ECONOMIC ANALYSIS FOR SOFTWARE PROJECTS WITHOUT ENVIRONMENTAL EDUCATION AND MANAGEMENT COST

Table III:1-A(a) On-Farm Conservation Project

(Without Conversion)

		y and Fa					Incremen		efits	5%
		of Tradil				1.4	Discount			7%
					f Maize M	1.9	Operation	n Cost		5%
Aver	age Fa	rm-Gate	Price ((in Rs.)	of Maize	8.62	Incremen	t Opera	tion Cost	2%
	$M_{1} = 0$		1.1.1			1997	Benefit fr	om Othe	er Crops	50%
Bene	efit Cor	nponen	ts (in 1	Thousa	nd Rs/hee	ctare)	SCF			1
Reve	enue pe	er ha of T	raditio	nal Vari	iety of Mai	12				
Reve	enue pe	r ha of li	nprove	ed Varie	ty of Maiz	16				n an
Incre	mental	Benefit	per he	ctare	aliana an aliana ana ar	4			· · · ·	a an indiana an
Cost	t Comp	onents	(in The	ousand	Rs.)		C	onverte	ed being being	
Farm	n Conse	ervation(i	n 20 h	a)		800		800		
$(1, \dots, n)$	21 1	Costs (in '000) Rs.)	an a	Benefits	(in 000 Rs			· ·
· · · · ·	in the state of				Farm	Benefit	·			
		a 1. A 14			Conserva	from		19 - 1 ¹ -		
1944) 1944 - Alexandria		Capital	O&M	Total	tion (in	Other	Total	Cash	Discounted	Discounted
S.N	Year	Cost	Cost	Cost	20 ha)	Crops	Benefit	Flow	Cost	Benefit
1	2003	320		320			0		299	
2	2004	320		320		an ta she Shi ta she	0	(320)	280	· · ·
3	2005	160		160			0	(160)	131	
4	2006		40		81	40		• •	31	
5	2007		41	-	85	43		· · ·	29	
6	2008	r i de la composición	42		89	45			28	
7	2009		42		94	47	141	98	26	
8	2010		43	-	98	49	141		and the second	
9	2011		44		103	43 52			25	
10	2012		45		103	54			24	
11	2012		40	and the second second		54			23	
12	2013		40		114	60	171	125	22	
13	2014	1997 - 1997 1997 - 1997	48	· · · ·	120	. 63	179		21	
14	2015	. 1	40	1 A A			188		20	
. 15	2010		- 49 - 50		132	66	198		19	
16		· · · ·			139	69	208		18	
1.1	2018		51		145	73	1		. 17	
17	2019	· · · · ·	52	1.4.5		76	229		16	and the second
18	2020		53			80	241	188	16	
19	2021		54		168	84	253	199	15	
20	2022	÷	55		177	88	265		14	
21	2023			56	186	93	278		14	
22	2024		57		195	97	292		13	
23	2025	· ·	58		205	102	307		12	
24	2026		. 59		215	107	322		12	
25	2027	i sta	61	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		113	338		11	62
26	2028	1	62		237	118	355		11	61
27	2029		63		249	124	373	310	10	60
28	2030		64		261	131		327	10	
· .	Total		1,281				5,798		1,165	1,865
		Internal		of Retur	'n		13.12%			· · · · · · · · · · · · · · · · · · ·
		B/C Ra	tio				1.60		-	
		NPV					700			
b 1 - 4 -							and the second			

Note

The capital costs column derived from the cost components has been divided for 2003, 2004,

and 2006 as 40%, 40%, and 20% respectively

O&M cost for 2006 has been taken as 5% of the Sub-Total of cost for 2006

From 2007 to 2030, the O&M cost has been increased by the growth of 2% per annum

Economic benefits of farm conservation for 2006 is calculated by multiplying incremental benefit per hectare by the area (20 ha)

Economic benefits of farm conservation from 2007-2030 has been increased by the growth of 5% per year

Table III:1-A(b) On-Farm Conservation Project

(With Conversion)

Productivity and Farm-Gate Price		Increment in Benefils	5%
Productivity of Traditional Variety of Maize	1.4	Discount Rate	7%
Productivity of Improved Variety of Maize M	1.9	Operation Cost	5%
Average Farm-Gate Price (in Rs.) of Maize	8.62	Increment Operation Cost	2%
		Benefit from Other Crops	50%
Benefit Components (in Thousand Rs/hect	are)	SCF	0.95
Revenue per ha of Traditional Variety of Mai	12		
Revenue per ha of Improved Variety of Maiz	16		

4

800

Converted

760

Revenue per ha of Improved Variety of Maiz Incremental Benefit per hectare Cost Components (in Thousand Rs.) Farm Conservation(in 20 ha)

S.NYearCostCostCost20 ha)CropsBenefitFlowCostBenefit12003 304 304 00 (304) 28422004 304 304 0 (304) 26632005 152 152 0 (152) 12442006 38 38 77 38 115 77 2952007 39 39 81 40 121 82 2862008 40 40 85 42 127 88 26 72009 40 40 89 45 134 93 255 82010 41 41 94 47 140 99 24 92011 42 42 98 49 147 105 23 102012 43 43 103 52 155 112 22 112013 44 44 108 54 162 119 21 122014 45 45 114 57 171 126 20 132015 45 45 119 60 179 134 19 142016 46 46 125 63 188 142 18 15 2017 47 47 47 73 218 166 161 172019 49 49 145 <t< th=""><th>rann Co</th><th>nservatic</th><th>•</th><th></th><th></th><th>000</th><th></th><th>100</th><th></th><th>and the second second</th></t<>	rann Co	nservatic	•			000		100		and the second second
Conserve fromS.NYearCostCostCost20 ha)Other CropsTotal BenefitCash FlowDiscounted CostDiscounted Benefit120033043040Crops0(304)2842200430430400(304)284320051521520(152)12442006383877381157729520073939814012182284620084040854212788267209404089451349325820104141944714099249201142429849147105231020124343103521551122211201344441085416211921122014454511457171126201320154545119601791341914201646461256318814218152017474713266197150171620184848138692071591617 <td></td> <td>Cost</td> <td>t<mark>s (in '0</mark>0</td> <td>0 Rs.)</td> <td></td> <td></td> <td>(in 000 Rs</td> <td>.)</td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td>		Cost	t <mark>s (in '0</mark> 0	0 Rs.)			(in 000 Rs	.)		· · · · · · · · · · · · · · · · · · ·
Capital Cost Cost Total Cost Total 20 hay Other Crops Total Benefit Cash Cost Discounter Benefit Benefit Cost Cost Cost Benefit Discounter Benefit Benefit Cost Cost Discounter Benefit Benefit Cost Cost Discounter Benefit Benefit Flow Cost Discounter Benefit 1 2003 304 304 304 0 (304) 284 2 2004 304 304 0 (304) 266 3 2005 152 152 0 (152) 124 4 2006 38 38 77 38 115 77 29 5 2007 39 39 81 40 121 82 28 6 7 2009 40 40 89 45 134 93 25 3 8 2010 41 41 94 47 140 99 24										
S.NYearCostCostCost20 ha)CropsBenefitFlowCostBenefit12003 304 304 00 (304) 28422004 304 304 00 (304) 26632005 152 152 00 (152) 12442006 38 38 77 38 115 77 2952007 39 39 81 40 121 82 2862008 40 40 85 42 127 88 26 72009 40 40 89 45 134 93 255 82010 41 41 94 47 140 99 244 92011 42 42 98 49 147 105 23 102012 43 43 103 52 155 112 22 112013 44 44 108 54 162 119 21 122014 45 45 114 57 171 126 200 132015 45 45 119 60 179 134 19 142016 46 46 125 63 188 142 18 15 2017 47 47 432 69 207 159 16 17 2019 49 49 145 <										
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	S.N Ye				20 ha)	Crops				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							0	• •		. 0
4 2006 38 38 37 38 115 77 29 5 2007 39 39 81 40 121 82 28 6 2008 40 40 85 42 127 88 26 7 2009 40 40 89 45 134 93 25 8 2010 41 41 94 47 140 99 24 9 2011 42 42 98 49 147 105 23 10 2012 43 43 103 52 155 112 22 11 2013 44 44 108 54 162 119 21 12 2014 45 45 114 57 171 126 20 13 2015 45 45 119 60 179 134 19 14 2016 46 46 125 63 188 142 18 15 2017 47 47 132 66 197 150 17 16 2018 48 48 138 69 207 159 16 17 2019 49 49 145 73 218 168 16 18 2020 50 50 152 76 229 178 15 19 2021 51 51 160 80							0	• •		0
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		06							29	. 88
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		07							28	86
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
920114242984914710523102012434310352155112221120134444108541621192112201445451145717112620132015454511960179134191420164646125631881421815201747471326619715017162018484813869207159161720194949145732181681618202050501527622917815192021515116080240189142020225252168842522001321202353531768826521113										
10 2012 43 43 103 52 155 112 22 11 2013 44 44 108 54 162 119 21 12 2014 45 45 114 57 171 126 20 13 2015 45 45 119 60 179 134 19 14 2016 46 46 125 63 188 142 18 15 2017 47 47 132 66 197 150 17 16 2018 48 48 138 69 207 159 16 17 2019 49 49 145 73 218 168 16 18 2020 50 50 152 76 229 178 15 19 2021 51 51 160 80 240 189 14 20 2022 52 52 168 84 252 200 13 21 2023 53 53 176 88 265 211 13	8 20	10								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9 20	11	42	2 42	98			105	23	80
12 2014 45 45 114 57 171 126 20 13 2015 45 45 119 60 179 134 19 14 2016 46 46 125 63 188 142 18 15 2017 47 47 132 66 197 150 17 16 2018 48 48 138 69 207 159 16 17 2019 49 49 145 73 218 168 16 18 2020 50 50 152 76 229 178 15 19 2021 51 51 160 80 240 189 14 20 2022 52 52 168 84 252 200 13 21 2023 53 53 176 88 265 211 13	10 20	12	43	3 43				112	. 22	79
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11 20	13	44	4 44	108	54	162	119	21	77
1420164646125631881421815201747471326619715017162018484813869207159161720194949145732181681618202050501527622917815192021515116080240189142020225252168842522001321202353531768826521113	12 20	14	4	5 45	114	57	171	126	20	76
15201747471326619715017162018484813869207159161720194949145732181681618202050501527622917815192021515116080240189142020225252168842522001321202353531768826521113	13 20	15	4	5 45	119	60	179	134	19	74
162018484813869207159161720194949145732181681618202050501527622917815192021515116080240189142020225252168842522001321202353531768826521113	14 20	16	41	6 46	125	63	188	142	18	73
1720194949145732181681618202050501527622917815192021515116080240189142020225252168842522001321202353531768826521113	15 20	17	4	7 47	132	66	197	150	17	72
18202050501527622917815192021515116080240189142020225252168842522001321202353531768826521113	16 20	18	4	8 48	138	69	207	159	16	70
192021515116080240189142020225252168842522001321202353531768826521113	17 20	19	4	9 49	145	73	218	168	. 16	69
2020225252168842522001321202353531768826521113	18 20	20	5	0 50	152	76	229	178	- 15	68
21 2023 53 53 176 88 265 211 13	19 20	21	5	1 51	160	80	240	189	14	66
	20 20)22	5	2 52	168	84	252	200	13	65
	21 20)23	5	3 53	176	88	265	211	13	64
22 2024 54 54 185 93 278 223 12	22 20)24	5	4 54	185	93	278	223	12	63
23 2025 55 55 194 97 292 236 12	23 20)25	5	5 55	i 194	. 97	292	236	12	62
24 2026 56 56 204 102 306 250 11	24 20)26	5	6 56	204	102	306	250	11	60
25 2027 58 58 214 107 322 264 11	25 20)27	5	8 58	214	107	322	264	11	59
26 2028 59 59 225 113 338 279 10	26 20)28	5	9 59	225	i 113	338	279	10	58
27 2029 60 60 236 118 354 295 10	27 20)29	6	0 6 0) 236	118	354	295	10	57
28 2030 61 61 248 124 372 311 9	28 20	030	6	i 1 61	248	124	372	311	9	56
Total 760 1,217 5,508 1,107 1,	Tot	al	760 1,21	7			5,508		1,107	1,771
Internal Rate of Return 13.12%					Irn		13.12%			······································
B/C Ratio 1.60		B/C	Ratio				1.60		•	
NPV 665		NP	/				665			

Note

The capital costs column derived from the cost components has been divided for 2003, 2004, and 2006 as 40%, 40%, and 20% respectively

O&M cost for 2006 has been taken as 5% of the Sub-Total of cost for 2006

From 2007 to 2030, the O&M cost has been increased by the growth of 2% per annum Economic benefits of farm conservation for 2006 is calculated by multiplying incremental benefit per hectare by the area (20 ha)

Economic benefits of farm conservation from 2007-2030 has been increased by the growth of 5% per year

Table III:2-A(a) Goat Raising Project

Without Conversion

					Wi	thout Conve	ersion				
No.of	housel	holds ei	ngaged in go	at raisi	ng	720		Incremen	t in Benef	its	5%
Numb	per of g	oats pe	r household			2		Discount	Rate		7%
Total	goat-le	ts purch	nased			1440		Operation	n Cost		5%
Purch	nase pri	ice of g	oat-let (in '00	0 Rs.)		1.0					
Numt	ber of g	oats so	ld/annum/hh			1		Incremen	it in feedir	ig Cost	2%
Total	goat so	old/anni	un			720		Percenta	ge of goal	sold	50%
			goat for mea			2.0					
		-	repl. at inter	val of 6	yrs	1008			om sales	of manure	5%
			other goat			500		SCF			· 1
Bene	fit from	the sal	es of goats (in '000	Rs.)	1		Number	-		
								2003	2004	2005	Total
			eeding/hh/go			3.0		40%	40%	20%	100%
	•		addnl feeding	•	in(Rs.)		Purchase		576	288	1440
	÷ .		goat/annum			1095	Sold	288	288	144	720
	-	onents	(in Thousa	nd Rs.)		Converte	288	288	144	720
Initial	cost					1,440					
		Costs (i	in '000 Rs.)		Damafit	Benefits	s (in 000 F	(s.)			<u></u>
		•			Benefit		Income				
					from sales of	Popofit	from sales of				
	,	Conital	Fooding	Total	adult			Total	Cash	Discounted	Discounted
e N	Year (-	Feeding Expenses	Total Cost	goat	from	mother -	Total Repofit	Cash Flow	Discounted	
<u>-3.iv.</u> 1	2003	576		1,207		manure	yoats	Benefit 0	(1,207)	Cost	Benefit 0
2	2003	576		1,207		29		605	(602)		
3	2004	288		603				1,210	• •	493	
4	2005	200		1,577				1,512	(65)		
5	2000	:	1,608					1,588		1,147	
6	2007	•	1,641					1,667	26	1,093	
7	2000			1,673						1,093	
8	2010			1,707				1,838		993	
9	2010			1,741				1,930		947	
10	2012		-	1,776				2,026		903	
11	2012			1,811				2,128		861	1,030
12	2014		-	1,847				2,120		820	
13	2015			1,884						782	
	2016			1,922				2,463		745	
	2017			1,961				2,586		711	
	2018			2,000				2,715		677	
	2019			2,040				2,851		646	
	2020			2,081				2,994		616	
19	2021			2,122						587	
20	2022			2,165				3,301	-	559	
21	2023			2,208				3,466	•	533	
22	2024			2,252				3,639		508	
23	2025			2,297				3,821		485	
24	2026			2,343				4,012		462	
25			2,390	2,390					-	440	
26	2028			2,438				4,423		420	
27	2029		2,486	5 2,486	6 4,423	3 221	!	4,644		400	
28	2030		_2,536	3 2,53€	64,644	1 232	2	4,876	2,340	381	733
	Total	1,44(52,082	2				75,994		20,636	25,479
				Intern	al Rate of	Return		18.12%	· · · · · · · · · · · · · · · · · · ·		
				B/C R	tatio			- 1.23			
Not	e			NPV				4,843			
The	capital	l cost co	olumn derive	d from	the cost co	moonent	s has beer	n divided f	or 2003 2	004.	

The capital cost column derived from the cost components has been divided for 2003, 2004, and 2006 as 40%, 40%, and 20% respectively

O&M cost for 2006 has been taken as 5% of the Sub-Total of cost for 2006

From 2007 to 2030, the feeding cost has been increased by the growth of 2% per annum

Table III:2-A(b)
Goat Raising Project
With Conversion

						Nith Conve	rsion					
			ngaged in g		ling	720		Incremer	nt in Béné	fits	5%	
			er household			2		Discount	Rate		7%	
		lets purc		· .		1440		Operation Cost				
Purc	hase p	price of g	oat-let (in '00	00 Rs.)	1	1.0		5%				
Num	ber of	goats so	d/annum/ht	· ۲		1		Incremer	nt in feedir	na Cost	2%	
		sold/ann				720			ige of goa	-	50%	
Sale	s price	of adult	goat for mea	at (in '0	00 Rs.)	2.0			.],	e oord	50 %	
			repl. at inter			1008		Benefit fr	om sales	of manure	5%	
			other goat			500		SCF				
Bene	efit fror	n the sal	es of goats ((in '000	Rs.)	1			of goats		0.95	
						· . ·		2003		2005	Tatal	
Expe	ense fo	or addni i	feeding/hh/g	oat/dav	(Rs.)	3.0		40%				
			addnl feedin				Purchase			20%	- • •	
			goat/annum	-		1095		288				
			in Thousa	• •	1	1020	Converte				- 40	
	l cost	1			1	1 440	1368	273.6	273.6	136.8	684	
		Costs (i	in '000 Rs.)				s (in 000 R					
		(Benefit	Denema	Income	(3.)			<u> </u>	
	Λ				from		from					
. :					sales of	Benefit	sales of					
		Capital	Feeding	Total	adult	from	mother	Total	0	D .		
S N	Year	•	Expenses	Cost	goat			Total	Cash	Discounted		
1	2003	547	the second s			manure	goats	Benefit	Flow	Cost	Benefit	
2	2004	547		. 1,178		77		0	· · · /	1,101	0	
3	2004	274		589			· ·	575	(603)	1,029		
4	2005	214		1,577				1,149		481	938	
	2000	·	1,577		•			1,436	,	1,203	1,096	
5			1,608	1,608				1,508	```	1,147	1,075	
6 7	2008		1,641	1,641				1,584	• • •	1,093	1,055	
7	2009		1,673	1,673	-				493	1,042	1,349	
8	2010	· .	1,707	1,707	-			1,746	39	993	1,016	
9	2011		1,741	1,741				1,833	92	947	997	
10	2012		1,776	1,776	-			1,925	149	903	979	
11	2013		1,811	1,811	1,925			2,021	210	861	960	
12	2014		1,847	•			. *	2,122	275	820	942	
13	2015			1,884			504	2,732	848	782	1,134	
14	2016			1,922		111		2,340	418	745	907	
15	2017			1,961				2,457	496	711	890	
	2018			2,000		123		2,580	580	677	874	
	2019			2,040		129		2,709	669	646	857	
18	2020		2,081	2,081	2,709	135		2,844		616	841	
19	2021			2,122		142	504	3,490	1,368	587	965	
20	2022		2,165	2,165	2,986	149		3,135	971	559	810	
21	2023		2,208	2,208	3,135			3,292		533	795	
22	2024		2,252	2,252				3,457	1,205	508	795	
23	2025			2,297				3,630	1,333	485		
24	2026			2,343				3,811	1,468	465	766	
25				2,390			504	4,506	2,116		- 751	
26	2028			2,438				4,500	1,764	440	830	
27	2029			2,486				4,202		420	724	
28				2,536					1,925	400	710	
	Total					44		4,633	2,096	381	697	
		.,			al Rate of F	Patura		72,295		20,572	24,243	
				B/C R		Guill		15.60%		_		
Note	.			NPV				1.18		-		
		l cast as	lumn darivar					3,671				
1 H H		a LUSE CO		1.1673177.1	1111 MOST 000	magaate	hoo hoos		0000			

The capital cost column derived from the cost components has been divided for 2003, 2004, and 2006 as 40%, 40%, and 20% respectively

O&M cost for 2006 has been taken as 5% of the Sub-Total of cost for 2006

From 2007 to 2030, the feeding cost has been increased by the growth of 2% per annum

Table III:3-A(a) Washing and Laundry Place -Without Conversion

and the second	mulour conversio				
Construction of Laundry Place	10		Increment	in Benefit	5%
Constrution cost per unit (in '000 Rs.)	150		Discount R	ate	7%
Number of participatants	. 40		O&M Cost		15%
Participants per unit of laundry place	4		Increment	Operation	5%
			Other bene	efits	5%
Per capita/day income from wash	100		SCF		1
Washing days per week	2		Co	st componen	ts
Per annum washing days	104		2003	2004	2005
Per annum income of the group	416		30%	30%	40%
			450	450	600
Cost Components (in Thousand Rs.)	C	onverte	ď		
Cost for washing and laundry place	1,500	1500	450	450	600

Cost for washing and laundry place

Costs (in '000 Rs.)

Benefits (in 000 Rs.)

		- · .			Per	· .				
		Capital		Total	annum	Other	Total	Cash	Discounted	Discounted
S.N.		Cost	Cost	Cost	Income	Benefit	Benefit	Flow	Cost	Benefit
1	2003	450		450			0	(450)	421	0
- 2	2004	450		450	125		125	(325)	393	109
3	2005	600		600	250		250	(350)	490	204
4	2006		225	225	416	21	437	212	172	333
5	2007		236	236	437	22	459	222	168	327
6	2008		248	248	459	23	482	234	165	321
, 7 ,	2009		260	260	482	24	506	245	162	315
8	2010	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	273	273	506	25	531	257	159	309
. 9	2011		287	287	531	27	557	270	156	303
10	2012		302	302	557	28	585	284	153	298
11	2013		317	317	585	29	615	298	150	292
12	2014		332	332	615	31	645	313	148	287
13	2015		349	349	645	32	678	329	145	281
14	2016		367	367	678	34	712	345	142	276
15	2017		385	385	712	36	747	362	139	271
- 16	2018		404	404	747	37	784	380	137	266
17	2019		424	424	784	39	824	399	134	261
18	2020		445	445	824	41	865	419	132	256
19	2021		468	468	865	43	908	440	129	251
20	2022		491	491	908	45	953	462	. 127	246
21	2023		516	516	953	48	1,001	485	125	242
22	2024		541	541	1,001	50	1,051	510	122	237
23	2025	·	569	569	1,051	53	1,104	535	120	233
24	2026	÷	597	597	1,104	55	1,159	562	118	228
25	2027		627	627	1,159	. 58	1,217	590	115	224
26	2028		658	658	1,217	61	1,278	620	113	220
27	2029		691	691	1,278	64	1,342	651	111	216
28	2030	1. j. i.i.	726	726	1,342	67	1,409	683	109	212
	Total	1,500	10,739				21,222		4,757	7,017
			Rate of	Return			19.72%			
		B/C Ra	tio				1.48		1	
		NPV					2,260			

Note

The capital cost column derived from the cost components has been divided for 2003, 2004, and 2006 as 40%, 40%, and 20% respectively

O&M cost for 2006 has been taken as 5% of the capital cost for 2006

From 2007 to 2030, the O&M cost has been increased by the growth of 5% per annum Per annum income for 2004 is taken as 30% of the per annum income of the group Per annum income for 2005 is taken as 40% of the per annum income of the group

Table III:3-A(b) Washing and Laundry Place

With	Conversion
****	CONVENSION

with Conversion			
10	Increm	ent in Benefit	5%
150	Discou	nt Rate	7%
40	O&M (Cost	15%
4	Increm	ent Operation	5%
	Other I	penefits	5%
100	SCF		0.95
2		Cost component	S
104	2003	2004	2005
416	30%	30%	40%
	450	450	600
·	Converted	· · · · ·	
1,500	1425 427.5	427.5	570
	10 150 40 4 100 2 104 416	150 Discout 40 O&M C 4 Increm 0ther M Other M 100 SCF 2 104 2003 416 30% 450 Converted 400 400	10Increment in Benefit150Discount Rate40O&M Cost4Increment OperationOther benefits0100SCF2Cost component1042003200430%450450450450

<u></u>		Costs (in '000 l	Rs.)	· .	Benefits	(in 000 R	s.)		
		<u> </u>			Per					
0 N		Capital		Total	annum	Other	Total	Cash	Discounted	Discounted
<u>S.N.</u>		Cost	Cost	Cost	Income	Benefit	Benefit	Flow	Cost	Benefit
.1	2003	428		428			0	· · · · · · · · · · · · · · · · · · ·	400	
2	2004	428		428			125	• •	373	109
3	2005	570		570			250	• •	465	204
4	2006		214	214					163	317
5	2007		224	224			436		160	311
6	2008		236	236					157	305
- 7	2009		247						154	299
8.	2010		260	260					151	294
9	2011		273						148	288
10	2012		286						146	283
11	2013		301					283	143	277
12	2014		316				613	297	140	272
13	2015		332				644	312	138	267
14	2016		348	348	644	32	676	328	135	262
15	2017		366		676	34	710	344	133	257
16	2018		384			35	745	361	130	252
17	2019		403	403	745	37	782	379	128	248
18	2020		423	423	782	39	822	398	125	243
19	2021		444	444	822	41	863	418	123	239
20	2022		467	467	863	43	906	439	121	234
21	2023		490	490	906	45	951	461	118	230
22	2024		514	514	951	48	999	484	116	225
23	2025		540	540	999	50	1,049	508	114	221
24	2026		567	567	1,049	52	1,101	534	112	217
25	2027		595	595	1,101	· 55	1,156	561	110	213
26	2028		625	625	1,156	58	1,214	589	108	209
27	2029		657	657	1,214	61	1,275		106	205
28	2030		689		1,275	64	1,338	649	104	201
	Total		10,202				20,179		4,519	6,682
			Rate of	Return			19.94%			
		B/C Ra	tio				1.48			
		NPV					2,163			
61										

Note

The capital cost column derived from the cost components has been divided for 2003, 2004, and 2006 as 40%, 40%, and 20% respectively

O&M cost for 2006 has been taken as 5% of the capital cost for 2006

From 2007 to 2030, the O&M cost has been increased by the growth of 5% per annum Per annum income for 2004 is taken as 30% of the per annum income of the group Per annum income for 2005 is taken as 40% of the per annum income of the group

Table III:4-A(a) Integrated Analysis of the Software Components Without Conversion Factor

	Discour	nt Rate	7%			
	·	Total Cost	Total Benefit			
S.N.	Year	(in 000 Rs.)	(in '000 Rs.)	Cash Flow	Discounted Cost	Discounted Benefit
1	2003	1,977	0	(1,977)	1,847	0
2	2004	1,977	730	(1,247)	1,727	637
- 3	2005	1,363	1,459	96	1,113	1,191
4	2006	1,842	2,070	228	1,405	1,579
5	2007	1,885	2,174	288	1,344	1,550
6	2008	1,930	2,282	352	1,286	1,521
7	2009	1,976	2,901	924	1,231	1,806
8	2010	2,024	2,516	493	1,178	1,465
9	2011	2,072	2,642	570	1,127	1,437
10	2012	2,122	2,774	652	1,079	1,410
11	2013	2,174	2,913	739	1,033	1,384
12	2014	2,227	3,059	832	989	
13	2015	2,281	3,716	1,434	947	1,542
14	2016	2,337	3,372	1,035	906	
15	2017	2,395	3,541	1,146	868	
16	2018	2,455	3,718	1,263	831	1,259
17	2019	2,516	3,904	1,388	796	1,236
18	2020	2,579	4,099	1,520	763	1,213
19	2021	2,644	4,808	2,164	731	1,329
20	2022	2,711	4,519	1,809	700	1,168
21	2023	2,780			671	1,146
22	2024	2,851	4,982	2,132	643	1,125
23	2025	2,924			617	1,104
24	2026	2,999	5,493	2,494	591	1,083
25	2027	3,077			567	1,156
26	2028	3,158			544	1,043
27	2029	3,241	6,359		522	1,023
- 28	2030	3,326			500	1,004
Total	· · · · · · · ·	67,842	-		26,557	34,361
		Internal Rate		17.66%		
		B/C Ratio		1.29		
		NPV		7,803		

Table III:4-A(b) Integrated Analysis of the Software Components With Conversion Factor

	Discoun	t Rate	7%			
	······································	Total Cost	Total Benefit			
S.N.	Year	(in 000 Rs.)	(in '000 Rs.)	Cash Flow	Discounted Cost	Discounted Benefit
1	2003	1,909	0	(1,909)	1,785	0
- 2	2004	1,909	699			
3	2005	1,311	1,399	88	1,070	1,142
4	2006	1,829	1,967	138	1,395	1,500
5	2007	1,872	2,065	194	1,334	1,472
6	2008	1,916	2,168	253	1,277	1,445
· 7 .,	2009	1,961	2,781	820	1,221	1,732
. 8	2010	2,008	2,391	383	1,169	1,391
9	2011	2,056	2,510	454	1,118	1,365
10	2012	2,105	2,636	531	1,070	1,340
11	2013	2,156	2,767	612	1,024	1,315
12	2014	2,208	2,906	698	980	1,290
13	2015	2,261	3,555	1,294	938	1,475
14	2016	2,317	3,204	887	898	1,242
15	2017	2,373	3,364	990	860	
16	2018	2,432	3,532	1,100	824	1,196
17	2019	2,492	3,709	1,217	789	
18	2020	2,554	3,894	1,340	756	
19	2021	2,618	4,593	1,975	724	
20	2022	2,683	4,293	1,610	693	
21	2023	2,751	4,508	1,757	664	
- 22	2024	2,821	4,733		637	
23	2025	2,893	4,970	2,077	610	
24	2026	2,967	5,218		585	
25	2027	3,043			561	
26	2028	3,122	5,753		538	
27	2029	3,203			515	
28	2030	3,287			494	
Total		67,054			26,197	
		Internal Rate	e of Return	16.27%		
		B/C Ratio		1.25	5	
	1.	NPV		6,499		
	ч. Т					· · ·

Table III:1(a)

Economic Analysis of Environment Education for Soil Conservation Program

(Software Component)

Without Conversion	Factor

Pro	Productiv Productiv	and Farm- ity of Tradi ity of Impro Farm-Gate	tional ∖ oved Va	/ariety of ariety of	f Mai	ize N	1T/ha	a ·	1,4 1,9 8,62			Increme Discour O&M Co Increme	it Rate ost		2% 7% 10% 5%	
Ber	efit Com	ponents (i	n Thou	isand F	Rs po	er he	ectar	e)	·			SCF	1		·.	
		per ha of 1						,	12					· . ·		
		, per ha of l							16			·	- ¹ -			
÷ .		tal Benefit	· · ·					-	4	Co	nverted					
		1 of 600 tre			estry	/ha			10		. 10					
		d improven		Ξ÷					2		- 2			· · .	· · .	
	Silvi Past	ure Benefi	t 👘						2	· · ·	- 2	. *.	:	· .		
	Conserva	ation Planta	ation Be	enefit			1.11	. `	5		5					
		n na Na Santa Santa														
Cos	st Compo	nents (in 1	Thousa	and Rs.	.)				· .	. 1						
	Farm Co	nservation((in 20 h	a)		1	800	a si da								
	Agro-fore	estry (in 3 h	ia)				15									
	Grasslan	d (in 40 ha)				160								· · ·	
1.12	Silvi Past	iure (in 180) ha) 🔬				900						· · · · ·			
	Conserva	ation Planta	ation (ir	n 39 ha)) :		390	Ċ	Converte	di 🦾						
	Sub Tota	l of Cost C	ompon	ents		2,	265		2265						1100	
			1. 1. 1. No.	a de la composición d Composición de la composición de la comp			1. 1.		in an							
	Co	sts (in '00					Eco	nomic	Benefits	(in '0	00 Rs)		t tal			
	Su	b	Grand	Farm					000							
			1.1		•				Silvi							
	То	tal	Total	Conse		-			Pasture				a Alas a		Discou	
	of	tal O&M	Total of	Conse tion (in	i f	ores	try	land (in	Pasture (in 180	Plan	tation (in	Total		nted	Discou nted	
	of Year Co	tal O&M	Total of	Conse	i f	ores	try		Pasture (in 180		tation (in	Total Benefit	Flow			
1	of Year Co 2002	tal O&M ist Cost	Total of Cost	Conse tion (in 20 ha)	i f	ores	try	land (in	Pasture (in 180	Plan	tation (in	Total	Flow 0	nted Cost	nted	
1 2	of Year Co 2002 2003	tal O&M ist Cost 453	Total of Cost 453	Conse tion (in 20 ha)	i f	ores	try	land (in	Pasture (in 180	Plan	tation (in	Total Benefit 0 0	Flow 0 (453)	nted Cost 396	nted	
1 2 3	of Year Co 2002 2003 2004	tal O&M <u>ist Cost</u> 453 906	Total of Cost 453 906	Conse tion (in 20 ha)	i f	ores	try	land (in	Pasture (in 180	Plan	tation (in	Total Benefit 0 0 0	Flow 0 (453) (906)	nted Cost 396 740	nted Benefit 0 0	
1 2 3 4	of Year Co 2002 2003 2004 2005	tal O&M ist Cost 453 906 906	Total of Cost 453 906 906	Conse tion (in 20 ha)	i f	ores	try ha)	land (in 40 ha)	Pasture (in 180 ha)	Plan	tation (in a)	Total Benefit 0 0 0 0	Flow 0 (453) (906) (906)	nted Cost 396 740 691	nted Benefit 0 0 0	
1 2 3 4 5	of Year Co 2002 2003 2004 2005 2006	tal O&M est Cost 453 906 906 227	Total of Cost 453 906 906 227	Conse tion (in 20 ha)	• f (81	ores	try ha) 30	land (in 40 ha) 80	Pasture (in 180 ha) 360	Plan 39 h	tation (in a) 195	Total Benefit 0 0 0 0 746	Flow (453) (906) (906) 519	nted Cost 396 740 691 161	nted Benefit 0 0 0 532	
1 2 3 4 5 6	of Year Co 2002 2003 2004 2005 2006 2007	tal O&M est Cost 453 906 906 227 238	Total of Cost 453 906 906 227 238	Conse tion (in 20 ha)	81 83	ores	try ha) 30 31	land (in 40 ha) 80 82	Pasture (in 180 ha) 360 367	Plan 39 h	tation (in a) 195 199	Total Benefit 0 0 0 0 746 761	Flow 0 (453) (906) (906) 519 523	nted Cost 396 740 691 161 158	nted Benefit 0 0 0 532 507	
1 2 3 4 5 6 7	of Year Co 2002 2003 2004 2005 2006 2007 2008	tal O&M ist Cost 453 906 906 227 238 250	Total of Cost 453 906 906 227 238 250	Conse tion (in 20 ha)	81 83 84	ores	try ha) 30 31 31	land (in 40 ha) 80 82 83	Pasture (in 180 ha) 360 367 375	Plan 39 h	tation (in a) 195 199 203	Total Benefit 0 0 0 0 746 761 776	Flow 0 (453) (906) (906) 519 523 526	nted Cost 396 740 691 161 158 156	nted Benefit 0 0 0 532 507 483	
1 2 3 4 5 6 7 8	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009	tal O&M ist Cost 453 906 906 227 238 250 262	Total of Cost 453 906 906 227 238 250 262	Conse tion (in 20 ha)	81 83 84 86	ores	try ha) 30 31 31 32	land (in 40 ha) 80 82 83 83	Pasture (in 180 ha) 360 367 375 382	Plan 39 h	tation (in a) 195 199 203 207	Total Benefit 0 0 0 746 761 776 792	Flow 0 (453) (906) (906) 519 523 526 529	nted Cost 396 740 691 161 158 156 153	nted Benefit 0 0 532 507 483 461	
1 2 3 4 5 6 7 8 9	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010	tal O&M st Cost 453 906 906 227 238 250 262 275	Total of Cost 453 906 906 227 238 250 262 275	Conse tion (in 20 ha)	81 83 84 86 88	ores	try ha) 30 31 31 32 32	land (in 40 ha) 80 82 83 85 87	Pasture (in 180 ha) 360 367 375 382 390	Plant 39 ha	tation (in a) 195 199 203 207 211	Total Benefit 0 0 0 746 761 776 792 807	Flow 0 (453) (906) 519 523 526 529 532	nted Cost 396 740 691 161 158 156 153 150	nted Benefit 0 0 532 507 483 461 439	
1 2 3 4 5 6 7 8 9 10	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	tal O&M st Cost 453 906 906 227 238 250 262 275 289	Total of Cost 453 906 207 238 250 262 275 289	Conse tion (in 20 ha)	81 83 84 86 88 89	ores	try ha) 30 31 31 32 32 33	land (in 40 ha) 80 82 83 85 87 88	Pasture (in 180 ha) 360 367 375 382 390 397	Plant 39 ha	tation (in a) 195 199 203 207 211 215	Total Benefit 0 0 0 746 761 776 792 807 824	Flow 0 (453) (906) 519 523 526 529 532 532 535	nted Cost 396 740 691 161 158 156 153 150 147	nted Benefit 0 0 532 507 483 461 439 419	
1 2 3 4 5 6 7 8 9 10 11	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	tal O&M st Cost 453 906 906 227 238 250 262 275 289 304	Total of Cost 453 906 906 227 238 250 262 275 289 304	Conse tion (in 20 ha)	81 83 84 86 88 89 91	ores	try ha) 30 31 31 32 32 33 34	land (in 40 ha) 80 82 83 85 87 88 90	Pasture (in 180 ha) 360 367 375 382 390 397 405	Plant 39 h	tation (in a) 195 199 203 207 211 215 220	Total Benefit 0 0 0 746 761 776 792 807 824 840	Flow 0 (453) (906) 519 523 526 529 532 535 537	nted Cost 396 740 691 161 158 156 153 150 147 144	nted Benefit 0 0 532 507 483 461 439 419 399	
1 2 3 4 5 6 7 8 9 10 11 12	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	tal O&M ost Cost 453 906 906 227 238 250 262 275 289 304 319	Total of Cost 906 906 227 238 250 262 275 289 304 319	Conse tion (in 20 ha)	81 83 84 86 88 89 91 93	ores	try ha) 30 31 31 32 32 33 34 34 34	land (in 40 ha) 80 82 83 85 87 88 90 92	Pasture (in 180 ha) 360 367 375 382 390 397 405 414	Plant 39 h	tation (in a) 195 199 203 207 211 215 220 224	Total Benefit 0 0 0 746 761 776 792 807 824 840 857	Flow 0 (453) (906) 519 523 526 529 532 535 537 538	nted Cost 396 740 691 161 158 156 153 150 147 144 142	nted Benefit 0 0 532 507 483 461 439 419 399 380	
1 2 3 4 5 6 7 8 9 10 11 12 13	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	tal O&M st Cost 453 906 906 227 238 250 262 275 289 304 319 335	Total of Cost 453 906 906 227 238 250 262 275 289 304 319 335	Conse tion (in 20 ha)	81 83 84 86 88 89 91 93 93 95	ores	try ha) 30 31 31 32 32 33 34 34 35	land (in 40 ha) 80 82 83 85 87 88 90 92 94	Pasture (in 180 ha) 360 367 375 382 390 397 405 414 422	Plant 39 h	tation (in a) 195 199 203 207 211 215 220 224 228	Total Benefit 0 0 0 746 761 776 792 807 824 840 857 874	Flow 0 (453) (906) 519 523 526 529 532 535 537 538 539	nted Cost 396 740 691 161 158 156 153 150 147 144 142 139	nted Benefit 0 0 532 507 483 461 439 419 399 380 363	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	tal O&M st Cost 453 906 906 227 238 250 262 275 289 304 319 335 351	Total of Cost 453 906 207 238 250 262 275 289 304 319 335 351	Conse tion (in 20 ha)	81 83 84 86 88 89 91 93 95 97	ores	try ha) 30 31 31 32 32 33 34 34 35 36	land (in 40 ha) 80 82 83 85 87 88 90 92 94 94 96	Pasture (in 180 ha) 360 367 375 382 390 397 405 414 422 430	Plant 39 h	tation (in a) 195 199 203 207 211 215 220 224 228 233	Total Benefit 0 0 0 746 761 776 792 807 824 840 857 874 892	Flow 0 (453) (906) 519 523 526 529 532 535 537 538 539 540	nted Cost 396 740 691 161 158 156 153 150 147 144 142 139 136	nted Benefit 0 0 532 507 483 461 439 419 399 380 363 346	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	tal O&M st Cost 453 906 906 227 238 250 262 275 289 304 319 335 351 369	Total of Cost 453 906 207 238 250 262 275 289 304 319 335 351 369	Conse tion (in 20 ha)	81 83 84 86 88 89 91 93 95 97 99	ores	try ha) 30 31 31 32 32 33 34 34 35 36 37	land (in 40 ha) 80 82 83 85 87 88 90 92 94 96 98	Pasture (in 180 ha) 360 367 375 382 390 397 405 414 422 430 439	Plant 39 h	tation (in a) 195 199 203 207 211 215 220 224 228 233 238	Total Benefit 0 0 0 746 761 776 792 807 824 840 857 874 892 909	Flow 0 (453) (906) 519 523 526 529 532 535 537 538 539 540 540	nted Cost 396 740 691 161 158 156 153 150 147 144 142 139 136 134	nted Benefit 0 0 532 507 483 461 439 419 399 380 363 346 330	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	tal O&M (st Cost) 453 906 227 238 250 262 275 289 304 319 335 351 369 387	Total of Cost 453 906 227 238 250 262 275 289 304 319 335 351 369 387	Conse tion (in 20 ha)	81 83 84 88 89 91 93 95 97 99 101	ores	try ha) 30 31 31 32 33 34 34 35 36 37 37	land (in 40 ha) 80 82 83 85 87 88 90 92 94 96 98 99	Pasture (in 180 ha) 360 367 375 382 390 397 405 414 422 430 439 448	Plant 39 h	tation (in a) 195 199 203 207 211 215 220 224 228 233 238 242	Total Benefit 0 0 0 746 761 776 792 807 824 840 857 874 892 909 928	Flow 0 (453) (906) 519 523 526 529 532 535 537 538 539 540 540 540	nted Cost 396 740 691 161 158 156 153 150 147 144 142 139 136 134 131	nted Benefit 0 0 532 507 483 461 439 419 399 380 363 346 330 314	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	tal O&M ost Cost 453 906 227 238 250 262 275 289 304 319 335 351 369 387 407	Total of Cost 453 906 906 227 238 250 262 275 289 304 319 335 351 369 387 407	Conse tion (in 20 ha)	81 83 84 86 88 91 93 95 97 99 90 101 103	ores	try ha) 30 31 31 32 32 33 34 34 35 36 37 37 38	land (in 40 ha) 80 82 83 85 87 88 90 92 94 96 98 99 101	Pasture (in 180 ha) 360 367 375 382 390 397 405 414 422 430 439 448 457	Plan 39 h	tation (in a) 195 199 203 207 211 215 220 224 228 233 238 242 242 247	Total Benefit 0 0 0 0 746 761 776 792 807 824 840 857 874 892 909 928 946	Flow 0 (453) (906) 519 523 526 529 532 535 537 538 539 540 540 540 539	nted Cost 396 740 691 161 158 156 153 150 147 144 142 139 136 134 131 129	nted Benefit 0 0 532 507 483 461 439 419 399 380 363 346 330 314 300	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	tal O&M st Cost 453 906 906 227 238 250 262 275 289 304 319 335 351 369 387 407 427	Total of Cost 906 906 227 238 250 262 275 289 304 319 335 351 369 387 407 427	Conse tion (in 20 ha)	81 83 84 86 88 89 91 93 95 97 99 90 101 103 105	ores	try ha) 30 31 32 32 33 34 35 36 37 37 38 39	land (in 40 ha) 80 82 83 85 87 88 90 92 94 96 98 99 101 103	Pasture (in 180 ha) 360 367 375 382 390 397 405 414 422 430 439 448 457 466	Plant 39 h	tation (in a) 195 199 203 207 211 215 220 224 228 233 238 242 247 252	Total Benefit 0 0 0 0 746 761 776 792 807 824 840 857 874 892 909 928 946 965	Flow 0 (453) (906) 519 523 526 529 532 535 537 538 539 540 540 540 540 539 538	nted Cost 396 740 691 161 158 156 153 150 147 144 142 139 136 134 131 129 126	nted Benefit 0 0 532 507 483 461 439 419 399 380 363 346 330 314 300 286	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	tal O&M ist Cost 453 906 906 227 238 250 262 275 289 304 319 335 351 369 387 407 427 448	Total of Cost 906 227 238 250 262 275 289 304 319 335 351 369 387 407 427 448	Conse tion (in 20 ha)	81 83 84 86 88 89 91 93 93 95 97 99 101 103 105 107	ores	try ha) 30 31 31 32 32 33 34 35 36 37 37 38 39 40	land (in 40 ha) 80 82 83 85 87 88 90 92 94 96 98 99 101 103 106	Pasture (in 180 ha) 360 367 375 382 390 397 405 414 422 430 439 448 457 466 475	Plan 39 h	tation (in a) 195 199 203 207 211 215 220 224 228 233 238 242 247 252 257	Total Benefit 0 0 0 746 761 776 792 807 824 840 857 874 892 909 928 946 965 984	Flow 0 (453) (906) 519 523 526 529 532 535 537 538 539 540 540 540 540 540 539 538 539 540 540 540 540 540 540 540 540	nted Cost 396 740 691 161 158 156 153 150 147 144 142 139 136 134 131 129 126 124	nted Benefit 0 0 532 507 483 461 439 419 399 380 363 346 330 314 300 286 272	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	of Year Co 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	tal O&M st Cost 453 906 906 227 238 250 262 275 289 304 319 335 351 369 387 407 427	Total of Cost 453 906 227 238 250 262 275 289 304 319 335 351 369 387 407 427 448 471	Conse tion (in 20 ha)	81 83 84 86 88 89 91 93 95 97 99 90 101 103 105	ores	try ha) 30 31 32 32 33 34 35 36 37 37 38 39	land (in 40 ha) 80 82 83 85 87 88 90 92 94 96 98 99 101 103	Pasture (in 180 ha) 360 367 375 382 390 397 405 414 422 430 439 448 457 466 475 485	Plant 39 h	tation (in a) 195 199 203 207 211 215 220 224 228 233 238 242 247 252	Total Benefit 0 0 0 746 761 776 792 807 824 840 857 874 892 909 928 909 928 946 965 984 1,004	Flow 0 (453) (906) 519 523 526 529 532 535 537 538 539 540 540 540 540 540 538 539 540 540 538 539 540 533 540 533 540 533 540 533 540 533 540 533 540 533 540 533 540 533 540 540 540 533 535 537 538 540 540 540 540 540 540 540 540	nted Cost 396 740 691 161 158 156 153 150 147 144 142 139 136 134 131 129 126	nted Benefit 0 0 532 507 483 461 439 419 399 380 363 346 330 314 300 286	

Table III:1(a)

Economic Analysis of Environment Education for Soil Conservation Program

(Software Component)

Without Conversion Factor

**************************************		Sub		Grand	Farm		······································	Silvi			 		***·····
		Total			Conserva	Agro-	Grass		Conservation	n de la composición d La composición de la c	÷	Discou	Discou
		of	08M	of	tion (in				Plantation (in		Cash	nted	nted
	Year	سأبتح سيمت مستحد والمستحد	Cost	Cost	20 ha)	(in 3 ha)	40 ha)	ha)	39 ha)	Benefit	Flow	Cost	Benefit
22	2023		519	519	113	42				1,045		117	236
23	2024		545	545	. 116	43	114	514		-		115	.225
24	2025		572	572	118	. 44	117	524	284	•		113	214
25	2026		601	601	120	45	119	535				111	204
26	2027		631	631	123	45	121	546			500	109	195
27	2028		663	663	125	46	124	557				103	186
28	2029		696	696	128	47	126	568		1,176		107	177
29	2030		730	730	130	48	129					and the second second	169
			· · · · · ·								Total	5,076	7,942
					1	Internal F	Rate of F	Return	19.80%				
			· .			B/C Ratio	D		1.56	19. J. P. 19	.,	e Al Al	÷
•				· ·		NPV			3,067				

Note

The Sub-Total of Costs column derived from the cost components has been divided for 2003, 2004, and 2005 as 20%, 40%, and 40% respectively

O&M cost for 2006 has been taken as 10% of the Sub-Total of cost for 2006

From 2007 to 2030, the O&M cost has been increased by the growth of 5% per annum

Economic benefits of farm conservation for 2006 is calculated by multiplying revenue per ha of traditional variety of Maize by 20 ha

Economic benefits of farm conservation for 2007 is calculated by multiplying revenue per ha of improved variely of Maize by 20 ha

Economic benefits of farm conservation from 2008-2030 has been increased by the growth of 2% per annun Economic benefits from agro-forestry for 2006 is calculated by multiplying Plantation of 600 trees in agro-forestry/ha by 3 hectre

Economic benefits from agro-forestry from 2007 has been increased by the growth of 2% per annum Economic benefits from the grassland for 2006 is calculated by multiplying Grassland improvement/ha by 40 Economic benefits from grassland from 2007 has been increased by the growth of 2% per annum Economic benefit of Silvi Pasture for 2006 is calculated by multiplying Silvi Pasture Benefit/ha by 180 ha Economic benefits from silvi pasture from 2007 has been increased by the growth of 2% per annum Economic benefits from silvi pasture from 2007 has been increased by the growth of 2% per annum Economic benefit of Conservation Plantation for 2006 is calculated by multiplying Conservation Plantation Benefit/ha by 39 ha

Economic benefits from Conservation Plantation from 2007 has been increased by the growth of 2% per annum

Table III:1(b)

Economic Analysis of Environment Education for Soil Conservation Program

(Software Component)

With Conversion Factor

Productivity and Farm-Gate Price Productivity of Traditional Variety of Maize MT/ha: Productivity of Improved Variety of Maize MT/ha Average Farm-Gate Price (in Rs.) of Maize per Kg	1.4 1.9 8.62		Discoun O&M Co	, , , , , , , , , , , , , , , , , , , ,	2% 7% 10% 5%
Benefit Components (in Thousand Rs per hectare)			SCF	0.95	
Revenue per ha of Traditional Variety of Maize	12			•••	
Revenue per ha of Improved Variety of Maize	16			and the second	
Incremental Benefit per hectare	4	Converted			а. 1
Plantation of 600 trees in agro-forestry/ha	10	9.5	· .		
Grassland improvement	2	1.9			
Silvi Pasture Benefit	2	1.9			
Conservation Plantation Benefit	5	4.75			

Converted 2151.8

Cost Components (in Thousand Rs.)

Farm Conservation(in 20 ha)	800	
Agro-forestry (in 3 ha)	15	
Grassland (in 40 ha)	160	
Silvi Pasture (in 180 ha)	900	
Conservation Plantation (in 39 ha)	390	
Sub Total of Cost Components	2,265	:

:	•	Costs	(in '00	0 Rs.)		Ec	onomic	Benefits	(in '000 Rs)			· · ·	
		Sub		Grand	Farm			Silvi					
		Total		Total	Conserva	Agro-	Grass	Pasture	Conservation			Discou	Discou
1 (L	· •.	of	O&M	of	tion (in	forestry	land (in	(in 180	Plantation (in	Total	Cash	nted	nted
S.N	Year	Cost	Cost	Cost	20 ha)	(in 3 ha)	40 ha)	ha)	39 ha)	Benefit	Flow	Cost	Benefit
1	2002	 				19 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -				0	0		
2	2003	430		430						0	(430)	376	0
3	2004	861		861		et i per el	· .		-	0	(861)	703	0
4	2005	861		861		1.1	÷ .			0	(861)	657	0
- 5	2006		227	227	77	29	76	342	185	709	482	161	. 505
6	2007		238	238	78	29	78	349	189	723	485	158	482
7	2008	1997 - 1997 -	250	250	80	30	79	356	193	737	488	156	459
8	2009		262	262	82	- 30	81	363	197	752	490	- 153	438
9	2010		275	275	83	31	82	370	201	767	492	150	417
10	2011	. '	289	289	85	31	84	378	205	782	493	147	398
11	2012		304	304	87	. 32	86	385	209	798	495	144	379
12	2013		319	319	8 8	33	87	393	. 213	814	495	142	361
13	2014		335	335	90	33	89	401	217	830	496	139	345
14	2015		351	351	92	34	91	409	221	847	496	136	328
15	2016		369	369	94	35	93	417	226	864	495	134	313
16	2017		387	387	96	35	94	425	230	881	494	131	298
17	2018		407	407	98	36	96	434	235	899	492	129	285
18	2019		427	427	100	. 37	98	442	240	917	490	126	271
19	2020		448	448	102	38	100	451	244	935	487	124	259
20	2021		471	471	104	38	102	460	249	954	483	122	246
21	2022		494	494	106	39	104	469	254	973	478	119	235

Table III:1(b)

Economic Analysis of Environment Education for Soil Conservation Program

(Software	Component)	
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With Conversion Factor

				- 1 -				1.1					
		Sub		Grand	Farm			Silvi	, , , ,			· · · · ·	
		Total		Total	Conserva	Agro-	Grass	Pasture	Conservation	an ta sa		Discou	Discou
		of	O&M	of	tion (in	forestry	land (ir	n (in 180	Plantation (in	Total	Cash	nted	nted
S.N	Year	Cost	Cost	Cost	20 ha) 👘	(in 3 ha) 40 ha)	ha)	39 ha)	Benefit	Flow	Cost	Benefit
22	2023		519	519	108	4	0 106	479	259	992	473	117	224
23	2024		545	545	110	4	1 109	488	265	1,012	467	115	214
24	2025		572	572	112	. 4	2 111	498	270	1,032	460	113	204
25	2026		601	601	114	4	2 113	508	275	1,053	452	111	194
26	2027		631	631	. 117	4	3 118	5 518	281	1,074	443	109	185
27	2028		663	663	119	4	4 117	7 529	286	1,096	. 433	107	176
28	2029		696	696	121	4	5 120) 539	292	1,118	422	105	168
29	2030	i -	730	730) 124	. 4	6 122	2 550	298	1,140	409	103	160
				· · · · · · · · · · · · · · · · · · ·		·			and the second second		Total	4,984	7,545
	//					Interna	Rate of	Return	19.27%	, `	· .		
	•					B/C Ra	tio		1.51		t de		· . ·
						NPV			2,740) .			

Note

The Sub-Total of Costs column derived from the cost components has been divided for 2003, 2004, and 2005 as 20%, 40%, and 40% respectively

O&M cost for 2006 has been taken as 10% of the Sub-Total of cost for 2006

From 2007 to 2030, the O&M cost has been increased by the growth of 5% per annum

Economic benefits of farm conservation for 2006 is calculated by multiplying revenue per ha of traditional variety of Maize by 20 ha

Economic benefits of farm conservation for 2007 is calculated by multiplying revenue per ha of improved variety of Maize by 20 ha

Economic benefits of farm conservation from 2008-2030 has been increased by the growth of 2% per annun Economic benefits from agro-forestry for 2006 is calculated by multiplying Plantation of 600 trees in agro-forestry/ha by 3 hectre

Economic benefits from agro-forestry from 2007 has been increased by the growth of 2% per annum Economic benefits from the grassland for 2006 is calculated by multiplying Grassland improvement/ha by 40 Economic benefits from grassland from 2007 has been increased by the growth of 2% per annum Economic benefit of Silvi Pasture for 2006 is calculated by multiplying Silvi Pasture Benefit/ha by 180 ha Economic benefits from silvi pasture from 2007 has been increased by the growth of 2% per annum

Economic benefit of Conservation Plantation for 2006 is calculated by multiplying Conservation Plantation Benefit/ha by 39 ha

Economic benefits from Conservation Plantation from 2007 has been increased by the growth of 2% per annum

Table III:2(a)

Economic Analysis of Community Empowerment and Inome Generating Activities (Without Conversion Factor)

						(11.0.							
	Perc	entag	e increa	se in Reve	enue from	Wood		Percentaç	je Increa	ase in Liv	estock O	peration (Cost
			2006-20		10%				2006-20	15	0.5%	•	
			2016-20		20%				2016-20	30	1%		
	Perce	entage	Increas	e in Livesto	ock income		5%						
		ý			14. 14						Converte	əd	
	Fund	for En	vironme	nt Educatio	on & Incom	e Gene	ration (in	'000 Rs.)		58,535	58,535		
	Disco	ount R	ate	7%		SCF	1.00	1					·
	e - 15			Costs in	'000 Rs.)		Bene	fits (in '00	0 Rs.)	- 			
•			Overall	Livestock		·	Income		· · ·		Net		Discoun
			Capital	Capital	Livestock		from	Livestock		Total	Cash	Discount	
	S.N.	Year	Cost	Cost	Op. Cost		Wood	Income	Income	Revenue		ed Cost	Benefit
	1	2003	11,707	1,020	923	13,650		1,258			(12,392)		1,175
	2		23,414	2,040	1,845	27,299		3,773			(23,527)	•	3,295
	3		23,414	2,040	1,845	27,299		7,546			(19,754)		6,159
	4		58,535		4,613	4,613	600	12,576		13,253	-	3,520	10,111
	5	2007		· .	4,636	4,636	660		78	•	-	3,306	9,941
۰.	6	2008	n'	÷	4,660	4,660	726			-		3,105	
	7	2009	1997 - 19		4,683	4,683	799					2,916	
	8	2010			4,706	4,706	878			-		2,739	
	9	2011	· .		4,730	4,730	966		85	-		2,573	
:	10	2012			4,754	4,754	1,063					2,416	
	11	2013		·	4,777	4,777	1,169				•	2,270	
	12	2014	1.1		4,801	4,801	1,286					2,132	• .
	13	2015			4,825	4,825	1,415					2,002	
	. 14	2016	Ξ.		4,873	4,873	1,698			-	-	1,890	
	15	2017			4,922	4,922	2,037					1,784	
	16	2018			4,971	4,971	2,445					1,684	
•	17	2019			5,021	5,021	2,934					1,590	
	18	2020	·· .		5,071	5,071	3,520					1,500	
	19	2021		11 (A)	5,122	5,122	4,224					1,416	
	20	2022			5,173	5,173	5,069				· ·	1,337	
	21	2023	· · ·		5,225	5,225	6,083			-	-	1,262	
	22	2024			5,277	5,277	7,300	-		-		1,191	8,504
	23	2025		· ·	5,330	5,330	8,760			•	-	1,124	
•	24	2026			5,383	5,383	10,512			•		1,061	8,673
	25	2027			5,437	5,437	12,614			-		1,002	
. •	_ 26	2028		· · ·	5,492	5,492	15,137	36,788	119	52,044	46,553	946	8,962

27	2029		· .	5,546	5,546	18,164	38,627	121	56,913	51,367	893	9,159
28	2030		· .	5,602	5,602	21,797	40,559	124	62,480	56,878	843	9,397
	in the						· .			Total	105,386	234,580
						Internal F	Rate of Re	turn	19.33%			
	1997 - A.	÷.				B/C Ratio)		2.23			
		· .				NPV			104,356			

Note

Overall Capital Cost is divided into 20%,40%, and 40% of Fund for Environment Education & Income Generation for 2003, 2004, and 2005 respectively

Livestock Capital Cost is divided into 20%,40%, and 40% of the livestock cost for 2003, 2004, and 2005 respectively. Re. Table AN 7 for livestock capital costs

Livestock Operation Cost is divided into 20%,40%, and 40% of the livestock operation cost for 2003.

2004, and 2005 respectively. Re Table AN 7 for livestock operation costs

The value of wood for 2006 is taken from the estimation done in Table AN 7

The value of wood from 2007 to 2015 is forcasted at the growth of 10% per annum, while from 2016 to 2030, it is forcasted at the growth of 20% per annum

Livestock income for the year 2003, 2004, and 2005 has been divided into 10%, 30%, and 60% respectively

Table III:2(b)

Economic Analysis of Community Empowerment and Inome Generating Activities (With Conversion Factor)

Perce	ntage Increase in Re	venué from Wood	Percenta	ge Increase in Liv	estock Operat	ion Cost
	2006-2015	10%		2006-2015	0.5%	
	2016-2030	20%		2016-2030	1%	
Percen	tage Increase in Lives	tock income	5%			
					Converted	
Fund for	or Environment Educa	tion & Income Genera	tion (in '000 Rs.)	58,535	55,608	

Fund for Environment Education & Income Generation (in '000 Rs.)Discount Rate7%SCF0.95

			Costs in	'000 Rs.)		Bene	fits (in '00	0 Rs.)	- 			
		Overall	Livestock	·		Income				Net		Discoun
		Capital	Capital	Livestock	Total	from	Livestock	Farm	Total	Cash	Discount	ted
<u>S.N.</u>	Year	Cost	Cost	Op. Cost		Wood	Income		Revenue	and the second sec	ed Cost	
1	2003	11,122	969	877	12,967		1,195		1,195	(11,772)	. 12,119	1,117
2	2004	,	1,938	1,753	25,934		3,584		3,584	(22,350)	22,652	3,131
3		22,243	1,938	1,753	25,934		7,168			(18,766)	21,170	5,851
4		55,608		4,383	4,383	570			12,594	8,211	3,344	9,608
5	2007			4,405	4,405	627			-	8,845	3,140	9,447
6	2008			4,427	4,427	690					2,950	
7	2009			4,449	4,449	759				10,222	2,770	
8	2010			4,471	4,471	835	14,522	83	15,440	10,969	2,602	
9	2011			4,493	4,493	918			16,251	11,758	2,444	8,839
10	2012			4,516	4,516	1,010			17,107	12,591	2,296	8,696
11	2013			4,538	4,538	1,111	16,811			13,472	2,156	8,556
12	2014			4,561	4,561	1,222	17,651	90	18,963	14,402	2,025	8,420
13	2015			4,584	4,584	1,344			19,970	15,386	1,902	8,287
14	2016			4,630	4,630	1,613				16,538	1,796	8,209
15	2017			4,676	4,676	1,935			-		1,695	
16	2018	÷		4,723	4,723	2,322		98	23,876	19,153	1,600	8,087
17	2019			4,770	4,770	2,787			25,415	20,645	1,510	8,046
18	2020			4,818	4,818	3,344			27,101	22,283	1,425	8,018
19	2021			4,866	4,866	4,013			28,954	24,088	1,345	8,006
20	2022			4,915	4,915	4,816	26,079	106	31,001	26,086	1,270	8,011
21	2023			4,964	4,964	5,779	27,383	108	33,270	28,306	1,199	8,035
22	2024			5,013	5,013	6,935			35,797	30,784	1,132	8,080
23	2025			5,064	5,064	8,322			-	-	1,068	
24	2026			5,114	5,114	9,986			41,800	36,686	1,008	8,241
25	2027			5,165	5,165	11,984				40,219	952	8,362
26	2028			5,217	5,217	14,380				44,231	898	8,515
27	2029			5,269	5,269	17,256			54,074	48,805	848	8,702
28	2030			5,322	5,322	20,708	38,531	124	59,362		800	
	····									Total	100,117	222,895
							Rate of R	eturn	19.34%			
						B/C Ra	tio		2.23			
						NPV			99,180			

<u>Note</u>

Overall Capital Cost is divided into 20%,40%, and 40% of Fund for Environment Education & Income Generation for 2003, 2004, and 2005 respectively

Livestock Capital Cost is divided into 20%,40%, and 40% of the livestock cost for 2003, 2004, and 2005 respectively. Re. Table AN 7 for livestock capital costs

Livestock Operation Cost is divided into 20%,40%, and 40% of the livestock operation cost for 2003,

2004, and 2005 respectively. Re Table AN 7 for livestock operation costs

The value of wood for 2006 is taken from the estimation done in Table AN 7

The value of wood from 2007 to 2015 is forcasted at the growth of 10% per annum, while from 2016 to 2030, it is forcasted at the growth of 20% per annum

Livestock income for the year 2003, 2004, and 2005 has been divided into 10%, 30%, and 60% respectively

Table III:3(a)

Economic Analysis of the Software Component (Integrating Environment Education and Community Empowerment) Without Conversion Factor

Disco	unt Ra	te	7%			
S.N.	Year	Total Cost	Total Benefit	Cash Flow	Discounted Cost	Discounted Benefit
1	2003	14,103	1,258	(12,845)	13,180	1,17
2	2004	28,205	3,773	(24,433)	24,636	
3	2005	28,205	7,546	(20,660)		
4	2006	4,840	14,003	9,163	3,692	
5	2007	4,874	14,708	9,834	3,475	10,48
6	2008	4,909	15,451	10,542	3,271	10,29
7	2009	4,945	16,234	11,289	3,080	
8	2010	4,982	17,060	12,078	2,899	
9	2011	5,019	17,930	12,911	2,730	
10	2012	5,057	18,847	13,790	2,571	9,58
11	2013	5,096	19,815	14,719	2,421	9,41
12	2014	5,136	20,836	15,700	2,280	9,25
13	2015	5,177	21,913	16,736	2,148	9,09
14	2016	5,242	23,191	17,948	2,033	8,99
15	2017	5,310	24,575	19,265	1,924	8,90
16	2018	5,378	26,078	20,700	1,822	8,83
17	2019	5,448	27,717	22,269	1,725	8,77
18	2020	5,520	29,511	23,991	1,633	8,73
19	2021	5,593	31,482	25,889	1,546	8,70
20	2022	5,668	33,656	27,989	1,465	8,69
21	2023	5,744	36,066	30,321	1,387	8,71
22	2024	5,822	38,747	32,924	1,314	8,74
23	2025	5,902	41,744	35,841	1,245	8,80
24	2026	5,984	45,109	39,124	1,180	8,89
25	2027	6,068	48,904	42,836	1,118	9,01
26	2028	6,154	53,204	47,050	1,060	9,16
27	2029	6,242	58,096	51,854	1,005	9,34
28	2030	6,332	63,686	57,354	952	9,57
				Total	110,817	243,124
		Internal Rate o	f Return	19.78%		
		B/C Ratio		2,19		
		NPV		132,307		

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Table III:3(b)

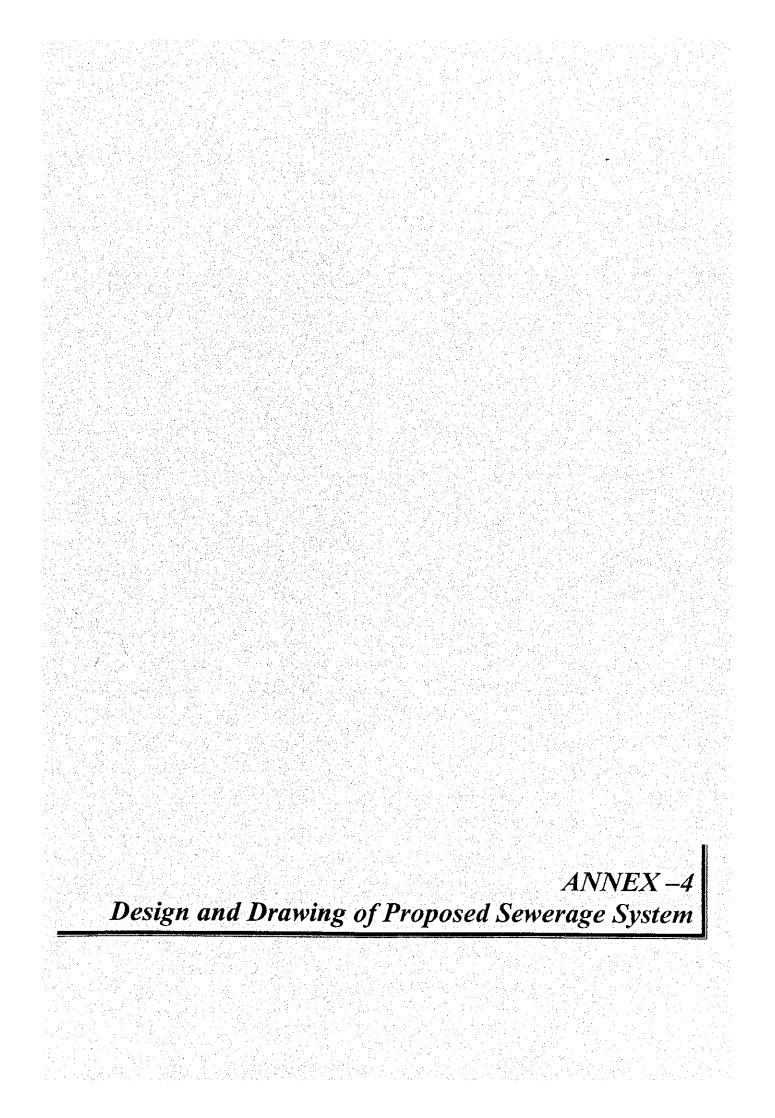
Economic Analysis of the Software Component (Integrating Environment Education and Community Empowerment)

With Conversion Factor

Discount Rate

7%

· · · · · ·			، -		Discounted	Discounted
S.N.	Year	Total Cost	Total Benefit	Cash Flow	Cost	Benefit
1	2003	13,398	1,195	(12,203)	12,521	1,117
2	2004	26,795	3,584	(23,211)	23,404	
3	2005	26,795	7,168	(19,627)	21,873	
4	2006	4,609	13,303	8,694	3,516	
5	2007	4,642	13,973	9,330	3,310	
6	2008	4,676	14,679	10,002	3,116	
7	2009	4,711	15,423	10,712	2,934	9,605
8	2010	4,746	16,207	11,460	2,762	
. 9	2011	4,782	17,033	12,251	2,601	9,265
10	2012	4,819	17,905	13,086	2,450	
11	2013	4,857	18,824	13,967	2,308	
12	2014	4,896	19,794	14,898	2,174	
- 13	2015	4,935	20,817	15,882	2,048	
14	2016	4,999	22,031	17,033	1,939	
15	2017	5,063	23,346	18,283	1,835	•
16	2018	5,130	24,774	19,645	1,738	-
. 17	2019	5,197	26,332	21,134	1,645	
18	2020	5,266	28,036	22,769	1,558	
19	2021	5,337	29,908	24,571	1,476	
20	2022	5,409	31,974	26,565	1,398	•
21	2023	5,483	34,262	28,779	1,324	
22	2024	5,558	36,809	31,251	1,255	-
23	2025	5,636	39,656	34,020	1,189	
24	2026	5,715	42,853	37,138	1,127	8,448
25	2027	5,796	46,459	40,662	1,068	8,560
26	2028	5,880	50,543	44,664	1,012	8,703
27	2029	5,965	55,191	49,226	960	8,882
28	2030	6,052	60,502	54,450	.910	
			·	Total	105,450	
		Internal Rate of	f Return	19.76%		
		B/C Ratio		2.19		
		NPV		125,517		

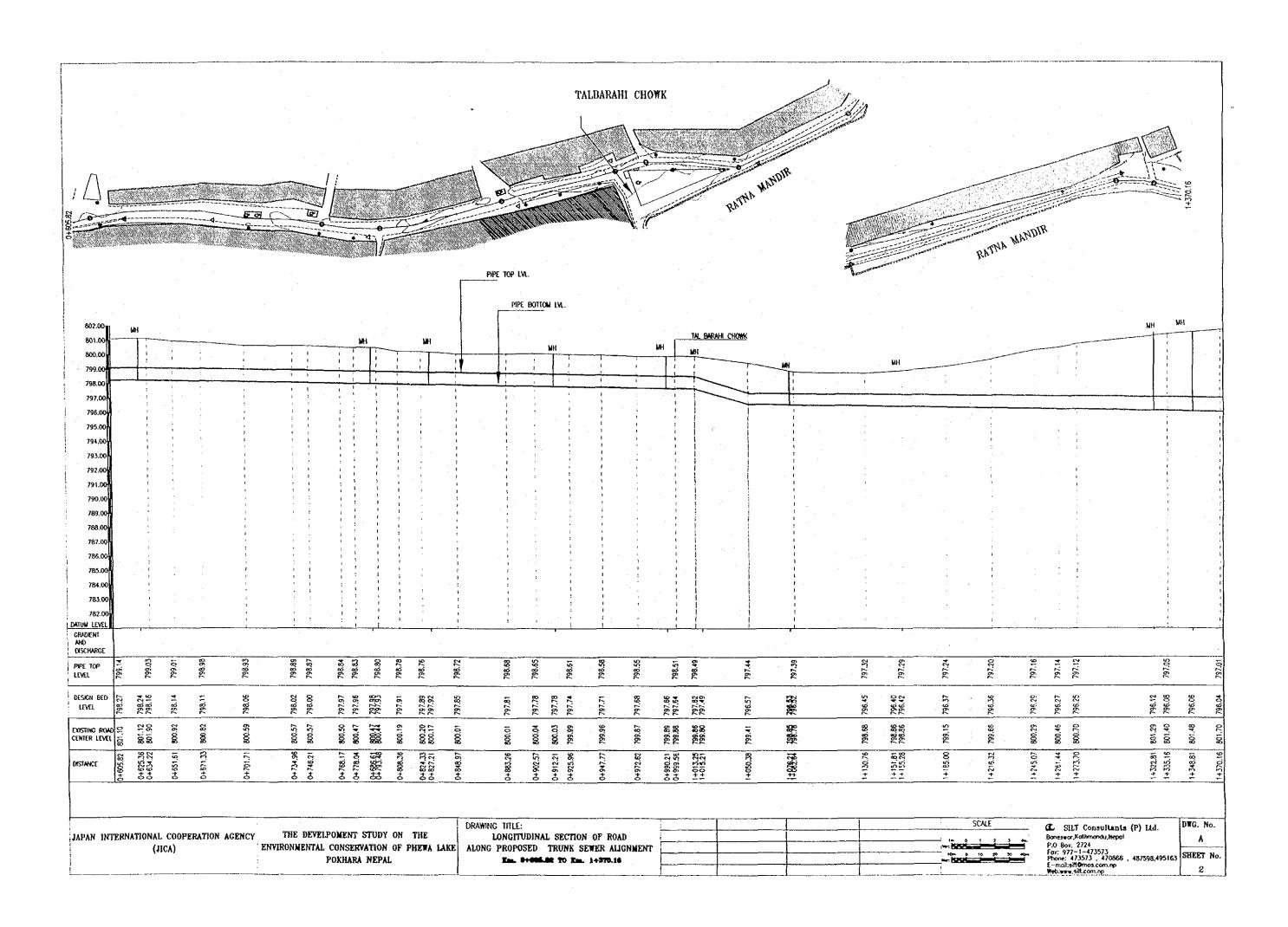


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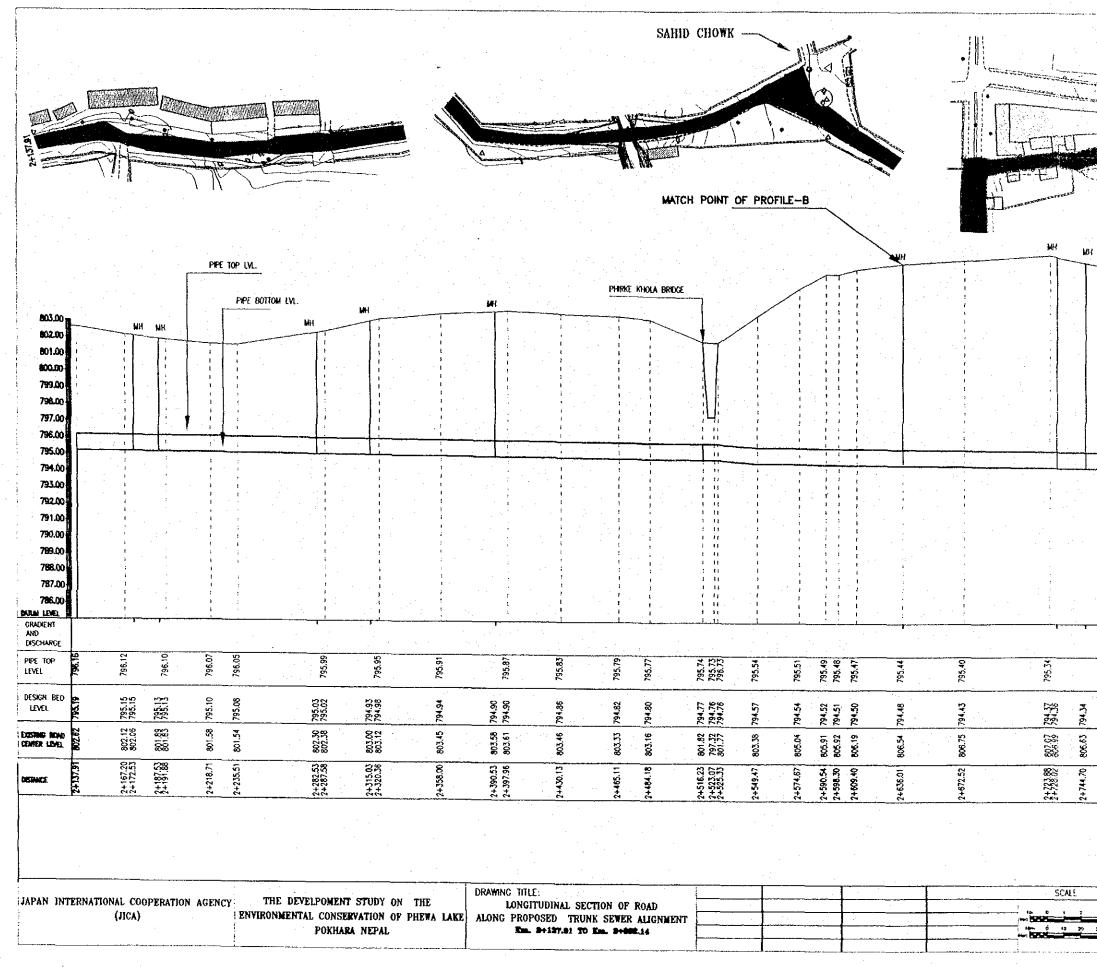
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JAPAN INTERNATIONAL COOPERATION AGENCY	THE DEVELPOMENT STUDY ON THE	LONGITUDINAL SECTION OF ROAD			Boneswor, Kothmandu, Nepol	i A
(JICA)	ENVIRONMENTAL CONSERVATION OF PHEWA LAKE	ALONG PROPOSED TRUNK SEWER ALIGNMENT			P.0 Bov: 2724 Fox: 977-1-473573 Phone: 473573 , 470866 , 487598,495163	·
	POKHARA NEPAL	Xm. 6+660 TO Xm. 8+866.82		 10- 0 t0 20 30 40-	Phone: 473573 , 470866 , 487598,495163	SHEET No.
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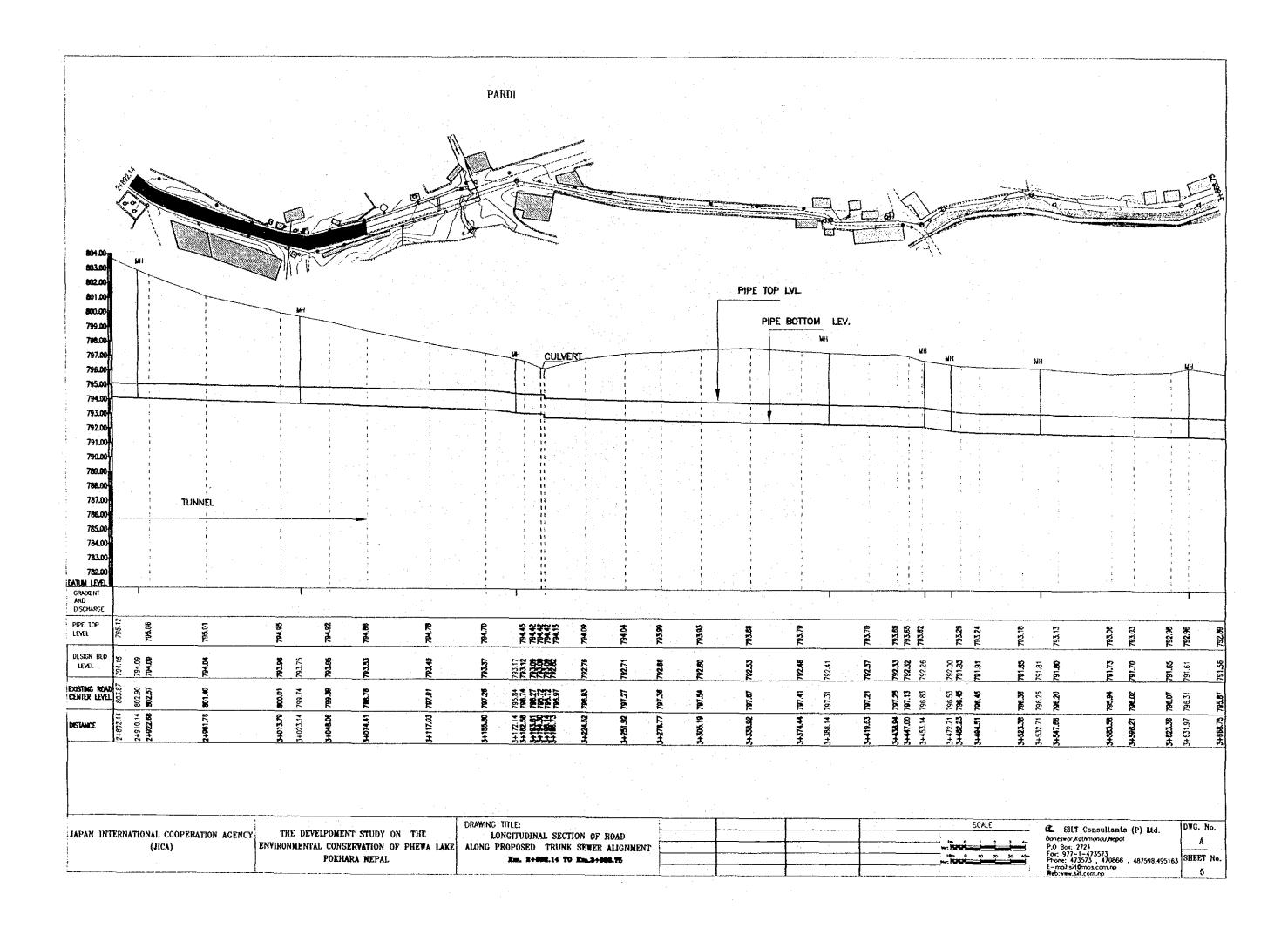
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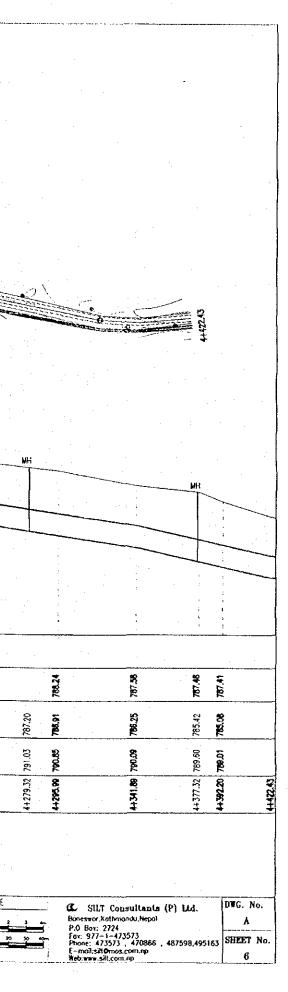
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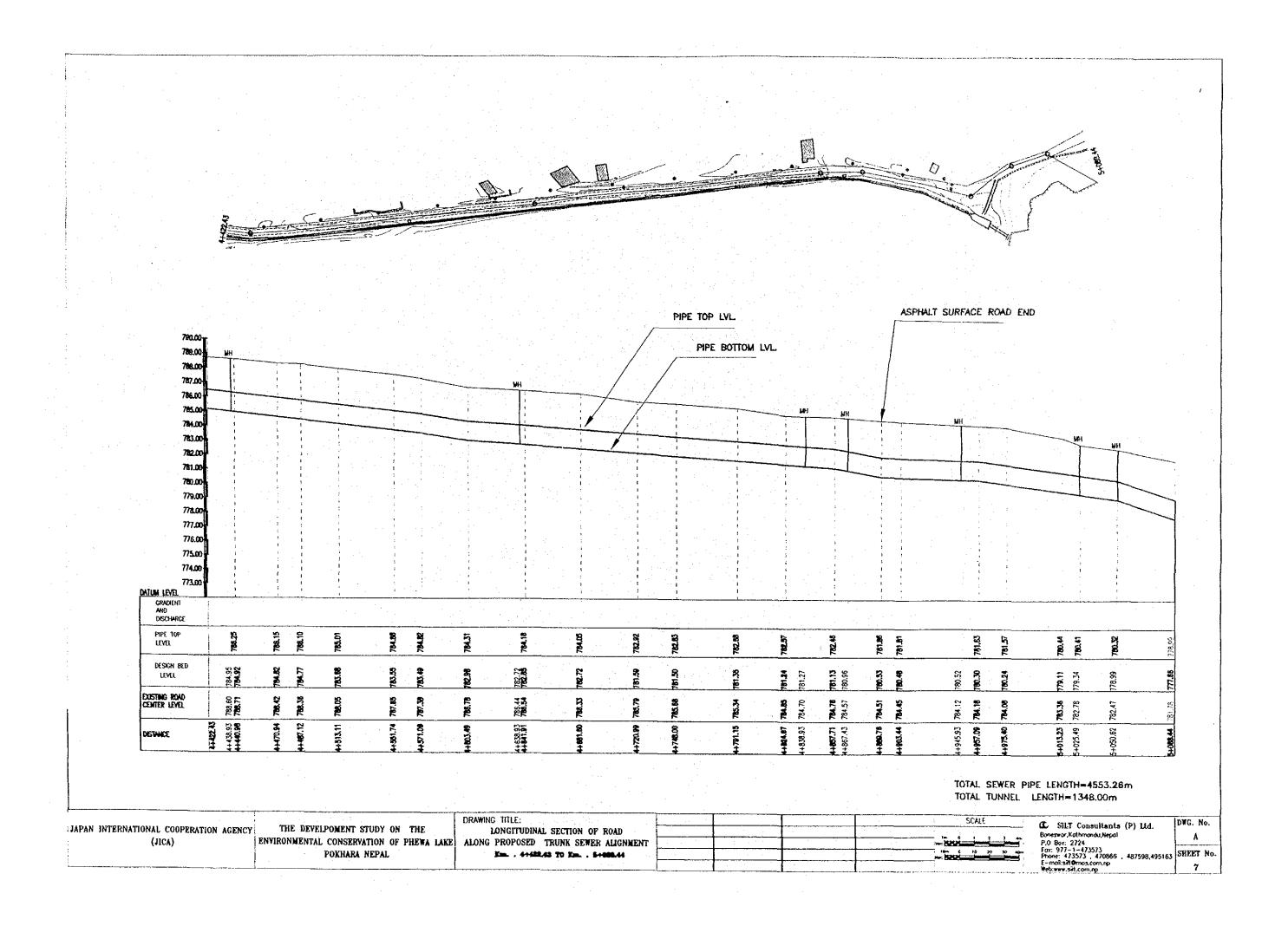


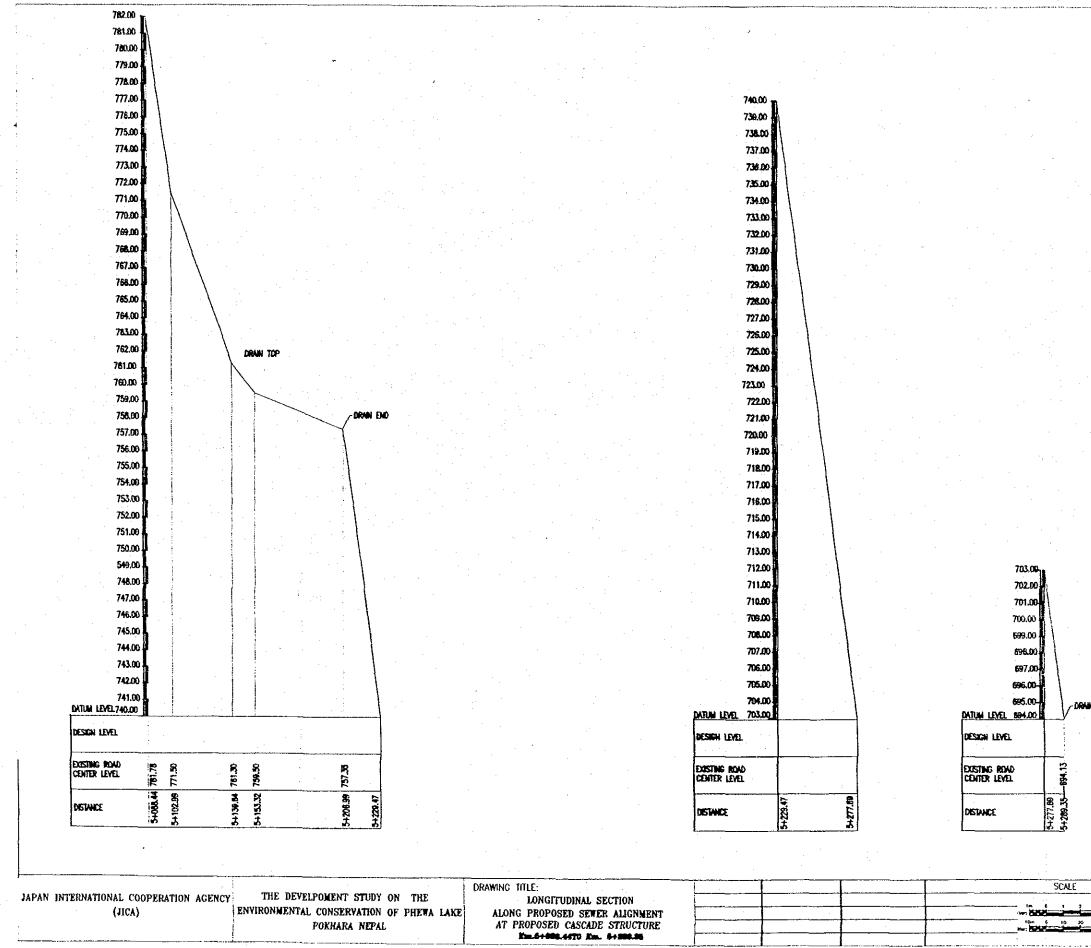
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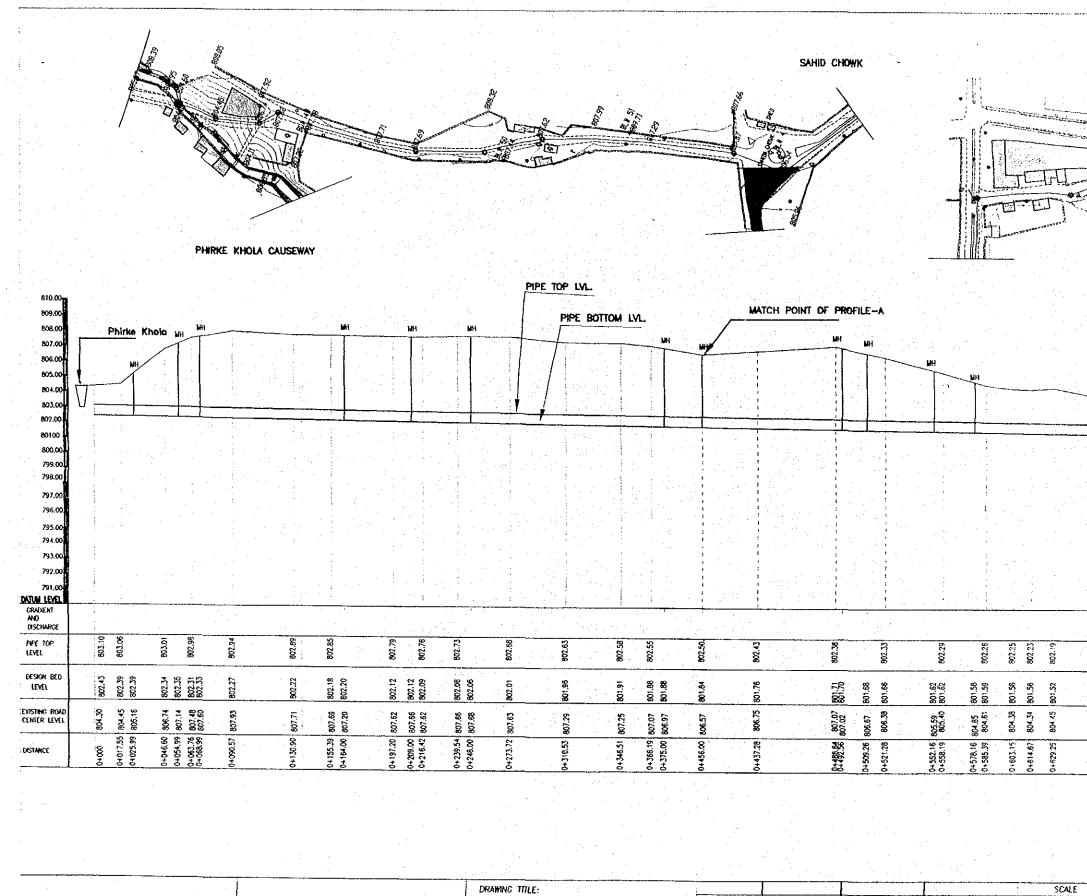
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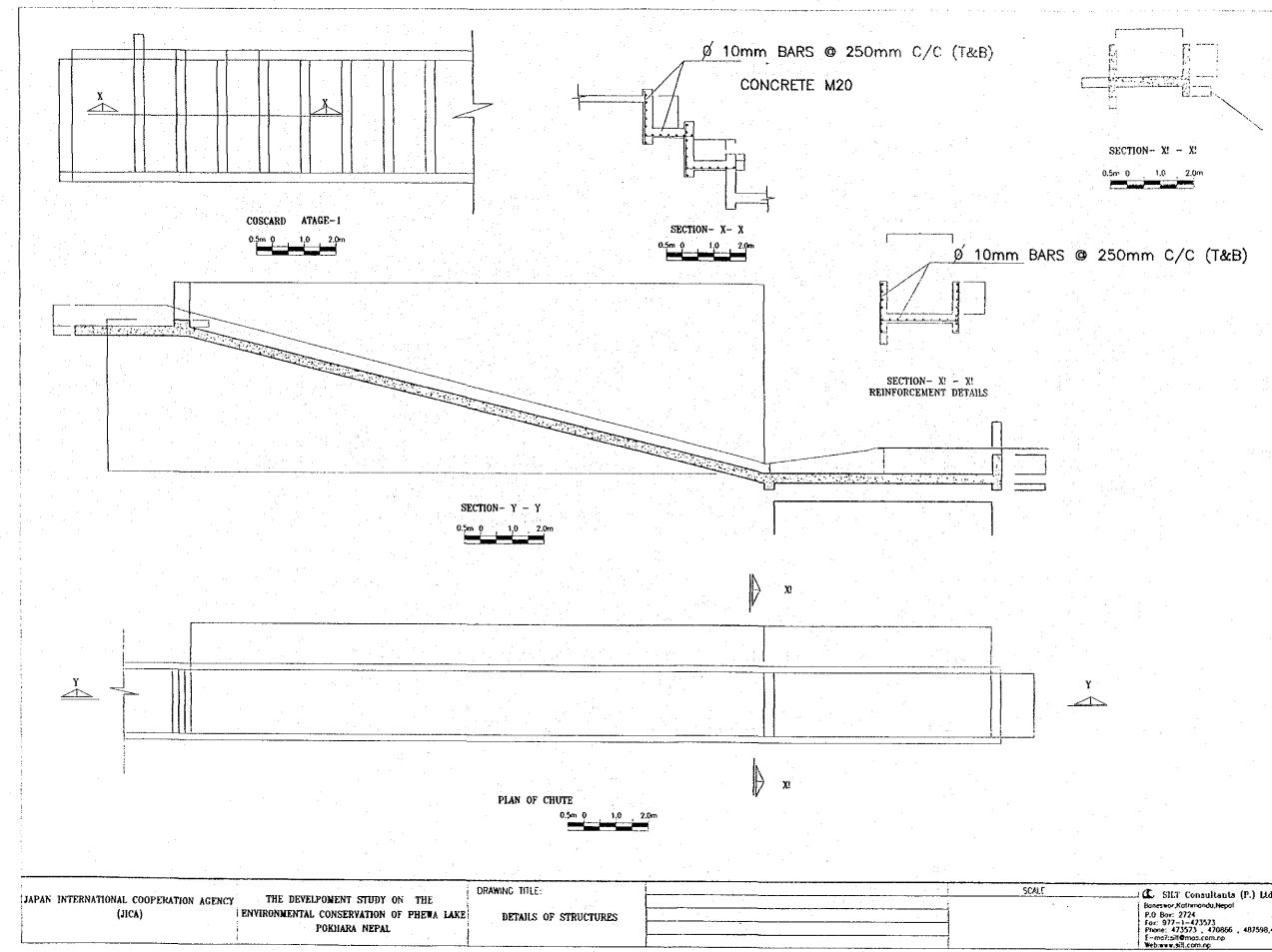
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
THE DEVELPONENT STUDY ON THE ENVIRONMENTAL CONSERVATION OF PHEWA LAKE POKHARA NEPAL
DRAWNG THLE: LONGITUDINAL SECTION OF ROAD ALONG PROPOSED LATERAL SEWER ALIGNMENT ENL 0+000 TO Em.0+012.00 (PHARE XEOLA-MARED.COVE)

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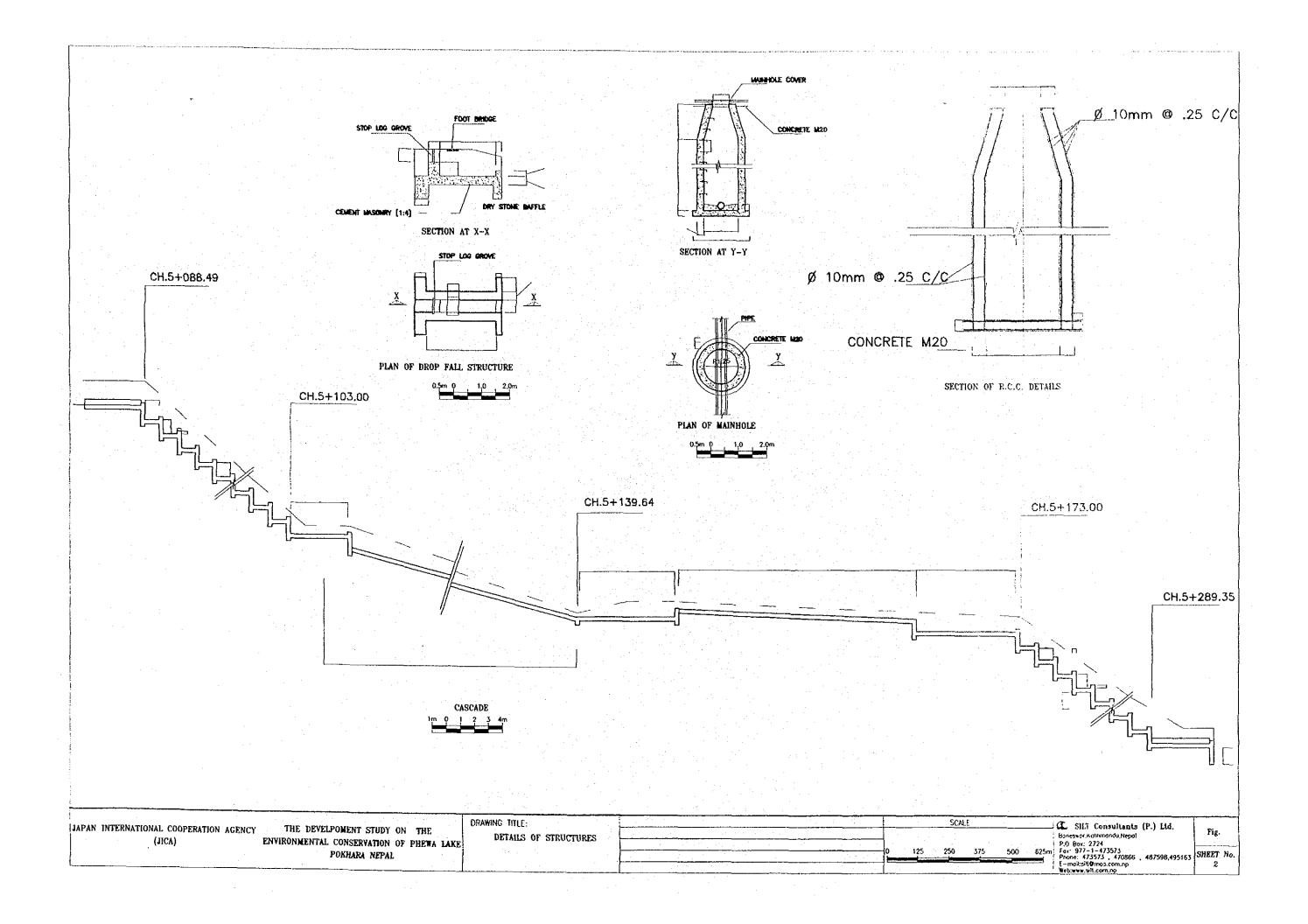
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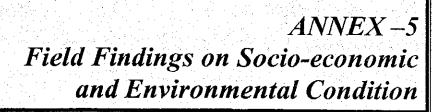
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F.U. 007: 2724 For: 977-1-473573 Phone: 473573, 470866, 487598,495163 E-ms#sill@mos.com.np Web.www.sill.com.np	SHEET No. J





VDC	Total HH	Population			Average Family Size Person/HH
		Male	Female	Total	
Dhikurpokhari	1702	3745	4352	8097	4.75
Kaskikot	1522	3207	3390	6597	4.33
Sarangkot	1433	3176	3455	6631	4.62
Chapakot	641	1460	1792	3252	5.07
Pumdi-Bhumdi	1590	3771	4130	7901	4.46
Bhadaure-Tamagi	766	1934	2055	3989	5.20
Total	7654	17293	19174	36467	4.73
	۶ <u> </u>	·		L.,	CBS: 2001

Total No of HHs and Population in the Rural Watershed Area of Phewa Lake

Total No of HHs and Population in Sampled Area

	· · · · · · · · · · · · · · · · · · ·			and the second	· · . · · ·
VDC	Total HH	Sampled HH	Ward No	Cluster	Total Pop.
Dhikurpokhari	1702	330	1,2,3,4,5,6,7	Naudanda, Adhikari Danda, Paundurkot	8097
Kaskikot	1522	308	1,2,4,5,6,9	Kotmuni, Pame, Deurili, Baskot, Karkiko Tahara,Laurik	6597
Sarangkot	1433	327	2,3,4,6,7,8	Sarangkot, Shiyadibager, Gothathi, Bhakunde, Phaure- khapunde, Gairi Chautara	6631
Totai	4,657	965			21,325

Educational Status In the Watershed of Phewa Lake

Level	No.of Schools	No. of Students	No. of Teacher			
Pokhara Sub-Metropolis, Phewa lake catchment wards 1- 9 and 17						
Primary	16	2,208	64			
L.Secondary	6	2,346	48			
Higher/Secondary School	21	2,835	105			
Dhikurpokhari						
Primary	9	1,242	36			
L.Secondary	. 1	391	8			
Higher/Secondary School	2	270	10			
Kaskikot						
. Primary	8	1,104	32			
L. Secondary	1	391	8			

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Annex-5

Level	No.of Schools	No. of Students	No. of Teacher	
Higher/Secondary School		135	5	
Sarangkot		100		
Primary	6	828	24	
L.Secondary	2	782	16	
Higher/Secondary School	1	135		
Chapakot	·	<u> </u>		
Primary	5	690	20	
L. Secondary	1	391	8	
Higher/Secondary School	1	135	5	
Pumdi Bhumdi		<u></u>		
Primary	14	1932	56	
L.Secondary	-	-	-	
Higher/Secondary School	1	135	5	
Bhadaure Tamagi		<u> </u>		
Primary	4	552	16	
L. Secondary School	2	782	16	
Higher/Secondary School	1	135	5	
Total	7	1,469	37	

Caste Composition in the Sampled Area (in percentage)

Ethnicity	Name of the VDC				
	Dhikurpokhari	Kaskikot	Sarangkot		
Brahmin/Chhetri	68	59	66		
Other Ethnic Groups	12	9	22		
Oppressed Groups	20	32	12		
Total	100	100	100		
	·				

Source: Field Survey

Land Holding Pattern (HH%)

VDC	land					
	3-0.5 ha	0.5-1ha	1-2ha	2-5ha	Landless	
Dhikurpokhari	44	26	24	1	5	
Kaskikot	36	35	8	1	20	
Sarangkot	73	23	2	1.	1	

VDC			Mont	h	
• •	0-3	3-6	6-9	9-12	Surplus
Dhikurpokhari	24	33	17	17	9
Kaskikot	31	28	24	11	6
Sarangkot	32	29	15	18	6

Food Availability in Sampled Area (HH%)

Source: Field Survey

Income Distribution in Sampled Area (HH%)

	Income Status				
VDCs	Surplus	Income Status=Exp.	Deficit		
Dhikurpokhari	6	18	76		
Kaskikot	5	11	84		
Sarangkot	8	18	74		

Source: Field Survey

Average Land Value

<u> </u>					
VDCs	Paddy Field	Up Land	For Building		
Dhikurpokhari	Rs 71,660	Rs 51,667	Rs 133,334		
Kaskikot	Rs 76,667	Rs 50,000	Rs 2,93,343		
Sarangkot	Rs 240,000	Rs 130,667	Rs 400,000		
			<u></u>		

Source: Field Survey

Average Labor Cost

VDC S	Male	Female
Dhikurpokhari	[°] Rs 175	Rs 65
Kaskikot	Rs 170	Rs 70
Sarangkot	Rs 185	Rs 85

Source: Field Survey

Participation for Collecting Fodder (%)

Male	Female	Male Child	Female Child
42	48	4	6
39	53	4	4
44	46	4	6
	42 39	42 48 39 53	Child 42 48 4 39 53 4

VDCs	Fully Concrete	Tin Roofed	Fully Thatched	Stone Roofed
Dhikurpokhari	8	54	4	35
Kaskikot	4	62	13	16
Sarangkot	7	79	1	6

House Type in Sampled Area (%)

Source: Field Survey

No. of Community Forest in Sampled Area

VDCs	No. of Community Forest	Male Participation	Female Participation
Dhikurpokhari	. 8	71%	29%
Kaskikot	4	93%	7%
Sarangkot	7	92%	5%

Source: Field survey

No. of Other Users Committee in Sampled Area

Environ- mental	Conser- vation	Irrigation	Drinking water	Other
-	-	2	4	2
-	-	1	6	1
•	•	2	4	3
-	-	5	14	6
				mental vation water - - 2 4 - - 1 6 - 2 4 4

Source: Field survey

VDCs	Bicycle	M. bikes	Jeep/ Car	Tractor/T ruck	Bus	Power Tiller	Others
Dhikurpokhari	8	12	3 ′	2	5		1 Taxi
Kaskikot	23	7	1	1	1	2	1 Taxi
Sarangkot	46	29	1	-	-	-	1 Van

No. of Private Transportation in Sampled Area

Source: Field Survey

Communication and Other Electrical Facilities In Sampled Area

Radio	τv	Telephone	Refrigerator
95%	63%	3%	5%
90%	38%	2%	8%
89%	44%	2%	9%
	95% 90%	95% 63% 90% 38%	95% 63% 3% 90% 38% 2%

Percentage of Household for Protection and Management of Natural Resources in Sampled Area (HH%)

	Protection and Management of								
VDCs	Agricultural land	Forest Resources	Water Resources	Mineral Resources	Tourism Resources	Herbal Resources			
Dhikurpokhari	88	53	27	-	13	2			
Kaskikot	86	37	27		30	2			
Sarangkot	75	38	22	-	30	2			

Source: Field Survey

No. of Business Status in Sampled Area

	Title							
VDCs	Tea Shop	Provisional	Hotel/Res.	Cloth Shop	Souvenir Shop	Others		
Dhikurpokhari	14	20	7	10	. 2	8		
Kaskikot	30	23	14	4	3	1		
Sarangkot	22	16	29	14	30	2 .		

Source: Field Survey

Time Utilization by Gender in Sampled Area (In percentage/hour)

Title	: DI	nikurpokh	ari		Kaskikot			Sarangkot		
	Male	Female	Child	Male	Female	Child	Male	Female	Child	
Fetching Water	32	60	8	31	62	7	42	50	8	
Collection of Fuel Wood	26	57	16	47	46	9	40	52	8	
Involvement in Env. Preservation Work	38	23	5	37	27	-	34	20	-	
Childcare	22	73	5	28	71	, 1	21	72	7	
Agriculture Farming	65	32	3	46	47	7	47	41	12	
Marketing of Products	50	32	8	41	54	5	37	51	12	
Attending Public Meeting	73	22	5	61	35	4	80	18	2	
Access of Credit	15	83	2	14	86	-	10	90	-	
Decision Making	50	45	5	52	47	1	61	38	1	

Annex-5

	Title							
VDCs	INGO	NGO	СВО	Youth Club	Others	Total		
Dhikurpokhari	1	4	5	1	3	13		
Kaskikot	1	3	7	5	2 :	18		
Sarangkot	6	5	13	8	8	40		

Source: Field Survey

Livestock Feeding Practice in Sampled Area (HH%)

VDCs	Open Grazing	Stall Feeding		
Dhikurpokhari	-	100		
Kaskikot	16	84		
Sarangkot	17	83		

Main Source of Fodder in Sampled Area (In percentage)

		VDCs	t en a
Title	Dhikur- pokhari (%)	Kaskikot (%)	Sarangkot (%)
Community Forest			
Within Study Area	38	38	26
Outside Study Area	8	3	5
From Government Forest			
Within Sub Watershed Area	15	10	16
Outside Sub Watershed Area	2	5	8
Other Sources			· · · ·
Private Forest	6	4	9
Pasture Land	8	6	4
Farm Land	23	34	32
Total %	100	100	100

Source: PRA, Group Discussion

Migration Trend (Average) in Sampled Area

-	Trend	ln	Out	Migration
VDCs	% migratic %		National	International
Dhikurpokhari	3%	0.5%	2.1%	0.4%
Kaskikot	10%	6%	3%	1%
Sarangkot	28%	13.5%	14%	0.5%

Source: PRA, Group Discussion

Annex-5

VDCs	Cow/Oxen			Buffalos		Sheep/Goat		Chicken		Pig			
4003	Local	Imp.	Total	local	lmp,	Total	local	Imp	Total	local	Imp.	Total	
Dikurpokhari	2740	211	2951	1971	531	2502	2908	221	3119	3836	1269	5105	-
Kaskikot	2327	69	2396	2308	138	2446	2243		2243	1448	988	2436	23
Sarangkot	1923	103	2026	1823	88	1911	1877	167	5163	1747	1241	2988	120

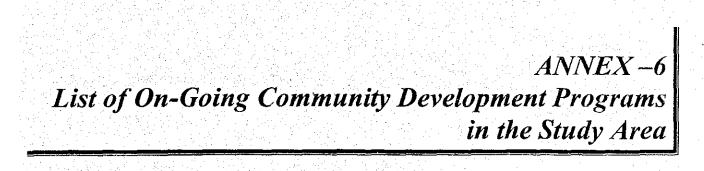
Livestock Population of the VDC

Source: PRA, Group Discussion

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LIST OF ON-GOING COMMUNITY DEVELOPMENT PROGRAMS

SN	Activities	Place	Organizations
1.	Water Supply Project	Kaskikot	Jan Heet Yuwa Club, Sanitation Frontier, France
2.	Park and Stadium	Dhupi Chaur	Jan Heet Yuwa Club
	Development, 40 Ropani		
3	Hand Spinning Wheel	Maula	Jan Heet Yuwa Club
4	Medical Services, 2052	Kaskikot	Jan Heet Yuwa Club
5	Health Campaigns	Kaskikot	Jan Heet Yuwa Club
6.	Awareness Campaign on	Maula,	Pariya Yuwa Samaj
	health and sanitation	Kaskikot	
7.	Toilets Construction	Maula, Kaskikot	Pariyar Yuwa Samaj
8.	Saving and Credit Scheme	Kaskikot	Maula Aama Samooha
9.	Fund Raising Concert	Kaskikot, Pame	Jan Heet Yuwa Club, Pariyar Yuwa Samaj
			Maula Aama Samooha, Pame Aama Samooha
10	Staircase Construction	Kaskikot	Jan Heet Yuwa Club, Pariyar Yuwa Samaj
			Maula Aama Samooha
11,	Cleaning Campaign	Kaskikot	Jan Heet Yuwa Club, Pariyar Yuwa Samaj
			Maula Aama Samooha
12.	Saving and Credit Scheme	Dopare	Subha Srijanshil Aama Samooha
		Kaskikot	
13.	Cleaning Campaign	Dopare , Kaskikot - 5	Subha Srijanshil Aama Samooha
14	Toilet Construction	Dopare, Kaskikot - 5	Subha Srijanshil Aama Samooha
15	Campaign Against	Dopare, Kaskikot - 5	Subha Srijanshil Aama Samooha
in an	Gambling and Alcoholism		
16	Establishment of Library	Deuralee, Kaskikot – 2	Om Shanti Aama Samooha, Eligent Society, Korea
17	Monthly Cleaning Campaign	Deuralee, Kaskikot – 2	Om Shanti Aama Samooha
19	Catering Service	Pame	Pame Aama Samooha
20	Construction of School Road	Pame	Pame Aama Samooha
21	Cleaning Campaign	Pame	Pame Aama Samooha
22	Waste Collection	Pame	Pame Aama Samooha
23	Charity Motel Renovation	Pame	Pame Aama Samooha
24	Construction of Rest Place,	Pame	Pame Aama Samooha
	Chair and Table		
25	Fund Raising	Pame, Kaskikot	Phewa Youth Club
26	Construction of Staircase	Pame, Kaskikot	Phewa Youth Club
27	Drainage Construction for	Pame, Kaskikot	Phewa Youth Club
	Tap Wastewater		

IN THE STUDY AREA

· .			Annex - 6
8	Garbage Collection Container	Pame, Kaskikot	Phewa Youth Club
9	Street Lamp	Pame, Kaskikot	Phewa Youth Club
0	Control of Plastic Waste	Pame, Kaskikot	Phewa Youth Club
1	Cleaning Campaign	Deuralee	Nava Prabhat Baal Samooha
2	Saving and Credit Scheme	Dhikurpokhari Makaaree Danda	Pragateeshil Reen Tatha Bachat Samooha
3	Training on Child Health	Dhikurpokhari Makaaree Danda	Pragateeshil Reen Tatha Bachat Samooha
4	Toilet Construction	Dhikurpokhari Makaaree Danda	Pragateeshil Reen Tatha Bachat Samooha
5	Promotion of Improvised Stove	Dhikurpokhari Makaaree Danda	Pragateeshil Reen Tatha Bachat Samooha
6	Cleaning Campaign	Sarangkot, Bhakunde	Prasidha Yuwa Club
7	Road Renovation	arangkot Bhakunde ard No.4 - Bhanjyang harpaundee yanchwok and	Prasidha Yuwa Club
8	Toilet Construction	Pandelee Sampekat Bhakunda	
9	School Construction	Sarangkot Bhakunde	Prasidha Yuwa Club
		Sarangkot Bhakunde	Prasidha Yuwa Club Welfare of Himalayan Children
0 1	Health Post	Sarangkot Bhakunde	Prasidha Yuwa Club
2	Water Supply Training on Off-season Vegetable Production Farming	Sarangkot Bhakunde Sarangkot Bhakunde	Prasidha Yuwa Club Prasidha Yuwa Club
3	Organizing Women Groups	Makuree Danda Nau Danda Dhikurpokari	Machhapuchhre Development Organization
		Dopere, Maula Kaskikot	
4	Saving and Credit Groups	Makuree Danda Nau Danda	Machhapuchhre Development Organization
:-		Dhikurpokhari Dopere, Maula Kaskikot	
5	Training on Health	Makuree Danda Nau Danda Dhikumokhari	Machhapuchhre Development Organization
· · ·		Dhikurpokhari Dopere, Maula Kaskikot	

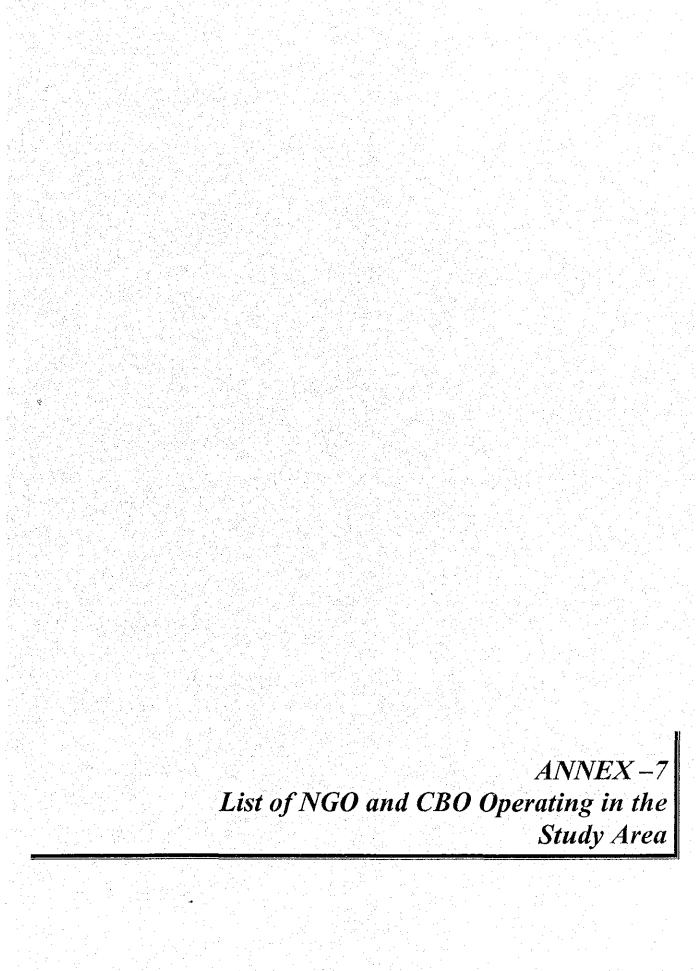
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46	Construction of Toilet	Makaree Danda	Machhapuchhre Development Organization
		Nau Danda	
1.7	Immund Clave	Makuree Danda	Machhapuchhre Development Organization
47	Improved Stove	Nau Danda	
		Dhikurpokhari	
		Dopere, Maula	
		Kaskikot	
48	Vegetable Production	Shera Chaur	SEDA
	through Farmer Groups	Dhikurpokhari	
49	Drop Irrigation Project	Shera Chaur	SEDA
		Dhikurpokhari	
50	Formation of Women	Dhikurpokhari	Mahila Bikash Shakha
	Groups		
51	Basic Training on	Bhakaaree Danda	Mahila Bikash Shakha
	Saving	Dhikurpokhari	
52	Buffalo Farming	Bhakaaree Danda	Mahila Bikash Shakha
· · ·		Dhikurpokhari	
53	Business Entrepreneur	Bhakaaree Danda	Mahila Bikash Shakha
		Dhikurpokhari	
53	Community Development	Dhikurpokhari	Dikhur Pokharee Samudaik Sanstha
	Income Generation		Mahila Bikash Shakha
54	Song contest on	Dhikurpokhari	Li Bird, Samajik Watabaran Mahila Samooha
	Bio-diversity		Pragateeshil Yuwa Club
55	Distribution of Vegetable	Maraiche	Li Bird
	Seed	Dhikurpokhari	
		Ward No. 7	
56	Training for Production	Maraiche	LiBird
e e e e e e e e e e e e e e e e e e e	of Mushroom.	Dhikurpokhari Ward No. 7	
	Construction of	Dhikurpokhari	Red Cross
57	Water Supply Facilities	Dhikaipokhan	Fund Board
58	Training on Health and	Dhikurpokhari	Red Cross
00 	Sanitation	Dhikarpokhan	Rural Water Supply and Sanitation Development Fund Board
59	Awareness Campaign on	Dhikurpokhari	Red Cross
55	Health and Sanitation		Rural Water Supply and Sanitation Development Fund Board
60	Awareness Campaign on	Dhikurpokhari	Red Cross
	Keeping Water Source		Rural Water Supply and Sanitation Development Fund Board
	Unpolluted		
61	Water Supply	Dhikurpokhari	Red Cross
			Rural Water Supply and Sanitation Development Fund Board
62	Irrigation Canal	Dharapani	Watershed Management and

		Dhikurpokhari	Soll Conservation Project, Watershed Management
	······································	Ward No.2	and Soil Conservation Dept./ JICA
63	Awareness Campaign on	Dharapani	Watershed Management and Soil Conservation Project
	Watershed Management	Dhikurpokhari	Watershed Management and Soil Conservation Dept. /
	and Soil Conservation	Ward No.2	JICA
64	Afforestation	Dharapani	Watershed Management and Soll Conservation Project
	Community Forestry	Dhikurpokhari	Watershed Management and Soil Conservation Dept. /
		Ward No.2	JICA share the second
65	Milk Collection, Selling,	Kaskikot, Sarangkot	Shree Guptkaalika Dugdha, Utpadak Bahooudeshya
· .	Animal Feed	Chapakot	Sahakaree
	Fund Raising and Investment	Kaskikot, Sarangkot	Shree Guptkaalika Dugdha, Utpadak Bahooudeshya
		Chapakot	Sahakaree
66	Veterinary Service through	Kaskikot, Sarangkot	Shree Guptkaalika Dugdha, Utpadak Bahooudeshya
	Veterinary Clinic of Pame	Chapakot,	Sahakaree
· .		Bhadaure Tamagee	
67	Hybrid Seed for Hybrid	Kaskikot, Sarangkot	Shree Guptkaalika Dugdha, Utpadak Bahooudeshya
	Animals Farming	Chapakot,	Sahakaree
		Bhadaure Tamagee	
68	Health Referral Service	Kaskikot, Sarangkot	Shree Guptkaalika Dugdha, Utpadak Bahooudeshya
		Chapakot	Sahakaree
		Bhadaure Tamagee	
69	Loan Assistance for	Kaskikot, Sarangkot	Shree Guptkaalika Dugdha, Utpadak Bahooudeshya
	Purchase of Cows	Chapakot	Sahakaree, Agriculture Development Bank and
	and Buffaloes	Bhadaure Tamagee	Commercial Bank
70	Animal Feed and	Kaskikot, Sarangkot	Shree Guptkaalika Dugdha, Utpadak Bahooudeshya
	Medicine	Chapakot	Sahakaree,
		Bhadaure Tamagee	
71	Healthy Animal Grazing	Kaskikot, Sarangkot	Shree Guptkaalika Dugdha, Utpadak Bahooudeshya
	and Pasture	Chapakot	Sahakaree
	Land Development	Bhadaure Tamagee	
72	Bee Farming	Sedi	Amrit Mauri-Palan Samooha, Pokhara Chamber of
	Honey-Comb	Sarangkot 7	Commerce and Industry, Department of Agriculture
	Natural Feeding to Bees	Ward no. 1 and 2,	
	Flower Plants Plantation	Bhadaure Tamangi	
	Bee Protection	Chapakot.	
	Production of Wax	Dhikur Pokhari	
73	Animal Husbandry	Kaskikot, Sarangkot	DDC, Commercial Banks, Veterinary Office
		Chapakot	Animal Health Office
74	Fisheries	PSM, Kaskikot	Fisheries Research Center
		Sarangkot, Chapakot	
75	Rope, Animal Tying Rope,	Kaskikot, Sarangkot	Household Practice
	Back-pack Holding Belt	Chapakot	

76	Bamboo Products	Kaskikot, Sarangkot	Private
		Chapakot	
77	Poultry Farming	Scattered	Mahila Bikash Sakha
	Hatchery and Feed		Agriculture Development Bank.
78	Handicrafts	Scattered	Private Practice
79	Mushroom Farming	Kudmi Danda	Li-Bird
		Bhadaure Tamagi	Agriculture Department Office
	•	Dhikurpokhari, Sarangkot	
80	Sewing and Knitting	Scattered	Private
81	Coffee Farming	Bamdi, Chapakot	Agriculture Services Sub-Center
		Kaskikot	
82	Ginger, Turmeric,	Dhikur Pokhari	Private
	Cinnamon	Thado Khola,	
		Dharapani,	
		Dhikurpokhari	
83	Amriso Farming	Dhikur Pokhari	Private
		Thado Khola	
		Dharapani	
		Dhikurpokhari	
84	Vegetable Seed	Ward 7 & 8	Agriculture Services Center
	Production	Bhadaure Tamagi	Seed Promotion Project
		Kudmi Danda	
		ward no. 4, Harpan	
		Chapakot - 7	
		Ainselchaur	
		Khorpakha.	
85	Horticulture	Pumdi Bhumdee	Private
00		Chapkot	Filvale
		Bhadaure Tamagee	
	Litarba Formina		
86	Herbs Farming	Scattered	
87	Environment Education	Pokhara Sub-	Pokhara Sub-Metropolis,
	and Capacity Building	Metropolis Area	EHDAG/HEMRA
88	Environmental	Pokhara Sub-	PSMC, HEMRA/EHDAG
	Improvements	Metropolis Area	
90	Slum Community	Pokhara Sub-	EHDAG
	Development Study	Metropolis	
91	Capacity Building Training	Pokhara Sub-	PSMC
		Metropolis	



List of Some of the NGOs and CBOs Operating in the Study Area

- 1. Amrit Mauri-Palan Samooha
- 2. Dikhur Pokharee Samudaik Sanstha
- 3. EHDAG
- 4. HEMRA
- 5. Indreni Club
- 6. Jan Heet Yuwa Club
- 7. Li Bird
- 8. Machhapuchhre Development Organization
- 9. Maula Aama Samooha
- 10. Nari Sewa Kendra
- 11. Nava Prabhat Baal Samooha
- 12. Om Shanti Aama Samooha
- 13. Pame Aama Samooha
- 14. Pardi Baidam Sarsafai Committee
- 15. Pardi Environment Committee
- 16. Pariyar Yuwa Samaj
- 17. Phewa Boat Association
- 18. Phewa Lake Conservation Committee
- 19. Phewa Lake Environment Conservation Committee Bhattarai Group
- 20. Phewa Trust
- 21. Phewa Youth Club
- 22. Pokhara Tourism Promotion Center
- 23. Pragateeshil Reen Tatha Bachat Samooha
- 24. Pragateeshil Yuwa Club
- 25. Prasidha Yuwa Club
- 26. Red Cross
- 27. Samajik Watabaran Mahila Samooha

28. SEDA

29. Shidhartha Club

30. Shree Guptkaalika Dugdha Utpadak Bahooudeshya Sahakaree

31. Srijana Club

32. Subha Srijanshil Aama Samooha

33. Tole Level Environmental Improvements Committees in Pokhara Sub-metropolis (174 numbers)

34. TOLI

35. Women Groups In Phewa Catchment Area (57 numbers)