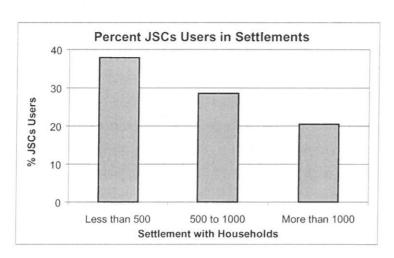
Graph 5: Use of Community Toilets

In Nehru Camp and Kalyan Puri, Block 17 and 21, the backs of huts were generally overhanging the open drains along which the settlements were located. Most houses had constructed a toilet in the back, where the fecal matter fell directly into the sewer. Settlements along the highway or near DDA parks used these for defecation.

By and large, local governments use one common option for sanitation in all low-income settlements; i.e. building large toilet complexes. Besides, being difficult to manage, these require large open spaces to be constructed and hence are built at one end of the community making access for people living in the middle and the other end of the settlement, inconvenient; who therefore continue to defecate in the open.

a. Use by Settlement Size

Data regarding use was correlated to settlement size. It was noted that smaller settlements tended to use JSCs more frequently whereas in larger settlements the use was less. This was possibly due to the fact that small settlements were compact and toilets could not be very far from individual homes. Also, highly congested conditions around small settlements left no open space and little scope for open defecation, pushing people into using these facilities.



Graph 6: Users by Settlement size

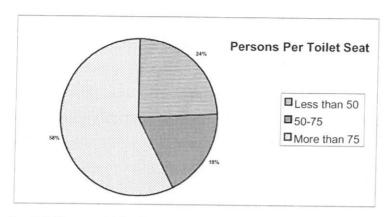
b. Use by Small Children

Small children, in almost all cases, did not use the JSCs due to their fear of going into the dark and poorly lit complex. Since toilet seats were adult sized, children were afraid of falling inside. Besides, parents were not comfortable about sending small children alone to these complexes without adult supervision. Parents also worried about children being abused, if sent alone. Children used toilets only when the mothers accompanied them for their own toilet activities and largely used the female section. Children defecating over small drains in front of their houses were a common sight in the settlements.

c. Users per Toilet Seat

Utilization patterns were used to estimate users per toilet seat. These ranged from 20 to 432. Invariably the large /densely populated communities had a high average use per toilet seat. It was decided to categorize users per seat by using the toilet seat norm of 1: 50. Almost 60 percent of toilets had a user-seat ratio of over 1:75. About 18 percent had a ratio between 1: 50-75 and one-fourth toilets had an average user ratio less than 50 per seat.

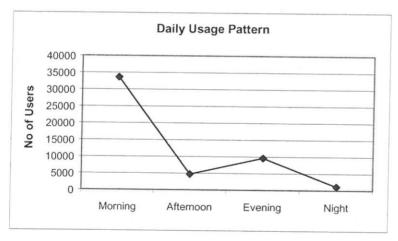
However, since only one-third households in the community were using these toilets, the average load was much lower a 22 for men and 31 for women.



Graph 7: Users per Toilet Seat

d. Total Number of Users per Day

On an average, 1097 persons used a JSC every day. Of these 403 were men, 521 women and 174 children. Pattern of use changed over the day, with toilets being extremely crowded in the mornings and evenings and least used during the afternoon.



Graph 8: User Pattern over the Day

e. Gender Differences in use of JSC

More women than men were found to use the toilets. On an average, there were 1.3 women users to every male user. However, in some bastis the ratio of women users was 3-5 times that of male users.

Two reasons were responsible for this. As men were expected to pay Re. 1.00 per use, they generally avoided this expenditure. Besides, there is no penalty on using open spaces for defecation. Women

preferred to use toilets as these offered more private /dignified space for defecation. Besides, women could use the toilets during the afternoons, if unemployed.

As per GOI guidelines, women and children are to be provided the service free of cost. While the use of JSCs was found to be free for children, in about two third JSCs women were being charged for use, although this was half the male rate at 50p per use. Women complained most about the user charges as they felt strongly that they needed private spaces for defecation and they did not have the affordability.

Accessibility of Toilet

Of the total number of toilets, 8 were in the middle of the settlement, while the rest were at the edge of the community. In Kabir Nagar, there were 2 toilets, one at each end of the settlement that was along a long railway track. Although there was one toilet near the community, a new toilet had been recently built, that too at a distance of 200 meters from the end of the settlement, making it difficult for the people to use it. Both the toilets were under utilized. Except for households that were close to the toilets, the rest of the families continued to defecate in the open. In Udham Singh Park, the toilet with 60 seats was almost half a kilometer away as the settlement inside an industrial area was highly congested with no space at all for construction of a toilet. Community women complained about the complex being far off and lack of safety, in particular during the winter season.

Payment for using JSCs

It was expected that maintenance of JSCs would be paid for by allocation of user charges. User charges varied between 50p to Re.1.00 for adults. In some settlements (51%) usage was free for women. For children (below 12 years) the use of JSCs was free in all the settlements. However, in Machli market the contractor was beginning to charge for child use as well. None of the JSCs had developed a monthly payment system that enabled families to pay lump sum towards use of the toilet during the month.

While no clear estimates were available on the expenditure per family, it was estimated that a family of 5, with 2 adults and 3 children, and an average use of the JSC twice a day, would have to pay between Rs 5 and Rs 7 per day for toilet use or Rs 150 -Rs 210 per month. The expenditure would rise with diarrhoea, a common health problem in these poor sanitary conditions. Since food and survival are key priorities for poor people, spending scarce family resources on toilets is generally deemed low priority unless there are clear advantages of using JSCs or people are motivated to do so, or there is some fine for using open spaces for defecation can habits of people be changed.

To analyze the impact of user charges on JSC usage, it was decided to undertake a gender-based analysis. Male and female users were filtered using different rate slabs charged for toile use. User charges were seen to have some impact on toilet use. In case of women, while user pattern did not change between free and charged services (free service use by women: 48.5%; charged service use by women: 51%), in case of men user rate dropped with rise in user charge from 34 percent when charged 50p to 32 percent at a charge of Re 1.

Average collections at a JSC were said to be about Rs.510, the range being from Rs.50 to Rs.2000 depending upon the size of the settlement and the availability of easy open spaces in and around the area. Average collection per seat was Rs. 12 per day, with a range between Rs. 2 to Rs. 43. However, these figures may be incorrect, as proper record had not been maintained by the contractors.

Maintenance of JSCs

Of the 45 JSCs 13 were maintained by Sulabh in partnership with other NGOs or through contractors appointed by them, 8 were managed by NGOs independently, and 10 by private contractors. Maintenance for 2 had yet to be decided. Sulabh International managed 11 JSCs. List of NGOs/ private contractors responsible for maintenance of toilets is given in annexure 4.

Toilets maintained by Sulabh International were cleaner. On an Average 36 % people were using toilets maintained by Sulabh as compared to 23 % in case of other units indicating clearly that toilet use rose with clean toilets. Even then, if the cluster was near the drain as in the case Anna Nagar, Vikas Kutir, only 15 percent people tended to use the toilet. Other NGO run toilets were almost in the same condition as those managed by private contractors. Toilets recently constructed though were in good physical shape.

A chowkidar and two sweepers are expected to be hired by the contractor to maintain and take care of the complex. However, only one sweeper was appointed in most cases, and as toilet complex size increased it became difficult for one sweeper to be constantly cleaning up.

All the JSCs had electric connections and water supply (except one), mostly through taps. Some also had hand pumps (n=3). In some toilets, faucets were missing and the place below was filled with waste and 'paan/gutka filled the drains. While more than half of the JSCs (52%) were connected to the sewerage system, nearly one-third (39%), were connected to septic tanks. One toilet was found connected to a soak pit. Some JSCs, as in Pitam pura near the TV tower and at Nehru Camp Mother Dairy, the toilets were built on top of the main drain and connected directly into it. In Kanchan Puri, the toilet had a septic tank.

However, as no settlements in the sample were along the riverbed, it was difficult to estimate if the waste was directly flowing onto the river.

Since information from MCD could not be collected, it is difficulty to comment on the contracting arrangements, target achievement, procedures, monitoring systems etc.

Part 2: EVALUATION OF THE BASTI VIKAS KENDRAS (BVKs)

A. Macro Analysis

(i) Financial Progress

An outlay of Rs 1765 lakhs was approved between 1990- 2004 for Bastee Vikas Kendras (BVK), out of which Rs. 1372 lakhs was released by GNCTD. Out of the yearly budget ranging from 50 lakhs to 300 lakhs, the outstanding amount not spent was either refunded back to GNCTD or adjusted while adjusting funds for the next year. Details of approved outlays, funds released and expenditure for each year have been provided in Table 6 below.

TABLE 6: YEARWISE APPROVED OUTLAYS, FUNDS RELEASED AND EXPENDITURE INCURRED UNDER THE PLAN SCHEME OF BASTI VIKAS KENDRAS

(Rs. In lakh)

YEAR	APPROVED	FUND	EXPENDITURE	REMARKS (Hs. In lak
	OUTLAY	RELEASED	LXI ENDITORE	NEIVIANNS
1990-1991	100.00	100.00	73.56	
1991-1992	50.00	50.00	119.31	
1992-1993	55.00	27.71	18.13	
1993-1994	60.00	50.00	12.14	
1994-1995	100.00	75.00	89.14	
1995-1996	300.00	262.50	166.34	
1996-1997	250.00	145.00	163.64	An amount of
				Rs.9616413.89 refunded on 1.4.1996
1997-1998	150.00	37.50	37.50+	
			138.29(CASDP)	
1998-1999	100.0	50.00	50.31+	
			251.94(CASDP)	
1999-2000	200.00	150.00	149.89+	
2222 2221			404.02(CASDP)	
2000-2001	100.00	100.00	100.00+	
0001 0000			455.00(CASDP)	
2001-2002	100.00	100.00	93.61+	
2000 2000			414.88(CASDP)	
2002-2003	100.00	125.00	112.40+	
			408.42(CASDP)	
2003-2004	100.00	100.00	60.63+	
			358.90(CASDP)	
Total	1765.0	1372.71	1246.78+	
			2431.45(CASDP)	

(ii) Physical Progress

Since the inception of the scheme in 1990, a total of 321 Bastee Vikas Kendras (BVK) and 29 additional floors on existing BVKs have been constructed. Due to shifting of poor communities from sites, 22 BVKs were demolished.

TABLE 7: YEARWISE PHYSICAL TARGETS & ACHIEVEMENTS UNDER THE SCHEME OF BASTI VIKAS KENDRAS

YEAR	PHYSICAL TARGETS	ACHIEVEMENTS
1990-1991	To construct of 30 BVKs	Work remained in progress
1991-1992	To complete on going works of 1990-91	35 BVKs completed
1992-1993	To complete the electrical works of 35 Basti Vikas Kendras though Civil work completed in 1991-92	Electrical works taken up for 35 BVKs
1993-1994	To initiate C/o BVKs in the squatter resettlement/Slum Upgraded pockets squatter settlements depending upon availability of land	-Work for C/o one BVK at Bindapur Dwarka completed while additional facilities were provided at another BVK in the JJ cluster at T market, Sriniwaspuri -1 BVK in progress -2 Community Halls in progress -1 BVK awarded
1994-1995	-To complete on going works -To initiate C/o 4 BVKs and 2 C.Halls -Maintenance, Operation and Annual Repair/Renovation of existing BVK	-4 BVKs completed -29 BVKs in progress -2 awarded -8 under award -13 Tender called
1995-1996	-To completed the work initiated in 1994-95 -In progress – 29 -Awarded – 02 -Under award – 08 -Tender Called - 13	-39 BVKs completed -21 BVKs in progress
1996-1997	To complete the on going works for large no.of BVKs which were initiated in 1995-96	-22 BVKs including 1 Prefab completed -Work for 11 BVKs remained in progress
1997-1998	-To initiate C/o 10 BVKs (main) +No target under CASDP *Revised Target – 3 BVKs -To complete on-going works initiated in 1996-97	UNDER CASDP -9 BVKs completed -4 BVKs remained in progress MAIN SCHEME -3 BVKs completed -2 BVK in progress
1998-1999	-To initiate c/o 5 BVKs+one C/Hall (Main) 12 BVKs and 3 C.Hall under CASDP *Revised Target – 4 BVKs (Main scheme) -To complete on-going works initiated in 1997-98	UNDER CASDP -21 BVKs completed -14 BVKs remained in progress MAIN SCHEME -4 BVKs completed -3 BVKs remained in progress
1999-2000	-To initiated C/o 5 BVKs and One	-25 BVKs completed

	C.Hall (Main) 15 BVKs and 2 CFCs(CASDP) *Revised Target – 5 BVKs(Main scheme) -To complete on-going works initiated in 1998-99	-5 BVKs remained in progress (Under Main Scheme as well as under CASDP)
2000-2001	-To initiate work for C/o 10 BVKs (Main) 40 BVKs+2 CFC (CASDP) -to complete on-going works initiated in 1999-2000	UNDER CASDP -43 BVKs completed -21 BVKs remained in progress MAIN SCHEME -3 BVKs completed -6 BVKs remained in progress
2001-2002	To initiate C/o 4 BVKs (main) and 30 BVKs and 2 CFCs & 30 BVKs (CASDP) -To complete ongoing works of 2000-2001	MAIN SCHEME -3 BVKs completed -6 BVKs remained in progress UNDER CASDP -30 BVKs completed
2002-2003	To initiate work for C/o 6 BVKs (Main) & 30 BVKs (CASDP) -to complete on-going works initiated in 2001-2002	-25 BVKs completed -17 Addl. Floor on existing BVKs constructed -Apart from that allied works like construction of boundary walls, Prov. Of Pump House, CC Paving upto approach roads and other minor repairs/alternations were also undertaken in no. of BVKs
2003-2004	-To initiate the work for c/o 25 BVKs and also to complete the on-going works initiate in 2002-2003 (including targets from resources available under CASDP)	-23 BVKs constructed -3 C.Halls constructed -5 Addl. Floors on existing BVKs construction -ARMO of 60 BVKs undertaken (including repair/renovation/electric works) (Under Main Scheme as well as under CASDP)

B. Micro Analysis

Basti Vikas Kendras (BVKs) have been provided to low-income settlements as multi-activity centers that provide space to communities to organize a number of common activities.

The Slum Department has constructed 360 BVKs over the years. Of these, 300 have been allotted to NGOs for different activities and 44 to different government departments. The rest 16 are not in use.

100 BVKs have been permanently allotted to the concerned agency/NGO. In case of the others, these are provided to NGOs for a fixed period of time ranging from 6 months to 5 years. Most permanent allotments are to the government departments, especially to health and education departments for running dispensaries and school classes. List of activities being undertaken in the BVKs is in Table: 4. Since BVKs are especially for use of communities, their allotment to government offices defeats the very objective of their being built and is a waste of precious resources of the Slum Wing. Besides, other departments have their own budgets for construction.

Table 8: Activities Run in BVKs

Sr. No.	Activities	Nos.
1	Informal Education and Vocational Training	228
2	Medical Dispensary	90
3	Informal Education and Vocational Training and Medical Dispensary	3
4	Medical Dispensary and Non-Formal Education	3
5	Technical Education	1
6	Death and Birth Registration	1
7	Health Medical	3
8	Street Children	1
9	Primary School	2
10	Ration Shop	1
11	Library	2
12	Non- Formal Education	1
13	Vocational Training	1
14	Counseling	1
15	Orphans	1
16	Cancelled	4
17	N.R.	17
	Total	360

Source: JJ Slum Department, MCD, Mrach 2001

The Slum Department charges an annual rental of Rs.100 from the NGO/department irrespective of the size of the BVK.

Functioning and maintenance of BVKs

Of the 30 BVKs in the study, nearly one fourth or 23 per cent were non-functional. One tenth (3) of these were found locked as these had yet to be allotted to an NGO or CBO. These BVKs were built in 2000-2001, and the procedure for contracting was yet to be completed.

Table 9: Use of BVKs and their maintenance

	BVK maintained by		
BVK use	Government	NGO	Grand total
Not used	7	-	7
Used	4	19	23
Grand total	11	19	30

Source: Primary Survey NIUA: 2003

As part of its policy, the Slum Department allots BVKs to NGOs/CBOs who approach the Department for conducting various developmental/ welfare activities for the poor. Nineteen BVKs had been assigned to various NGOs (list at Annex 3) while the rest 11 BVKs remained in the control of the Department.

All BVKs given out to NGOs had regular activities for settlement dwellers. In case of Departmental BVKs however, only 36 percent had some activities underway. Instances, as in the JJ Cluster Prabhu Market, Lodhi Road, of BVK being under the control of the Bastee pradhan were noted. However the community could continue to use these for their social and cultural events.

The Naglamachi BVK was being used by the MCD to run the primary school. In Khazan Bastee, Maya Puri Industrial Area, one room of the BVK was occupied by an MCD sweeper and used as residence, while the rest of the rooms were locked.

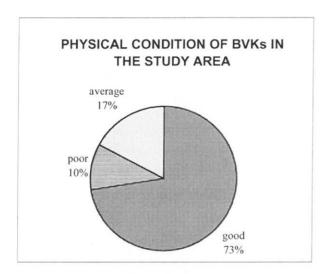
Several centers such as in Bhim Bastee, just the board of the NGO hung outside and the community reported no activity.

In V P Singh Camp, near Tughlakabad, when the settlement was demolished in July 2002, the BVK was demolished along with the settlement, leading to a colossal waste of resources.

Physical condition of BVKs

Physical condition of nearly three-fourths of BVKs was good while 10 per cent of BVKs were in poor physical state. In Vikas Puri, the BVK was flooded with sewer water from the nearby park. It was difficult to even walk up to the entrance of the center. In Pitam Pura, the center had no light, however, since it was used only during the day, lack of electricity was not missed.

Banwal Nagar BVK was extremely small. It had only 2 rooms and the space was insufficient for use by the community for its cultural activities. One third of BVKs were without electricity and one tenth had no facility for water supply. Lack of such facilities reduces full utilization of the BVKs.



Graph 9: Physical Condition of BVKs

Activities in BVKs

A range of activities happened at the BVKs with the support of NGOs. These included

- 1. Education center (53%)
- 2. Sewing center (40%)
- 3. Dispensary (23%)
- 4. Marriage parties (3%)
- 5. Special school for mentally retarded (3%)
- 6. Vocational course (17%)
- 7. Advocacy and awareness building (3%)
- 8. Old age home (3%)

Most common activities at the BVKs related to education i.e. running of pre-school centers or balwadis. Sewing classes were also very popular for women. Some BVKs ran a dispensary from their premises as in the case of Machli Market. A few BVKs organized vocational courses for community members. A special school for the mentally challenged at Jaya Baharti Camp by Chahal and an old people's home at Sambhav Camp, Mandi Pahari respectively by Zion Social Welfare Society were also functioning from these centres. These services were provided to the settlement people during the day.

Since activities like preschools /sewing classes/vocational training happened regularly, almost all the functional BVKs were being used daily.

With a few exceptions, the BVKs were serving all in the community and all were allowed to use these centers. In fact in some settlements, middle and upper income neighbourhoods were also found to be using the BVKs for their activities.

NGOs

18 NGOs were found to be managing the BVKs in the sample. NGOs paid only an annual rental and were responsible for the maintenance of and payment of the electricity and water charges.

Sewa Bharati had the majority of BVKs (8) allocated to them and ran just 2 types of activities i.e. sewing and preschools.

Recommendations

Jan Suvidha Complexes

1. Use a range of sanitation options: Provision of sanitation is an important responsibility of the Slum Department and essential for the health of the poor and the city. However, the low utilization pattern of JSCs suggests that perhaps large toilet complexes are not the only solution to the problem. Range of options has been tried across the country successfully that include provision of individual toilets, smaller blocks of toilets spread within the community and large toilet complexes. Slum Wing must review these before developing sanitation plans.

Plans for service provision can then be flexible and determined by the nature of the settlement, its size, density, spread, nearness to a drain etc. Number of units in large toilet complexes could be determined on the basis of the population of that area rather than be decided upon by other considerations such as money/space availability. Units for men and women would then not be equally divided but take into consideration needs of young children and the fact that child units are located within the female section.

People generally prefer individual toilets as these are both private/safe and easily accessible. Besides, children can use these without being afraid. In the city of Ludhiana, 93 percent poor households had built their own toilets either individually or as groups of neighbourhood families. Individual toilets reduce cost of maintenance (i.e. hiring of sweepers and equipment) to the government as these costs are transferred to the families.

In large cities where individual toilets may be difficult to build due to paucity of space and the fear of evictions/resettlements preventing people from investing in upgrading their own services, the Slum Wing may consider smaller blocks with fewer units spread across to improve access and utilization.

 Community O &M Contracts Operations and maintenance are generally contracted to either NGOs or private contractors and perhaps a key reason for poor utilization of the service, as there is hardly any buy in from the communities. It is important that contracts for maintenance be given to the communities, rather than private contractors. This would ensure a sense of ownership among community members, persuading them to use these facilities rather than the open.

- 3. User Charge Affordability /Family-Monthly Card Systems Since a majority of toilets in the study had been constructed in the past two years and were in relatively good condition, their low utilization may be attributed to low affordability of user charges. It is important that the per use payment system be replaced by a monthly family card system for residential settlements. Communities themselves can decide the rate of monthly charges based on affordability levels rather than a centrally determined charge as is happening at present. The communities may be encouraged to plan a variable rate (with the poorest being charged the least) so that the poorest families can also pay for the service. The decision regarding who belongs to the category of the poorest must be left to the community with transparent indicators for identification of the most vulnerable groups developed by the community. The process can be facilitated with the support of local NGOs working in those settlements.
- 4. Awareness/advocacy for toilet use Once there is community consensus over the user charge, communities must be encouraged to be part of the system. NGOs may be invited by the Department to help change toilet practices in the community. In particular children must be trained to use the toilets rather than defecate over the drains.
- 5. Penalty for Open Defecation in settlements where services have been provided after consultation with the communities Settlements where communities have been part of the planning process must start to charge a penalty from those who defecate in the open. The communities can use this fund for ensuring cleanliness in the rest of the settlement or for upgrading the toilets/repairing and maintaining them over time. Reasons for continued defecation in the open must be understood and alternate solutions found. For example if most of the open defecation happens after the closing hours, then there may be a need to extend the toilet timings or have a 24-hour facility.
- 6. Inclusion of Communities in planning and construction of toilets Communities have up till now been out of the planning loop for delivery of municipal services, including for construction of toilets. Planning for toilet building must be inclusive. This would help the department to identify the appropriate space (s) in the communities for toilet construction, estimate demand and supply, mobilize communities for toilet usage, plan community contracting for operation and maintenance.

Inclusive planning not only reduces the cost of construction as has been seen in the recent experience of toilet constructions under the Nirrmal Bharat Abhiyan in Pune and Mumbai with the support of SPARC, but ensures that clean toilets with suitable designs and affordable rates are available for the people.

- 7. Line of Credit A line of credit needs to be established with the support of local NGOs like the Sulabh International or SPARC for private toilet construction. Efforts must also be made, where spaces permit, to link communities to the EIUS /LCS programme for accessing credit and subsidy for toilet building. This should be supported even in areas that do not have legal tenure/ authorization.
- 8. Tenure to Settlements Security of tenure to squatters has been seen to encourage people to upgrade their own households and to create their own sanitation solutions. This will in the long term reduce tremendously the cost to the Department for toilet building and demolition in the event of relocation.
- 9. Cost of Toilet Construction and Maintenance In the absence of data from the slum wing it is difficult to estimate the cost of construction of the toilet complex. However, to do a simple cost benefit analysis, costs provided for under the Nirmal Bharat Abhiyan (NBA), at Rs40000 per seat are being used to compare with Rs.1200 (Rs.800 as credit and Rs.400 subsidy) provided for individual toilet building under the LCS scheme.

Per person toilet cost of a large toilet complex under NBA is Rs.4 lakhs for a 10 seater (40-50 square meters) and 8 lakh for a 20 seater complex that includes construction of building, overhead tank and pumping system. Local body has to provide for power and water supply. To factor in the additional costs of material and labour in larger cities, the cost per seat has been increased to between Rs40000 and Rs60000, but was expected to use the principle of economies of scale and be brought down. Retrofitting /remodelling of old complexes was provided at 15000 to 20000 per seat. Higher costs for remodelling were discouraged and preference was given to new constructions. In addition, if municipalities have to spend money on hiring of sweepers and watchmen and pay for the regular maintenance of the complex.

On the other hand at individual toilets at Rs1200 that are used by a family of 5 means that government need spend only Rs12000 rupees for construction of 10 toilet units as against 40000 in

a toilet complex. Of this amount, Rs8000 is loan that families have to repay to the government. There are no maintenance costs to the government in case of individual toilets. It therefore makes more economic sense to spend on subsidizing individual toilets

Vambay scheme also offers loans to poor families with a ceiling in normal areas at Rs35000 for construction of house including sanitary latrine and in difficult areas at Rs37500. In addition the scheme provides an additional Rs5000 /Rs7500per house as cost of development of infrastructure and common. The amount provided for toilet construction on toilet complexes is therefore far too high.

Bastee Vikas Kendras

- 10. Improving Utilization of BVKs Creating of community assets in the form of BVKs is an important intervention that helps build community feeling. It also provides space for a range of development and cultural activities that the communities wish to engage in. BVKs sub optimally utilized, however there is tremendous potential for use of these community assets. Utilization of BVKs will improve if the activities organized in these centres are those that the communities prioritise as important.
- 11. Management of BVKs for better access At present pattern BVKs are being managed by NGOs. However, the management of these community assets must be gradually transferred to the local community groups. Care must be taken to ensure that these are not politically motivated organisations. With the community in charge of the centres, there is greater likelihood of the centres being used more frequently. However, care would need to be taken that the centres are not misused for nefarious/criminal activities.

As many of the centres allotted to NGOs were found to be under utilised/closed with just the NGO boards outside, it is important that MCD review /monitor the use of the centres on a regular basis and cancels allotments of unused centres. Communities may be involved in the monitoring of the centres.

12. Use of BVKs as Information/Resource/Placement Centres BVKs can serve as information/placement centres for the community people as is being done under the NIUA-CARE Plus project in Delhi. These can be used as places for development of livelihood opportunities and

skills among people through organization of workshops etc. Apart from holding cultural programmes people need information on opportunities and government programmes that are available and to be connected to these opportunities. These can also serve as marketing outlets for products developed by the poor.

- 13. Transparency in procedures of allotment There must be greater transparency in procedures for allotment of the centres and the final selection must be made in consultation with all the community members.
- 14. Use of BVKs by upper income clusters in Neighbourhoods may be discouraged as it leads to gentrification and prevents the poor community people from accessing these who hesitate to utilise the service.

Annexure: 1

List of Sampled Settlements.

Sr.No.	Addresses	No. of BVKs	No. of JSCs
1.	Kanak Durga R.K.Puram Sector XII,, Nr. Ring Road, Moti Bagh Delhi	0	2
2.	Ram garh, J.J.Cluster, W.P.Indu. Area, Near Celebration Ring Road New Delhi.	1	1
3.	Rajeev Gandhi J.J.Cluster Chitra Vihar Near Preet Vihar, CBSE, Chitra Vihar Delhi.	1	1
4.	New Seelam Pur K.Block, J.Block, Seelam Pur Delhi.	1	1
5.	J.J.Cluster – Machali Market Machhli Market, Nazir pur, B.Block, WP.Land Area Delhi.	1	1
6.	J.J.Cluster K.Block Jahageer Puri, (Near I T I) Delhi	1	1
7.	J.J.Cluster Awas Nagar Near Vikash Kuteer I.T.O., Delhi-2	1	1
8.	Rajeev Ghandhi J.J.Cluster Near Punjabi Bagh Club Dehi.	1	1
9.	J.J.Cluster Prbhu Market Lodhi Road, Near Nehru Stadium New Delhi	1	1
10.	Kabir Nagar Rana Pratap Bagh Delhi	1	2
11.	Jai Bharti J.J.Cluster East Vinod Nagar, Near Mother Dairy Delhi	1	1
12.	Sanjay Camp Lakkar Mandi Near Cheena Bhatti, Kirtee Nagar Delhi	1	2
3.	Kanchan Puri, J.J.Cluster Power House Near Raj ghat Delhi	1	2
4.	Nala Basti, (Near Shamshan Bhumi,Hasthal) 1HASTHSHAL Near Cremation Ground)	1	1
5.	Indra Camp NO.5. Vikas Puri Delhi	1	1
6.	Khajan Basti G-113,117,116,120, Maya Puri Indus. Area	1	2

47	L.I. Charter Manuela Manuela		
17.	J.J.Cluster, Nangla Machi, Near Prgati Maidan New Delhi	1	2
18.	J.J.Cluster, Old Seema Puri Near cremation Ground, Old Seema Puri Behind Sun light Colony	1	2
19.	Janta Jewan, J.J.Cluster Tigre I-II	1	2
20	Nehu Camp Near Mother Dairy Delhi	1	1
21.	J.J. Cluster, Bhim Basti Jauma Pur Village	1	1
22.	J.J. Cluster, Mandi Pahari (Sambhar Camp), Mandi Pahaari	1	1
23.	Sant Ravi Das Camp K.G. II Vikas Puri, Near Vikas Puri Delhi	1	1
24.	J.J.Cluster, Patel Chest, Mukhrjee Nagar Delhi	1	1
25.	Thakur Ravander Nath, J.J.Cluster East of Kailash, Lajpat Nagar Delhi	0	1
26.	Pd. R.P. Vismil, J.J.Cluster Shashi Garden , Near ITI Tirlok Pur Delhi	1	2
27.	J.J. Cluster Samai Pur Balmiki Basti Near Mcd Coconex, Prem Nagar Rohini – Sector-19.	1	2
28.	J.J.Cluster, B.P.Singh Camp Tugalkabad (Container Depot) Delhi.	Demolished	1
29.	J.J.Cluster, Moti Lal, Near Old J.N.U. New Delhi.	1	1
30.	J.J. Cluster, Banuwal Nagar, Near Depali Enchave, Pitam Puri Delhi.	1	1
31.	G.P. Block Pitam Pura, Sanjay Sudhar Samiti, Near T.V.Tower Delhi.	1	2
32.	17-21 BLOCK, KALYAN PURI Kalyan Puri Delhi.	1	2
33.	J.J.Cluster, G.Block Mangol Puri Delhi.	1	1

Annexure - 2: Jan Suvidha Complexes - 2003

Settlement No.	JSC in the	households in	population of settlement	using JSCs	households with	households using JSC	defecating in the	in using JSCs			rayment system		use of toilet	children defecate	Why don't children use JSCs	hildren use Ss
							ļ		individual	Per use for men	Per use for women	Per use for children		3	Safety	fear
1						27.3030303	64.93939394								9	
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	Edge	495	2475	0 66	0	20	80		Comment of the Commen		0.5	u u	PONCE	200		1
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T	Centre	550	2750	138	09	25	15		. >	-	. 4	. L	ONCE	OD.RL		^
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T	Edge	2250	11250	788	0	35	65		7	0.5	0.5		ONCE	SO		
1	Edge	1325	6625	199	0	15	85		>	-	L	u.	ONCE	OD,RL		
	Edge	140	700	77	0	55	45		7	0.5	0.5	L	ONCE	OD,OR	7	
	Edge	80	400	40	10	50	40	CHARGES	7	-	L	L	ONCE	SO'GO	7	***************************************
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rordi				0							ш	L	ONCE			
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T	9			0)				>	-	-	_ L	ONCE	25,03	>	
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-	Edge	760	3800	304	0	40	09	CHARGES	7	-	L	ш	ONCE	so		7
				О								L	ONCE			
	Edge	4560	22800	456	25	10	65		7	-	0.5	ц	ONCE	SO	7	
			The state of the s	0								L	ONCE			
	Centre	1375	6875	151	20	-	69	CHARGES	>	-	L	L	ONCE	OS'OD	>	
Ī	Edge	250	1250	0	0 0	0 0	100			-	L.	L.				
	Edge	350	1750	88	0	25	75		>	0.5	0.5	4	ONCE	SO		
	Centre	106	530	64	10	09	30	CHARGES	>	0.5	L	L.	ONCE	QO		
	Edge	1200	0009	192	40	16	44	CHARGES	>	0.5	u.	4	ONCE	SO'GO	>	
	Edge	550	2750	143	2	26	72	CHARGES	7	-	-	u.	ONCE	OD,OR		
				0								u.	ONCE			
T	Edge	1700	8500	425	2	25	73	CHARGES	>	-	-	L.	ONCE	RL,0S		
	i	000	000	0		,	4					L.	ONCE			
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	Centre				አ	35	10				U	_	ONCE	000		
	Edge					3)		1	-	-	- 4	ONCE	5000	>	
1	Edge	250	1250	75	0	30	70	CHARGES	7	-	0.5	. L	ONCE	OSOR		***************************************
1	7	Contraction of the Contraction o	-		The second secon											

If yes, how many for 6 6 19 4 4 4 3 3 3 Bathing /es/No > > > > 4 A.M.-11 P.M. 4 A.M.-11 P.M. 4 A.M.-11 P.M. 5 A.M.-10 P.M. 5 A.M.-10 P.M. 5 A.M.-11 P.M. 5 A.M.-10 P.M. 6 A.M.-9 P.M. 5 A.M.-11 P.M. 5 A.M.-10 P.M. 5 A.M.-10 P.M. 5 A.M.-10 P.M. 5 A.M.-10 P.M. 5 A.M.-11 P.M. 6 A.M.-8 P.M. From -Vight No. of users by time of day 275 300 400 38 38 50 155 Afternoon 1100 250 250 250 100 100 250 250 250 250 250 250 30 100 150 350 350 000 000 400 8600 700 200 250 250 600 400 200 200 90 90 100 100 150 150 150 150 150 100 100 200 200 200 200 300 350 475 No. of users per day 350 200 100 100 200 150 350 350 350 350 350 350 350 350 350 Men 3300 3300 3350 3350 3350 3350 3350 3300 3000 1000 otal Children 2 2 No. of seats for Total no. of seats User households per JSC 9 #DIV/0! 2 0 4 8 m m w No. of households per seat 18 #DIV/0! 86 39 22 11 22 11 32 22 22 22 22 25 5 5 4 4 Population per seat 90 #DIV/0! 432 108 55 688 3380 3380 27 27 27 27 27 26 61 195 223 159 138 111 179 123 20 20 207 No. of seats in the JSC 20 20 89 33 33 20 54 54 78 Settlement No.

Annexure - 2: Jan Suvidha Complexes - 2003

H= Handpump

Other Societies Who cleans the toilet contractor Sulabh NGO sweeper Municipal NGO sweeper maintenance plan Is there a Yes/ No (in sq. m.) Cleanliness Area of JSC 250 250 250 250 250 250 250 300 300 300 300 500 500 Good/ avg./ poor 0 0 0 0 0 0 0 0 0 0 O 000 GP O O . . 0 0 0 0 O 0 0 0 0 ۵ O O Water storage | Connected to | Swewer system | sewerage | functioning Yes/ no Septic Tank sewerage system Yes/ no Septic Tank Septic Tank Septic Tank > > NS= No Supply Continuous Yes/ No Water supply T= Tap Ŧ 王 L L H IN H Bulbs Electricity zz Provision for safety/ maintenance Sweeper Chowkidar Settlement No.

Annexure - 2: Jan Suvidha Complexes - 2003

Total PHYSICAL CONDITION ROOF | FLOOR | WALLS Resource Mobilization 2 2 2 2 2 2 2 2 2 2 2 °N 2 2 2 9 9 2 2 2 2 2 2 2 2 8 2 2 2 2 2 S. Community 0 0 0 0 0 0 0 0 0 9 8 °N 8 8 8 °N °N °N 2 2 2 2 2 2 2 °N 2 2 2 2 ^oZ ^o2 Community involved in Construction 8 8 8 8 2 Supervision of Construction 2 2 2 2 2 2 2 2 2 2 8 8 2 2 2 2 2º å 2 2 2 2 2 2 2 ^oN 2 2 2 2 °N 2 Desing / planning 2 2 2 2 2 2 2 2 2 2 2 2 2 2 9 N S. 9 2 9 2 2 2 2 °N S N NO.OF JSC'S HANDLED ambedkar pariyavaran vikas samiti&bina kalyan samiti akhil bhartiya pariyavaran grameen vikas sansthan private contractor & kalyan vikas samiti chhaya parishad & sulabh international rachi sulabh shochalaya& sulabh intl. sanitation & promotion dvpt. Society slum environmentequipment society akhil bharti parivar kalyan parishad manav uthan mahashakti samiti prani janhit sewa samiti (burari) shambhu kalyan adarsh samiti girdih jila sulabh shochalaya sitamani sulabh shochalaya sulabh international private contractor private contractor private contractor private contractor private contractor private contractor chhaya parishad

Annexure - 2: Jan Suvidha Complexes - 2003

Annexure - 3: Basti Vikas Kendras - 2003

Payment for maintenance	Govt/ NGO/ Community/ Users		govt.		govt.	govt	govt.	govt.	govt.	govt.	govt.	govt.	govť	, '	1		T		ODU	govt.	govt) D	govt	govt	good	gowt.	govt	doort		govt	good	govt.	gove	govt.
No. of floors Who maintains Payment for maintenance	maintained by	no RVK	govt.	govt.	govt.	govt.	obu	obu	ogu	govt.	ogu	ogu	OBU	obu	obu	govt	govt.	govt.	oBu	ogu	000	govt.	ngo	080	OBU	O D D D D D D D D D D D D D D D D D D D	OBU	govt		ngo	OBU	Dão	prop	ngo
No. of floors				2	2		-	-	-	-	2	2		-			-	-	-	-	2	-	-	t	-		-	-		_		_		
No. of rooms			9	1	4	7	7	5	9	4	5	œ	10	9	9	9	4	9	4	10	8	8	3	4	4		8	5		3	8	8	5	9
Cleanliness	Good/ avg./ poor		z	O	9	9	9	9	9	Д	5	9	9	O	AVG	Ь	9	9	9	9	O	Ь	O	O	5		g	4			ŋ	9		g
Continuous	Yes/ No					>					>	ı	-	1	1	ŧ		,	>	z		ı	1	7	٨		-				1	1	1	>
Water supply	tap/handpump		z	¥	Y	>	⊁	ᢣ	Υ	z	ΥT	z	λL	z	ΥT	z	z	>	ΥT	z	ΤΥ	z	>	*	>		z	z		>	7	ΥT	Z	ΤΥ
>	bills paid regularly				•	,	,				NGO			-	NGO	,			NGO	NGO	r				NGO		-			,	-	NGO		
Electricity	meters working		i		ľ	,				,		,	z		>		z	,	>	>	1	3	r	z	1		1	,		1		>		×
	Yes/No		z	>	>	>	z	>	>	z	>	>	Υ	>	>	z	\	>	>	>	z	z	>	>	>		z	z		z	>	>	z	>
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Annexure - 3: Basti Vikas Kendras - 2003

	using BVK		usage	can all in the community use	BVK	If no, why		PHYSICAL CONDITION (Scores)	- CONDITI	ON (Scores	<u>(1)</u>
	Approach whom		No. of days in a month used	I	Yes/ No		ROOF	FLOOR	WALLS	DOORS	Total
-	no BVK			no BVK							
2	govt.			not in use	Z	Constructed 2002 http://www.	NO BVK	NO BVK	NO BVK	NO BVK	0
33	ogu			not in use	: 2	constitueed 2002 but not allotted	ກ	20	23	က	e
4	govt	SC	arch NC	200	Ζ ;		က	က	က	က	3
2	govt	3	22 days	yes	>		9	က	3	3	က
· ·	t 100		22 days	yes	>		က	က	3	8	3
0 1	govt.	D+S+SC	22 days	yes	>		8	8	3	8	3
7	govt.	۵	24 days	yes	Υ		3	. «) (2 0
00	govt.	D+S	26 days	yes	γ) er	o (*	o 6	2 0	2 (
6	govt.	MP		yes	>	Education centre run by community	n m	ກຸຕ	n (n	ი ო	n 60
10	govt.	SC+B+Tution	24 days	no; due to lack of space	λ	Yalulai	,	c	ď	c	c
-	govt.	S+SC, School for mentally retarded	24 days	yes	Υ.		-	, -	o ю	ი ო	2.3
12	govt.	S+SC, VC	24 davs	Ves	>		C		1		
13	govt.	SC+S	24 days	800	- >		η,	20	m	ო	3
4	govt.	S+VC	24 days	Z Z	-		-	ю	က	က	2.5
15	govt.			no:locked			-	-	-	က	1.5
16	govt.	one room MCD sweeper		no use by MCDsweeper			ε,	က	က	က	3
17	govt.	S	26 days	500	>		- (-	-	-
18	OBU	SC+A	24 days	700 Apr. 2007	- ;		2	က	က	က	3
19	govt.	FD+VC+ Awareness Programme	24 days	ye, omy 3070	> ;		က	က	3	က	က
		TO SOME CHOSE PROGRAMME.	24 ddys	yes	>		-	က	3	က	2.5
70	govt.	SC+S+Dance	25 days	no	z		က	n	3	c	~
21	govt.		,	not in use	,		3	8) (°	2 0
22	govt.	SC+S+D & Old Home	24 days	yes	7		3	3) r) (2 6
53	govt.	Q+S	23 days	yes	>			. «	o «	> 0	2 0
24	govt.	SC+S	24 days	yes	\		, ,	0 0	0	2 (0
25	no BVK			no BVK			S ON	2 014	2 014	20 0	m
56	govt.	S+VC	24 days	yes	λ		NO DAY	NO BVR	NO BVK	NO BVK	0
27	govt.			no:locked	. z		2 (° (ກ (က	က
28	no BVK			no BVK	:		2	2	3	က	3
29	govt.	SC+S+Creche	24 days	Ves	>		NO BVK	NO BVK	NO BVK	NO BVK	0
30	govt.	S+2S	24 days	7	- >		-	2	-	က	2
31	govt.	SC+S	24 days	Sex	- >		က	က	8	က	က
32	govt.			not in use	- 2		n 1			က	က
33	govt.	VC+D	24 days	VAS	2 >		LUCKED	ED	ED	LOCKED	0
	>)))	et adyo	yes	<u> </u>		~	C			

Legend
SC - Sewing Center
D - Dispensary
S - Pre School
ED - Education Center
MP - Marriage Party
B - Balwadi
VC - Vocational Course
A - Advocacy

Score
3= good
2= average
1= bad

Annexure: 4

List of NGOs/ private contractors responsible for maintenance of JSCs

- 1. Chhaya Parishad
- 2. Sulabh International
- 3. Manav Uthan Mahashakti Samiti
- 4. Rachi Sulabh Shochalaya
- 5. Slum Environment Equipment Society
- 6. Sitamani Sulabh Shochalaya
- 7. Akhil Bharti Parivar Kalyan Parishad
- 8. Shambhu Kalyan Adarsh Samiti
- 9. Akhil Bhartiya Pariyavaran Grameen Vikas Sansthan
- 10. Prani Janhit Sewa Samiti (Burari)
- 11. Sanitation & promotion dvpt. Society
- 12. Ambedkar Pariyavaran Vikas Samiti&Bina Kalyan Samiti
- 13. Kalyan Vikas Samiti
- 14. Girdih Jila Sulabh Shochalaya
- 15. Private Contractor

Annexure: 5

List of NGOs/ private contractors responsible for maintenance of BVKs

- 1.Asha
- 2.Sewa Bharti
- 3.Jan Ekta Bhisak Sewa Sansthan
- 4. Swami Amar Dev
- 5.Maa Shakti Charitable Clinic
- 6.Chahal
- 7. National Literacy Mission
- 8.Nai Roshni
- 9.Indcare
- 10. Gian Prakash School
- 11.Nav Jivan Samitee
- 12.Swati Edu.

- 13. Pariyas Edu.
- 14. Sewa Bharti & Sahlee Bari
- 15.Narmada Edu. Trust
- 16.Zion Social Welfare Society
- 17.Kislay
- 18.Kesav Bharti

Planning for Construction of BVKs

Construction of BVKs is planned and executed centrally by the Department based on fund availability and requests from Councilors of different areas. No attempt is made by the Department to include people in its planning or construction activities, to improve ownership of communities. Nor is there any attempt to form operation and management /maintenance committees from among the communities and hand over the BVK as an asset to the community.

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