

4.2.2.2. Exploratory Well and Existing Wells

Table 4.2.1  
DATA SUMMARY FOR EXPLORATORY AND OBSERVATION WELLS IN JHAPA DISTRICT

Well Name	Location	Coordinate		G. L. (meansl)	Depth (m)	Well Dia. (mm)	S.L. (mbs)	Yield (l/s)	D/B (m)	S.C. (l/s/m)	T (m <sup>2</sup> /d)	S		Screen Schedule (m-m)			
		Lat/Long	X/Y									(m)	to from	to from			
EX-1	Sunadhi	26-24-08.3	83.16	64.66	300	300/150	+1.46	50.2	27.59	1.82	1,430	30	246	269	273	282	
EX-2	Patharia	88-00-35.7	50.32		300	300/150	5.13	25.0	14.33	1.74	410	21	243	246	253	256	267
EX-2	Barchana	26-36-10.5	85.02	109.32	300	300/150	18.91	40.0	15.06	2.66	1,200	27	202	205	243	252	255
EX-2	Garwani	88-01-24.4	74.62		300	300/150											
EX-3	Dangebari	26-34-27.3	74.41	92.52	300	300/150											
EX-3	Dangebari	87-55-35.7	70.98		250	300/150	3.97	44.8	16.53	2.71	1,240	27	202	208	218	227	231
EX-4	Bhagdubba	26-27-38.8	74.77	75.04	250	300/150											
EX-4	Kalgarh	87-55-54.6	57.25		250	300/150	12.76	40.1	19.19	2.09	520	24	206	224	237	243	
EX-5	Sitachauk	26-28-07.6	90.09	87.66	250	300/150											
EX-5	Prithvinagar	88-04-20.5	58.48		250	300/150	3.08	29.0	17.16	1.69	730	27	214	226	226	241	
EX-6	Dandagan	26-27-23.2	84.00	76.30	250	300/150											
EX-6	Balubari	88-00-59.9	56.89		200	300/150	+1.22	40.0	29.23	1.37	390	21	140	143	158	167	170
EX-7	Hamanbيران	26-33-31.4	82.10	96.40	200	300/150											
EX-7	Halidbari	87-59-50.8	69.23		200	300/150	+8.55	50.2	24.10	2.08	650	21	167	173	178	193	
EX-8	Bhimnager	26-30-10.1	90.22	80.84	200	300/150											
EX-8	Prithvinagar	88-04-22.6	62.60		200	300/150	6.86	30.3	14.84	2.04	380	21	149	152	157	163	177
EX-9	Birtabazar	26-37-37.3	81.51	119.67	200	300/150											
EX-9	Anamuni	87-59-27.0	77.48		150	300/150	2.19	40.0	11.91	3.36	1,700	18	100	112	128	134	
EX-10	Balubathan	26-33-18.7	70.48	90.26	150	300/150											
EX-10	Sarnamati	87-53-26.8	68.65		150	300/150	+3.5	20.0	30.84	0.65	1,130	15	94	97	99	102	104
EX-11	Baltua	26-30-53.7	83.88	87.08	150	300/150											
EX-11	Jalthal	88-00-52.4	63.96		150	300/150	3.97	50.2	13.63	3.68	1,240	15	123	129	136	145	
EX-12	Gherabari	26-25-18.0	74.64	71.85	150	300/150											
EX-12	Gherabari	87-55-52.8	52.52		100	300/150	1.25	50.2	8.30	6.05	3,540	21	46	55	60	72	
EX-13	Dangabari	26-25-50.5	89.98	66.44	100	300/150											
EX-13	Pathamari	88-04-19.2	53.87		100	300/150	2.20	30.0	8.88	3.38	2,230	30	57	60	64	88	92
EX-14	Tulshibari	26-36-21.8	70.43	101.31	100	300/150											
EX-14	Surunga	87-53-22.1	74.76		100	300/150	1.78	34.7	11.25	3.08	710	12	39	42	63	66	88
EX-15	Laljhora	26-37-27.2	94.21	107.79	100	300/150											
EX-15	Jamirgarhi	88-06-26.8	77.36		300		+1.04	50.2	3.27		1,430	30	248	269	273	282	
OB-1	Sunadhi	26-24-08.3	83.16	64.57	300	100											
OB-1	Patharia	88-00-35.7	50.32		250		3.90	44.8	2.44		1,240	27	202	208	224	248	
OB-2	Bhagdubba	26-27-38.8	74.77	74.96	250												
OB-2	Rajgarh	87-55-57.7	57.25		200		+1.42	40.0	6.70		390	21	141	144	160	166	171
OB-3	Hanunbيران	26-33-31.4	82.16	96.75	200												
OB-3	Halidbari	87-59-50.8	69.23		150		2.25	40.0	1.63		1,700	18	100	112	130	136	
OB-4	Balubathan	26-33-18.7	70.48	91.00	150												
OB-4	Sarnamati	87-53-26.8	68.65		100		1.47	34.7	2.49		710	12	40	43	65	71	89
OB-5	Laljhora	26-37-27.2	94.21	108.12	100												
OB-5	Jamirgarhi	88-06-26.8	77.36		100												

Table 4.2.2

## INVENTORY OF EXISTING DEEP WELL IN JHAPA DISTRICT

No.	Location	Coordinate		G. L. (mnsrl)	Depth (m)	Well D. (mm)	S. L. (m)	SWL (mbg)	Yield (l/s)	D/d (m)	T (m <sup>2</sup> /d)	S. C. (l/s/m)
		Lat-N	Lon-E									
JP-1	H. T. Garden Damak	26-39-47.6 87-40-31.7	47.23 81.28	125.0	88.4	250/150	16.9	3.9	1.8	4.42	80	0.41
JP-2	Charali Army Camp	26-39-09.1 88-03-17.6	88.54 80.69	129.5	124.9	250/150	20.0	6.5	11.5	21.50	370	0.53
JP-3	Kankai Irr. Office	26-39-21.0 87-51-41.6	67.49 80.73	121.9	85.9	250/150	8.7	8.5	2.5	0.70	340	3.57
JP-4	Bhalu Gaon Paddy field	26-35-29.1 87-45-48.2	56.67 72.75	103.6	137.2	250/150	17.9	5.7	2.0	1.20	230	1.67
JP-5	Gwal Dubba pump house	26-30-40.8 87-43-46.9	52.85 63.00	83.8	137.2	250/150	12.5	5.9	41.7	1.80	1,000	23.17
JP-6	Bhawanipur Field	26-26-38.8 87-43-28.1	52.15 54.86	71.3	137.2	250/150	15.3	3.1	12.9	19.70	900	0.65
JP-7	Prakashpur Paddy field	26-35-15.5 88-04-34.2	90.73 72.87	104.5	148.4	250/150	18.3	F/F	5.3	17.50	100	0.30
JP-8	Maheshpur Paddy field	26-32-12.0 88-04-41.6	90.86 66.71	86.0	146.3	250/150	24.4	0.7 0.3	14.3 32.7	3.00 16.76	590 660	4.77 1.95
JP-9	Goldhap pump house	26-33-17.0 87-58-12.0	79.10 68.69	91.4	146.3	250/150	36.3	1.0 0.9	10.0 30.0	5.20 15.70	210 340	1.92 1.91
JP-10	Ghailadubba Paddy field	26-36-51.6 87-56-55.6	76.91 75.87	108.2	144.8	250/150	24.4	1.2	90.0	20.80	230	4.33
JP-11	Prithivinagar Enclosed	26-29-06.8 88-03-44.6	89.03 60.45	76.2	155.5	250/150	21.5	7.5	39.0	7.50	760	5.20
JP-12	Rajgadhat pump house	26-30-37.0 87-56-23.0	75.72 63.26	82.3	167.7	250/150	33.2	2.7 2.7	43.0 38.8	5.10 3.69	2,900 1,320	8.43 10.51
JP-13	Tanganduba pump house	26-28-53.8 87-51-49.5	67.39 59.65	79.2	158.5	250/150	25.5	1.2 2.7	41.0 36.7	16.80 11.83	1,530 2,150	2.44 3.10
JP-14	Damak (W. S. office)	26-40-11.2 87-42-21.4	50.57 82.13	128.0	75.1	350/200	24.1	1.0	25.0	3.00	540	8.33
JP-15	Sanischare in a house	26-41-13.0 87-59-55.6	82.49 84.75	149.4	73.1	350/200	33.5	2.2				
JP-16	Kakarbhitta Near school	26-38-37.1 88-9-14.7		121.9	159.7	350/200	67.0				240	
JP-17	Kohabara				107.1	250/150	30.0	6.0	40.0	8.70	1,170	4.60
JP-18	Bhareghare Paddy field	26-42-09.1 88-06-59.7		166.1								
WS-1	Chandragadhi W. S. in field	26-34-22.0 88-03-48.0	89.30 71.05	103.6	150.0	350/200	35.5	1.8	26.3	4.30	860	6.12
WS-2	Chandragadhi		91.71 70.08		150.0	350/200	38.5	+1.5	18.0	32.20	140	0.56
WS-3	Chandragadhi W. S. office	26-34-11.5 88-04-01.4	89.70 70.70	100.6	112.5	250/150	58.9	3.0	19.7	14.50		1.36
WS-4	Bhadrapur W. S. office	26-33-31.3 88-05-06.4	91.76 69.39	91.7	113.3	250/150	23.5	3.0	19.7	17.00		1.16
WS-5	Prithivinagar W. S. office	26-27-54.7 88-04-23.2			151.0	250/150		8.6	30.9	5.79	1,060	5.34
BH-1	Damak W. S. office	26-40-11.2 87-42-21.4	50.57 82.13	128.0	119.3			1.86	18.0	6.25	620	2.88
BH-4	Damak W. S. office	26-40-11.2 87-42-21.4	50.57 82.13	128.0	76.6			2.24	20.0	2.98	750	6.71
BH-5	Sanischare W. S. office	26-41-13.0 87-59-55.6	82.49 84.75	149.4	98.4	300/200		2.83	16.0	3.85	420	4.16
BH-7	Sanischare W. S. office	26-41-13.0 87-59-55.6	82.49 84.75	149.4	69.9	300/200		2.53	18.0	4.32	660	4.17
BH-6	Kakarbhitta River bed	26-38-37.6 88-09-44.2	100.22 79.82		63.0			+1.49	14.0	8.6	240	1.63
BH-8	Kakarbhitta River bed	26-38-37.6 88-09-44.2	100.22 79.82		64.1	300/200		+1.36	14.0	8.40	-	1.67

Remark: Tested data on January 1994 show in lower row

Table 4.2.3

## INVENTORY OF SHALLOW TUBE WELL IN JHAPA DISTRICT

No.	Location	Depth (m)	SWL (mbgs)	Q (l/s)	D/d (m)	T (m <sup>2</sup> /d)	S. C. (l/s/m)	Location		EL(m)
								Lat. -N	Lon. -E	
STW- 1	Prithvinagar	35.1						26:29:07.0	88:03:44.6	81
STW- 2	Maheshpur	21.3	0.5	7.5	7.5	330	1.00	26:31:40.7	88:05:15.2	81
STW- 3	Gherabari	29.9						26:25:26.2	87:56:32.2	66
STW- 4	Phulbari	16.8	2.3	15.0	4.6	1,200	3.28	26:33:32.2	87:55:32.7	94
STW- 5	Lakhanpur	15.2	2.6	8.7	6.0	500	1.46	26:38:51.7	87:43:02.6	121
STW- 6	Sitapuri	27.4	0.6			1,068		26:34:35.7	87:42:54.5	101
STW- 7	Kanaki	43.9	6.7	8.3	1.5	1,070	5.57	26:39:19.9	87:51:41.7	120
STW- 8	Gwaldubba	36.6	0.8	6.0	0.7	400	8.33	26:30:55.2	87:43:08.8	86
STW- 9	Hukkagachhi	35.1						26:27:23.4	87:43:14.2	73
STW-10	Keradhap	36.6						26:37:48.8	87:45:41.8	113
STW-11	Buttabari	38.1	3.0	20.0	0.6	1,000	32.79	26:38:41.3	88:01:09.1	128
STW-12	Satashi	34.8	0.6	4.0	0.4	580	9.76			113
STW-13	Bareghare	25.9						26:42:22.3	88:01:07.1	183
STW-14	Sangambasti	36.6	0.4	5.4	8.4	180	0.64	26:26:53.1	88:03:51.7	69
STW-15	Panchgachhi	35.1	1.6	8.0	5.6	810	1.42	26:33:16.1	87:48:52.8	86
STW-16	Ghailadubba	38.1	0.1	10.3	8.6	280	1.20	26:36:56.0	87:56:22.8	112
STW-17	Satigatta	32.0	1.7	3.0	6.3	210	0.48	26:37:49.3	88:08:21.9	121
STW-18	Gauriganj	27.4						26:28:13.7	87:43:10.0	75
STW-19	Goldhap-4	29.0	1.2	12.0	4.9	445	2.44	26:32:47.5	87:58:08.7	95
STW-20	Kechana	22.9						26:23:05.3	87:59:56.1	63
STW-21	Jalthal	18.6						26:30:42.1	88:00:16.7	84
PRW- 1	Dasaharatpur					527				
PRW- 2	Pathariya					453				
PRW- 3	Topgacchi-3					380				
PRW- 4	Gaurigung					909				
PRW- 5	Dharampur					483				
Average		30.3	1.7	9.0	4.6	601	5.70			

Remark: Q=Yield D/d=Drawdown T=Transmissivity  
 S. C.=Specific Capacity SWL=Static Water Level  
 Location=Located by Satellite System

Table 4.2.4

## INVENTORY OF INVESTIGATION WELLS IN MAHOTTARI DISTRICT

No	Location	Depth (m)		Well Dia. (mm)	H. Dep. (m)	SWL (mbsg)	Q (l/s)	D/d (m)	S. C. (l/s/m)	T (m <sup>2</sup> /d)	C. A (ha)	Use	S. L. (m)
		Drill	Cased										
M1	Jaleshwar	170.4	137.0	150	-	0.33	12.00	6.30	1.90	840	12	Iri	15.1
M2	Matihani	157.0	130.0	250/150	39	3.65	-	-	-	-	-	NU	18.3
M3	Exraiha	93.3	92.0	250/150	29	1.79	48.44	22.00	2.20	550	-	NU	16.5
M4	Siawakataiya	94.0	92.0	250/150	35	2.61	3.00	9.03	0.33	40	-	-	16.5
M5	Pokharvinda	109.3	108.0	250/150	33	+	3.00	14.28	0.21	10	-	-	23.2
M6	Raghumathpur	112.9	111.0	250/150	34	+	1.44	24.60	0.06	2	-	-	17.4
M7	Aurhi	152.4	151.5	250/150	34	5.73	20.00	17.37	1.15	1,140	20	Iri	27.6
M8	Hathilet	82.9	-	-	-	7.55	-	-	-	20	-	-	-
M9	Bhangha	137.8	137.0	250/150	36	3.65	27.78	20.61	1.35	1,690	28	Iri	21.0
M10	Matihani	138.0	128.2	250/150	36	18.00	-	-	-	-	-	NU	33.1
M11	Laxminiya	123.0	118.8	250/150	44	32.17	57.14	1.97	29.01	23,400	57	Iri	22.2
M12	Hathilet	107.9	108.8	250/150	52	+	25.80	3.43	7.52	570	26	Iri	22.6
M13	Sundarpur	150.0	112.5	250/150	29	+	8.00	24.10	0.33	50	10	NU	11.5
M14	Sripur	151.6	110.0	250/150	30	+8.25	18.90	4.55	4.15	1,320	29	Iri	18.0
M15	Bishamvarpur	115.9	104.0	250/150	27	+8.67	26.02	30.45	0.85	420	26	Iri	14.5
M16	Ratauli	159.0	100.5	250/150	30	1.64	11.00	27.82	0.40	220	-	NU	20.0
M17	Mahottary	135.0	131.0	250/150	31	0.32	28.58	22.93	1.25	300	28	Iri	18.0
M18	Bhargarsar	143.7	140.6	250/150	35	0.39	46.92	18.55	2.53	430	46	Iri	20.0
M19	Rannagar	150.0	146.6	250/150	44	22.94	50.00	3.14	15.92	17,800	50	Iri	24.0
M20	Rannagar	142.6	142.5	250/150	45	38.30	16.00	0.90	17.78	2,340	16	NU	22.0
M21	Bijalpura	100.0	91.6	250/150	31	7.51	54.45	2.27	23.99	4,750	54	Iri	27.0
M22	Bijalpura	100.0	-	150	-	-	-	-	-	10,400	-	Ob	27.0
M23	Sahorwa	167.7	-	-	-	-	-	-	-	-	-	-	-
M24	Dhanaura	181.0	182.0	250/150	39	-	22.00	-	-	-	22	Iri	17.2
M25	Paraul	182.0	182.0	250/150	39	+	20.00	24.80	0.81	250	20	NU	16.9
M26	Hathilet	153.0	153.0	250/150	56	40.51	21.00	1.21	17.43	-	21	Iri	27.2
M27	Bhargarsar	141.0	-	50	-	1.47	35.23	4.20	8.39	610	-	-	-
M28	Bhargarsar	-	-	50	-	0.51	35.23	3.57	9.87	580	-	-	-
M29	Belgachi	121.0	121.2	250/150	62	33.65	34.35	1.42	24.19	1,890	34	Iri	18.0
M30	Kisannagar	122.0	122.0	250/150	50	53.00	-	-	-	-	-	NU	22.2
M31	Pashupatinagar	163.0	163.0	350/150	44	16.93	52.00	7.43	7.00	2,800	52	Iri	34.2
M32	Bharatpur	113.0	113.0	350/200	34	10.31	18.00	18.16	0.99	1,100	18	Iri	33.0
M33	Laxminiya	152.4	152.0	250/150	58	28.88	28.89	1.66	17.40	8,800	29	Iri	25.2
M34	Bijalpura	153.0	153.0	250/150	45	17.10	41.94	2.70	15.53	2,160	42	Iri	27.8
M35	Phulhatta	213.0	213.0	250/150	28	+0.60	38.00	7.55	5.03	400	38	Iri	27.8
M36	Pipra	222.0	222.0	250/150	34	+	25.00	-	-	-	25	Iri	27.6
M37	Gausala	186.4	183.5	250/150	36	4.69	40.00	6.47	6.18	2,300	40	Iri	32.9
M38	Hattisharwa	145.5	145.5	250/150	34	+	14.00	32.46	0.43	120	14	NU	21.5
M39	Ekrahiya	220.0	208.5	250/150	31	-	15.00	-	-	-	15	Iri	16.3
M40	Dhirapur	205.0	199.5	250/150	29	+	26.00	6.30	4.13	190	15	Iri	17.1
M41	Laxminiya	138.6	119.5	250/150	49	29.14	37.00	3.13	11.84	-	17	Iri	17.1
M42	Bijalpura	95.0	90.3	250/150	47	19.37	30.00	1.66	18.08	-	30	Iri	22.2
M43	Manarakatti	213.0	-	-	-	-	-	-	-	-	-	-	-
M44	Khuttapiprari	187.0	184.1	250/150	32	+	14.50	-	-	-	15	Iri	16.1
M45	Kisannagar	138.0	118.5	250/150	52	41.50	72.00	1.84	39.13	4,150	72	NU	16.6

Remark: D/d: Drawdown      Ob: Observation well      Q : Discharge  
 F/F: Flowing well      UC: Uncased      UNSUC: Unsuccess well  
 Iri: Irrigation      NU: Not used      S. C. : Specific capacity  
 SWL: Static water level      SL: Screen length  
 C. A: Command Area      H: Housing

Table 4.2.5

## WELL INVENTORY FOR UNDP SHALLOW TUBE WELLS IN MAHOTTARI DISTRICT

Well Dia.=100mm

No	Location	Depth (m)	W. Dep (m)	Screen		SWL (mbgs)	Yield (l/s)	D/d (m)	S. C. (l/s/m)	Y. F. (l/s)	S. L. (m)	T (sqm/d)	Location		
				Up.	Low.								X	Y	EL(m)
STW 1	Mathimani	40.0	40.0	12.0	17.4	3.10	6.0	4.00	1.50	0.28	5.4	256	704	226	60
STW 2	Marwahi	40.0	40.0										314	434	62
STW 3	Jaleswar	47.0	47.0	40.5	44.1								590	400	62
STW 4	Dhirapur	40.0	40.0	27.5	32.9	3.99	4.0	4.37	0.92	0.17	5.4	278	782	344	61
STW 5	Siswakataiya	40.0	40.0										288	682	67
STW 6	Harigorgamma	40.0	40.0	16.8	25.0	3.04	2.2	4.60	0.48	0.06	8.2	153	582	744	73
STW 7	Ratauli	40.0	40.0	19.6	27.9	2.74	5.7	1.74	3.28	0.39	8.3	140	862	708	71
STW 8	Pokharbhinda	40.0	40.0	17.7	20.4								298	958	78
STW 9	Saranchia	40.0	40.0	13.0	18.6	3.00	3.0	5.24	0.57	0.10	5.6	314	652	946	82
STW 10	Madhepura	40.0	40.0	10.8	14.4	1.45	5.0	6.45	0.78	0.22	3.6	328	850	916	82
STW 11	Gobarhia	44.0	44.0										210	1282	91
STW 12	Kanchanpur	40.0	40.0	33.0	38.6	2.65	3.0	5.77	0.52	0.09	5.6	265	570	1134	87
STW 13	Majra	15.3											814	1212	91
STW 14	Sundarpur	21.4	21.4	10.6	14.3	2.93	2.0	4.83	0.41	0.11	3.7	135	330	1474	101
STW 15	Nigaul	38.1	38.1	10.7	18.0	1.55	1.7	4.25	0.40	0.05	7.3	131	474	1500	108

Remark: W. D.=Well Depth D/d=Drawdown S. C.=Specific capacity  
Y. F. :Yield factor in l/s/m/m T:Transmissivity

Table 4.2.6

## WELL INVENTORY OF SHALLOW TUBE WELLS IN JADP

No	Location	W. D. (m)	Dia. (mm)	Screen(m)		SWL (mbgs)	D/d (m)	Yield (l/s)	S. C. (l/s/m)	T (sqm/d)	S. L. (m)	Y. F. (l/s)
				Up.	Lo.							
1	Dhanusha	20	100	10	18	2.36	2.37	5.80	2.44	256	8	0.31
2	Kshanpur	21	100	14	20	3.02	3.12	6.00	1.92	198	6	0.32
5	Bhtahipatenva	28	100	6	26	2.30	1.69	12.25	7.24	740	20	0.36
6	Bashinapur	39	100	8	24	2.70	2.88	10.00	3.47	448	16	0.22
7	Shapi	26	75	11	22	1.51	0.41	7.00	17.00	1760	11	1.55
	Laxipur											
	Mahottari											
11	Bijalpura	21	100	7	20	3.40	2.78	7.00	2.52	270	13	0.19
14	Barauta	21	100	9	20	1.10	4.45	6.00	1.35	143	11	0.12
16	Gosbara	28	100	4	22	3.90	1.74	10.00	5.74	612	18	0.32
19	Galdahabhctpur	52	100	32	36	0.33	8.39	4.40	0.52	54	4	0.04
				42	50						8	
	Sarlahi											
23	Harpurwa	20	100	8	13	1.94	6.06	4.00	0.66	67	5	0.09
				16	18						2	
24	Netraganja	14	100	8	13	2.44	2.40	6.00	2.50	255	5	0.50
25	Lakshmipur	19	100	8	12	2.00	4.29	6.00	1.40	144	4	0.16
				14	19						5	
30	Musaili	69	100	60	68	1.80	2.46	6.00	2.40	256	8	0.30

Remark: W. D.=Well Depth D/d=Drawdown S. C.=Specific capacity  
Dia=Well diameter T=Transmissivity S. L.=Screen length

Table 4.2.7  
INVENTORY OF DEEP TUBE WELL IN BANKE DISTRICT

Well No	Location	Depth (m)		SWL (mbs)	Q (l/s)	D/d (m)	S. C. (l/s/m)	T (sqm/d)	S. L. (m)	Location	
		Drill	Caced							Lat. -N	Log. -E
B-1/1	Piprahawa	77.2	45.4	2.13	4.00	0.97	4.12	470	8.2	27:58:51.4	81:43:05.0
/2	Dasapurwa	15.2	15.2	1.17	3.60	0.36	10.00	3,050	2.5	28:00:55.5	81:43:54.2
/3	"	62.5								28:00:55.5	81:43:54.2
/4	Halbaldoli	139.1	66.4	8.53	3.34	8.53	0.39	350	1.1	28:02:13.5	81:41:57.7
/5	Kandi	217.5	122.0	10.36	3.53	0.88	4.01	580	5.7	28:04:28.6	81:42:32.5
/6	"	125.4	121.6	10.36	16.70	11	1.52	620	5.3	28:04:28.6	81:42:32.5
/7	Manda	207.7	79.9	21.03	2.20	0.71	3.10	330	6.1	28:06:59.2	81:44:52.7
/8	Udain	184.5	71.3	+10.60	15.75			230	4.3	28:10:27.2	81:45:57.7
2/1	Jamunaha	305.9	134.7	13.70	2.52	0.36	7.00	1,640	7.4	28:01:15.6	81:36:16.4
/2	Mahendranagar	140.3	51.5	4.50				400		28:01:32.5	81:37:38.2
/3	"	50.6	50.0	3.40	17.01	12.19	1.40	260	5.5	28:01:32.5	81:37:38.2
/4	Nepalganj	33.8	13.7	14.10						28:03:04.2	81:37:28.2
/5	Nepalganj	366.0	366.0	10.98	35.30	18.30	1.90		45.0	28:03:04.2	81:37:28.2
/6	Karkando	301.6	108.8	14.30	2.26	4.27	0.53	100	7.0	28:04:35.1	81:38:24.2
/7	Ranjha	244.9	117.6	14.30						28:06:04.8	81:39:23.6
/8	"	120.8	117.6	14.30						28:06:04.8	81:39:23.6
/9	Army Camp	150.1	120.4	14.30	0.22	1.37	0.16	150	1.5	28:05:43.4	81:40:30.7
/10	Haldarpurwa	230.6	217.3	5.50	4.09					28:08:59.4	81:40:14.0
/11	Kohalpurwa	457.5	222.5	2.40	0.63	14.32	0.04	10	5.7	28:11:40.5	81:41:24.9
/12	Thukali	216.9	130.0	+6.70	4.00			330	3.6	28:14:23.8	81:42:02.9
3/1	Sainik Gaon	305.0	55.5	8.20	2.50	1.67	1.50	220	8.8	28:04:14.9	81:32:17.5
/2	"	55.8	53.5	8.20				230		28:04:14.9	81:32:17.5
/3	Odrapur	457.5	69.2	8.20	2.33	17.37	0.13	30	6.2	28:07:32.4	81:32:27.3
/4	Agri-Farm	305.0	39.3	5.50	2.77	13.41	0.21	20	5.8	28:06:53.1	81:35:29.6
/5	"	132.7	129.2	10.30	20.05	6.77	2.96		22.0	28:06:53.1	81:35:29.6
/6	"	122.6	120.4	10.30				450		28:06:53.1	81:35:29.6
/7	Dahawa	305.0	103.3							28:10:36.7	81:33:55.9
3/8	Madaha	305.0	75.6	+0.50	3.34	4.26	0.78		14.6	28:15:10.7	81:32:48.2
/9	"	76.3	74.7	+0.51				330	3.4	28:15:10.7	81:32:48.2
/10	Anohia	217.5	159.1	5.18	3.34	1.82	1.84	80	5.5		
4/1	Kantapur	305.0	133.5	10.05	2.96	1.22	2.43	510	14.6	28:10:04.5	81:26:34.9
/2	Dauraha	217.5	127.4	14.62	2.77	3.35	0.83	180	9.7	28:14:10.2	81:27:10.1
/3	Machhagarh	206.8	204.8	17.67	0.31				11.6	28:16:54.9	81:28:02.7
/4	Dhakela	369.1	45.7	7.31				680	6.1	28:20:48.1	81:28:20.6
/5	"	46.4	44.5	7.31	22.68	6.70	3.39	630	6.1	28:20:48.1	81:28:20.6
5/1	Indrapur	157.4	131.7	6.40	2.96	1.52	1.95	1,140	4.8	28:11:34.3	81:22:14.7
/2	Belbhar	149.5	89.9	7.61	2.96	2.07	1.43	250	9.2	28:15:41.7	81:22:57.7
/3	"	100.7	75.3	7.31				400	4.9	28:15:41.7	81:22:57.7
/4	"	90.6	76.5	7.31	19.53	11.58	1.69	390	4.9	28:15:41.7	81:22:57.7
/5	Jabdahawa	93.6	87.2	0.57	2.96	1.82	1.63	350	3.0	28:22:15.1	81:22:15.1
/6	Bechahiya	31.7	31.1	9.75					7.1	28:21:33.4	81:22:17.8
6/1	Taratal	86.9	86.9	14.62	2.77	0.45	6.16	1,250	5.5		
/2	"	339.5	86.9	3.35	3.15				6.4		
/3	Belwa	86.9	86.9	14.93	2.39	0.30	7.97	2,058	5.2		
/4	Banbirpur	63.1	62.5	9.84					4.6		
/5	Bhurkia	101.0	79.5	6.40	2.96	0.60	4.93	870	9.1		
	Average	182.1	100.0	7.90	6.60	5.29	2.64	563	7.8		

Remark: SWL=Static Water Level Q=Discharge D/d=Drawdown S. C.=Specific Capacity  
T=Transmissivity S. L.=Screen Length Location=Located by Satellite System

Table 4.2.8  
INVENTORY OF SHALLOW TUBE WELLS IN BANKE/BARDIYA DISTRICT

No	Location	Depth (m)	W. Dep (m)	Screen		SWL (mbgs)	Yield (l/s)	D/d (m)	S. C. (l/s/m)	T (sqm/d)	S. L. (m)	Location	
				Up.	Low.							Lat. -N	Lon. -E
BK 1	Dhatuwa	44.5	15.3	9.5	15.0	4.13	2.0				5.5	28:11:43.7	81:42:44.5
BK 2	Jabdhawa	53.0	15.3	9.5	15.0	4.90	12.0	2.09	5.74	938	5.5		
BK 3	punktuwa	53.0	47.0	41.0	46.5	+0.45	1.0				5.5	28:12:26.6	81:37:54.7
BK 4	Channawa	50.0	27.8	22.0	27.5	+	1.0				5.5	28:11:14.5	81:37:50.5
BK 5	Thapawa	42.0	33.0	27.1	32.5	+	0.5				5.4	28:11:31.7	81:34:32.5
BK 6	Piprahwa	49.0	8.1	5.0	7.7	2.55					2.7	28:07:51.5	81:39:49.1
BK 7	Bhunjai	51.0	8.1	5.0	7.7	1.80					2.7	28:05:37.3	81:38:47.3
BK 8	Birta	12.0	10.1	5.2	10.5	2.85					5.3	28:02:53.7	81:39:33.8
BK 9	Sikhaupurwa	45.0	11.1	5.4	10.9	1.80	5.0	2.77	1.81	329	5.5		
BK 10	Kharaicha	14.0	13.8	10.7	13.5	1.35	24.0	2.40	10.00		2.8	28:59:15.4	81:42:44.5
BK 11	Jaishpur	48.0	22.0	16.2	21.7	2.00	5.0				5.5	28:01:39.7	81:36:25.5
BK 12	Bhartha	42.0	11.0	8.2	10.9	2.30	15.0	4.04	3.71	1029	2.7	28:00:10.2	81:45:35.2
BK 13	Materiya	45.0	13.6	7.7	13.2	1.40	15.0	4.51	3.33	1035	5.5	28:55:24.3	81:47:53.5
BK 14	Narainapur	54.0	23.5	17.5	23.1	2.20	7.0				5.6		
BK 15	Kathkuiya	45.0	15.1	12.0	14.8	3.50					2.8		
BK 16	Rajgarhwa	45.0	14.6	11.5	14.3	3.50					2.8		
BK 17	D-gaon	45.0	8.8	5.8	8.4	2.35					2.6	28:07:51.1	81:35:21.8
BK 18	kalhansgaon	45.0	8.8	5.6	8.4	1.60					2.8	28:08:46.8	81:33:06.6
BK 19	Ganghat	45.0	17.3	8.5	16.9	3.35	8.0	4.64	1.72		8.4	28:06:40.1	81:31:19.4
BK 20	Mahadevpuri	65.0	62.5	55.2	60.7	+					5.5	28:11:43.9	81:45:36.6
BK 21	Balapur	47.0	10.3	6.5	10.5	4.45					4	28:08:31.2	81:48:00.3
BK 22	Kachanapur	42.0	39.2	17.5	23.3	7.20	12.0	1.79	6.70	798	5.8	28:03:42.1	81:52:53.7
BK 23	Binauna	17.0	17.2	10.3	16.8	3.20	20.0				5.5		
BD 1	Betani	40.0	38.3	32.0	38.0						6.0		
BD 2	bakharikhurd	50.0	11.3	5.6	11.0	2.45					5.4	28:14:16.7	81:32:44.7
BD 3	Mainapokhar-	45.0	17.6	11.8	17.3	7.00	9.0	6.06	1.49	250	5.5	28:11:24.2	81:28:28.4
BD 4	Bangai	42.0	11.3	5.0	11.0	7.70					6.0		
BD 5	Bhaisahi	45.0	14.6	8.7	14.2	3.65					5.5	28:12:51.6	81:23:20.9
BD 6	Rain nagara	45.0	17.4	8.8	17.1	3.50					8.3		
BD 7	Magara gadhi	6.0	6.1	3.0	6.0	1.68					3.0	28:18:43.8	81:22:53.3
BD 8	Auri	12.0	12.3	8.7	12.0	3.55					3.3	28:21:04.8	81:25:51.5
BD 9	Khairapur	45.0	11.5	5.7	11.2	1.80	10.0	4.20	2.38		5.5		
BD 10	Padnaha	0.0	14.3	8.8	14.3	1.38	17.0	7.07	2.40	550	5.5		
BD 11	Rampur	10.0	10.3	6.4	10.0		16.0	3.65	4.38	600	3.6	28:19:41.4	81:19:51.0
BD 12	Taratal	48.0	38.9	28.0	38.5	11.60					10.5		
BD 13	Madhuban	47.0	31.4	20.0	31.0	11.65					11.0		
BD 14	Bagnaha	6.0	6.3	3.2	6.0	1.03					2.8		
BD 15	Bhuri gaon	8.0	8.2	5.2	7.9	0.90					2.7		
BD 16	Patharbojhi	6.0	6.5	4.0	6.0	2.96					2.0		
BD 17	Kaligauri	13.0	12.8	9.2	12.2	5.75					3.0		
BD 18	Thakur dwara	20.0	18.8	13.0	18.5	3.10					5.5		
	Average	36.3	18.1	12.9	17.9	3.49	10.0	3.93	3.97	691	4.9		

Remark W. Depth=Well Depth D/d=Drawdown S. C.=Specific capacity T=Transmissivity  
S. L.=Screen Length Location=Located by Satellite System

EXPLORATORY WELL LOG

Well No: EX-1 Location: Sunadih Patariya  
 Site El: 64.66(m) Coordinate: N 26-24-08.3 E 88-00-35.7  
 Well Depth: 300(m) Well Dia: 300/150 (mm) Drill Dia: 445/311 (mm)  
 S.W.L. : +1.46(m) Yield : 50.2 (l/s) Max.D/d : 27.59 (m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log
3.0		Top Soil, 3.2ft. brown		
7.0		Clay, brown-gray		
12.0		Sand, medium, gray		
17.0		Clay, gray		
38.0		Sand, medium to coarse partly very fine sand partly gravelly		
45.0		Clay, dark gray sandy		
50.0		Sand and Gravel gray, fine gravel partly sand		
58.0		Clay, sandy, dark gray		
64.0		Sand and Gravel, gray		
72.0		Clay, dark gray		
100.0		Sand and Gravel gravel rich, yellowish brown, partly sand layers		
118.0		Coarse Sand, gray		
121.0		Clay, dark gray		
124.0		Coarse Sand, very coarse with small gravel		
136.0		Clay, dark brown		
145.0		Sand and Gravel partly fine sand		
160.0		Clay, dark gray		
163.0		Sand and Gravel		
166.0		Clay, dark gray		
172.0		Sand and Gravel		
176.0		Clay, dark gray		
178.0		Sand and Gravel		
187.0		Clay, dark brown		
195.0		Sand with clay		
200.0		Sand and Gravel		
216.0		Sand and Gravel, gray, partly fine sand		
220.0		Sand, medium to coarse		
223.0		Clay, gray		
250.0		Coarse Sand with fine gravel, partly sand & gravel		
269.0		Sandy Clay, gray		
272.0		Coarse Sand, gray, include fine gravel partly fine sand		
300.0				



# EXPLORATORY WELL LOG

Well No: EX-2 Location: Garamuni  
 Site El: 109.32(m) Coordinate: N 26-36-10.5 E 88-01-24.4  
 Well Depth: 300(m) Well Dia: 300/150 (mm) Drill Dia: 445/311 (mm)  
 S.W.L. : 5.13(m) Yield : 25.0(l/s) Max. D/d : 14.33(m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				( $\Omega m$ )	(cps) $\gamma$
10		5-10 mm granitic rock Sand & gravel			
19		clay, bl, sticky, peaty 10-12.5m			
33		Sand & gravel			
37		silt			
50		m-c. sand			
58		silt 51-52m			
64		Sand & gravel			
69		Silt, dark grey			
74		Sand & gravel			
80		Clay			
85		c. sand			
89		clay			
98		Sand & gravel			
100		Silt, sandy			
105		m-c. sand			
107		clay, dark grey			
118		Sand, c			
121		clay, dark grey			
126		silty 135-137m			
150		Sand & gravel			
166		sandy thin layer			
181		Clay, silty, dark brn			
185		c. sand w/ pebbles			
191		Clay			
197		C. Sand			
200		Clay			
222		c. sand			
224		clay			
228		m-c. sand /w gravel			
230		Clay			
233		C. Sand			
241		Clay	243		
245		C. Sand w/ gravel	244		
250		Clay	253		
252		c. sand	254		
254		clay, bl, peaty	256		
256		Sand	261		
260		clay	267		
268		Sand & gravel	277		
276		clay, dark grey	283		
283		C. Sand	290		
289		clay, dark grey	293		
293		c. sand			
300		clay, dark, grey			

EXPLORATORY WELL LOG

Well No: EX-3 Location: Dangebari  
 Site El: 96.52(m) Coordinate: N26-34-27.3 E 87-55-35.7  
 Well Depth: 300(m) Well Dia: 300/150 (mm) Drill Dia: 445/311 (mm)  
 S.W.L. : 18.91(m) Yield : 40.0(l/s) Max. D/d : 15.06 (m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				( $\Omega$ )	(cps) $\delta$
6		Sand, Top soil			
20		Sand & gravel			
30		clay, bl, reaty			
49		Sand & gravel			
53		clay			
67		sand & gravel			
72		Clay			
85		Sand & gravel			
89		clay			
92		C. Sand			
102		sandy thin layers			
104		clay			
108		sand			
117		clay			
124		Sand & gravel			
131		Clay			
140		Sand & gravel			
147		clay			
149		sand			
158		clay			
172		silty thin layer			
180		Sand w/ gravel			
182		Clay w/ gravel			
182		sand			
182		sandy thin layer			
200		Clay w/ gravel			
207		C. Sand	207		
211		clay w/ gravel			
213		C. Sand			
233		Clay w/ gravel			
236		C. Sand			
237		clay			
242		C. Sand			
244		Clay			
250		Sand & gravel			
254		clay			
257		C. Sand			
263		clay			
273		C. sand w/ gravel			
275		clay			
278		C. Sand			
285		Clay			
291		C. sand w/ gravel			
296		clay			
300		Sand & gravel			

EXPLORATORY WELL LOG

Well No: EX-4 Location: Rajgarh  
 Site El: 75.04(m) Coordinate: N 26° 27' 39.8" E 87° 55' 54.6"  
 Well Depth: 250 (m) Well Dia: 300 / 150 (mm) Drill Dia: 445 / 311 (mm)  
 S.W.L. : 3.97(m) Yield : 44.8 (l/s) Max. D/d : 16.53 (m)

Depth (m)	Geolog. Log	Lithology	Sc'n SWL	Geophysical Log	
				SP	GR
3.0		Top Soil, brown			
8.0		Sand, upper fine, lower coarse			
12.0		Sand and Gravel, brown			
22.0		Clay with sand, gray			
28.0		Sand Gravel, gray-brown			
32.0		Clay with sand, gray			
34.0		Sand Gravel			
40.0		Sandy Clay, dark gray			
42.0		Sand Gravel			
48.0		Clay with sand, gray			
50		Sand Gravel, upper much sand			
53.0		Clay, gray			
56.0		Sand Gravel, gray			
64.0		Clay, gray			
70.0		Sand Gravel, gravel rich, $\text{finer} > 20\%$			
83.0		Coarse Sand			
86.0		Sand Gravel, gravel rich			
96.0		Clay with fine gravel, dark gray			
100		Sand Gravel, partly gravel rich			
117.0		Clay, dark gray			
120.0		Coarse Sand with gravel, gray-brown			
134.0		Clay, dark gray			
137.0		Sand Gravel			
147.0		Clay			
150		Sand Gravel, fine gravel, partly fine sand			
173.0		Clay			
177.0		Sand Gravel			
182.0		Clay, dark brown, partly includes gravel			
193.0		Sand with fine gravel			
197.0		Clay			
200		Clay, Coarse Sand, gray	202		
208.0		Clay, dark gray	208		
217.0		Sand Gravel, gravel fine	218		
228.0		Clay, dark gray	227		
231.0		Sand Gravel, gravel fine	231		
247.0		Clay, dark gray	244		
250	(255.0)				

# EXPLORATORY WELL LOG

Well No: EX-5 Location: Sitachauk  
 Site El: 87.66(m) Coordinate: N 26-28-07.6 E 88-04-20.5  
 Well Depth: 250(m) Well Dia: 300/150 (mm) Drill Dia: 450/318 (mm)  
 S.W.L. : 12.76(m) Yield : 40.1(l/s) Max. D/d : 19.19(m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				Gamma	Resistivity
7.0		Top soil, silty clay.			
9.0		Coarse Sand.			
12.0		Clay			
18.0		Sand Gravel			
22.0		Sand with clay			
25.0		Clay.			
33.0		Sand and Gravel			
36.0		Clay with gravel			
42.0		Gravel with clay			
46.0		Sand and Gravel			
48.0		Clay.			
50					
61.0		Sand and Gravel partly clayey			
66.0		Coarse Sand.			
73.0		Sandy Clay.			
81.0		Fine Sand.			
87.0		Clay			
92.0		Medium Sand			
93.0		Sandy Clay			
98.0		Medium Sand			
100					
105.0		Sandy Clay			
		Sand medium to fine.			
123.0					
		Clay with gravel			
135.0					
142.0		Clayey Sand			
146.0		Sandy Clay			
150					
		Sand Gravel with Clay.			
157.0					
159.0		Clay			
		Clayey Sand-Gravel			
170.0					
183.0		Clay			
		Sand and Gravel			
200					
		Sand and Gravel	206		
224.0					
227.0		Clay	224		
233.0		Clayey Sand-Gravel			
236.0		Clay			
		Sand and Gravel	237		
246.0					
250		Clayey Sand-Gravel	243		

# EXPLORATORY WELL LOG

Well No: EX-6 Location: Dandageum  
 Site El: 76.30(m) Coordinate: N26-27-23.2 E88-00-59.9  
 Well Depth: 250(m) Well Dia: 300/150 (mm) Drill Dia:       /       (mm)  
 S.W.L. : 3.08(m) Yield : 29.0 (l/s) Max. D/d : 17.16 (m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				γ <sub>g</sub>	V <sub>sp</sub>
		Top soil			
9		medium sand			
17		coarse sand w/pebble			
18		clay, dark grey			
17		coarse sand			
31		clay, grey			
39		sand & gravel			
44		clay, silty			
50		53 sand & gravel			
		65 clay			
		73 sand & gravel			
		75 clayey sand			
		86 sand & gravel			
		90 clayey sand			
100		104 sand & gravel			
		110 clay, dark grey			
		116 sand & gravel			
		120 clay			
		123 coarse sand			
		127 clay			
		134 sand & gravel			
150		154 clay			
		157 medium sand			
		162 clay			
		168 coarse sand w/gravel			
		172 clay			
		175 coarse sand			
		178 clay			
		180 coarse sand			
		186 clay, sticky, dark grey, silty			
		195 sand & gravel			
200		197 clay, sticky, dark grey			
		210 sand & gravel			
		213 clay			
		228 sand & gravel	226		
		236 coarse sand	226		
		246 sand & gravel	124		
250		clay			

## EXPLORATORY WELL LOG

Well No: EX-7      Location: Haldibari  
 Site El: 96.40(m)      Coordinate: N 26-33-31.4      E 87-59-50.8  
 Well Depth: 200(m)      Well Dia: 300/150 (mm)      Drill Dia: 445/311 (mm)  
 S.W.L. : +1.22(m)      Yield : 40.0(l/s)      Max. D/d : 29.23 (m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log
4		Top soil		
7		sand		
24		clay		
27		Silty sand		
33		clay		
37		Sand & gravel		
41		clay		
48		sand & gravel		
50		clay		
51				
61		Sand & gravel		
71		clay		
75		C. Sand w/ gravel		
79		clay		
91		sand & gravel		
93		clay		
96		C. Sand		
100				
123		clay w/ sand & gravel		
127		C. Sand		
130		clay		
132		Silt		
140		clay	140	
143		Sand	143	
149		clay		
150		Sand		
152				
158		clay	158	
168		Sand & gravel	168	
170		clay	170	
178		sand & gravel	178	
183		clay	183	
187		Sand	187	
200		clay w/ gravel	196	

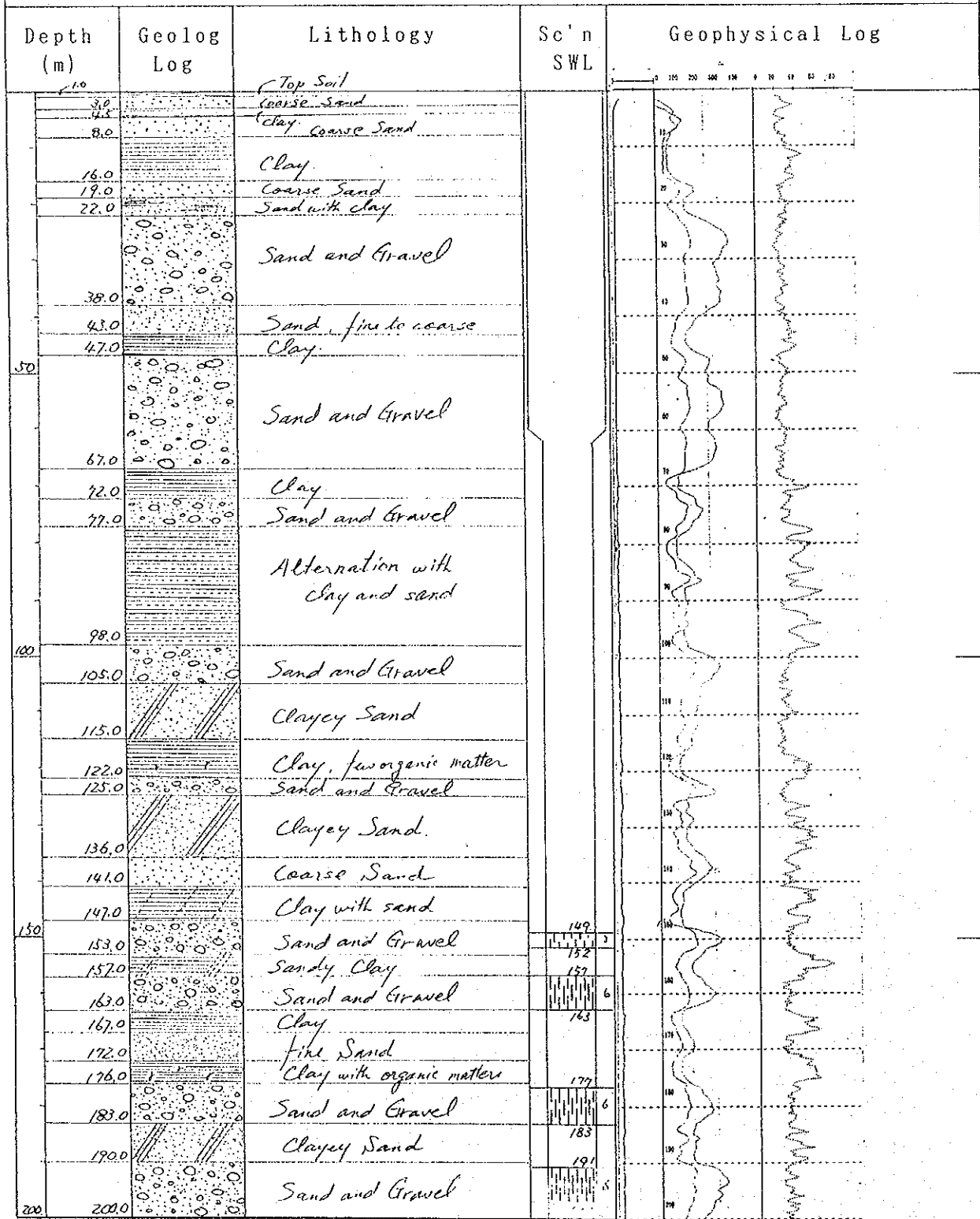
# EXPLORATORY WELL LOG

Well No: EX-8 Location: Bhimnagar  
 Site El: 80.84(m) Coordinate: N 26-30-10.1 E 88-04-22.6  
 Well Depth: 200(m) Well Dia: 300 / 150 (mm) Drill Dia: 445 / 311 (mm)  
 S.W.L. : +8.55(m) Yield : 50.2 (l/s) Max. D/d : 24.10 (m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log
1.0		Top Soil, silty clay, brown		
8.0		Sand, fine to coarse, brown		
12.0		Clay, dark gray		
15.0		Sand, fine, gray		
18.0		Clay, dark gray		
24.0		Sand, medium, gray		
27.0		Clay, gray		
33.0		Sand, fine to medium, gray		
43.0		Sand and Gravel, gray		
50		Clay, dark gray		
56.0		Gravel, pale gray		
62.0		Clay, gray		
64.0		Sand and Gravel, gray		
74.0		Sandy Clay, gray		
78.0		Clay, dark gray sticky		
91.0		Sand, coarse		
94.5		Clay, gray		
97.5		Sand and Gravel, gray		
104.0		Clay, dark gray		
109.0		Sand, coarse, gray		
113.0		Clay, dark gray		
117.0		Sand and Gravel partly sand, gray		
128.0		Clay, dark gray		
136.0		Sand and Gravel		
134.0		Clayey Sand, gray		
141.0		Clay, dark gray		
147.0		Sand, medium to coarse		
150		Clay, dark gray		
153.0		Coarse Sand with gravel		
162.0		Clayey Sand, gray		
172.0		Sand and Gravel partly sand	167	
174.0		Clay, dark gray	172	
173.5		Sand and Gravel partly sand	178	
187.0		Clay, dark gray	193	
200		Coarse Sand with gravel		

## EXPLORATORY WELL LOG

Well No: EX-9      Location: Birtabazar, Anarmuni  
 Site El: 119.67(m)      Coordinate: N 26-37-37.3      E 87-59-27.0  
 Well Depth: 200(m)      Well Dia: 300/150 (mm)      Drill Dia: 450/318 (mm)  
 S.W.L. : 6.86(m)      Yield : 30.3(l/s)      Max. D/d : 14.84 (m)





# EXPLORATORY WELL LOG

Well No: EX-10      Location: Bhalubathan  
 Site El: 90.26(m)      Coordinate: N 26-33-18.7      E 87-53-26.8  
 Well Depth: 150(m)      Well Dia: 300/150 (mm)      Drill Dia: 445/311 (mm)  
 S.W.L. : 2.19(m)      Yield : 40.0 (l/s)      Max.D/d : 11.91(m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				γ <sub>log</sub>	SP
0.5		(TS)			
3.1		Medium Sand			
6.0		Coarse Sand			
10.0		Sand Gravel			
12.0		Clay			
16.0		Sand Gravel			
19.0		Clay dark grey			
23.0		Sand with small gravel			
38.0		Sand and Gravel			
40.0		Clay			
51.0		Coarse Sand			
55.0		Clay with Gravel			
56.0		Sand and Gravel			
63.0		Sand Gravel with clay			
67.0		Sand and Gravel			
72.0		Sand Gravel with clay			
78.0		Gravel grey			
81.0		Sand brownish			
87.0		Clay grey			
96.0		Gravel			
99.0		Clay dark grey & black	100		
117.0		Sand and Gravel rather few gravel	112		
119.0		Clay			
125.0		Sand and Gravel			
127.0		Clay with Gravel	128		
136.0		Sand and Gravel			
138.0		Clay	134		
147.0		Sand and Gravel			
150.0		Clay with Gravel			

## EXPLORATORY WELL LOG

Well No: EX-11      Location: Balua, Jalthal  
 Site El: 87.08(m)      Cordinate: N 26-30-53.7      E 88-00-52.4  
 Well Depth: 150(m)      Well Dia: 300/150 (mm)      Drill Dia:       /       (mm)  
 S.W.L. : +3.50(m)      Yield : 20.0(l/s)      Max. D/d : 30.84(m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				SPAL	SPAL
13		clay, brown, bottom black			
30		medium sand with gravel			
39		clay, sandy, grey			
43		sand & gravel			
45		medium sand			
50		sand & gravel			
57		sand & gravel			
60		clay, dark grey			
74		coarse sand with gravel			
77		sand with clay			
83		sand & gravel			
86		sand, clay, organic			
88		coarse sand with gravel			
94		clay, dark grey			
100		coarse sand			
97		clay, sandy, dark grey			
101		coarse sand			
107		clay, sticky, black, organic			
109		coars sand			
108		coars sand			
110		clay, sticky, organic			
114		sand & gravel			
126		clay, sticky, dark grey			
131		coarse sand with gravel			
150		clay, sticky, black			

## EXPLORATORY WELL LOG

Well No: EX-12 Location: Gherabari  
 Site El: 71.85(m) Coordinate: N26-25-18.0 E87-55-52.8  
 Well Depth: 150(m) Well Dia: 300/150 (mm) Drill Dia:      /      (mm)  
 S.W.L. : 3.97(m) Yield : 50.2(l/s) Max. D/d : 13.63(m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				SPAL	SPAL
8		medium sand			
17		Sand & gravel			
35		Coarse sand, gry			
50		sand & gravel			
56		clay, grey			
58		sand & gravel			
59		clay, gry			
66		sand & gravel			
71		clay, gry			
78		sand & gravel			
82		medium sand w/ pebble			
87		clay, silty, brn			
93		coarse sand w/ pebble			
100		clay			
107		Coarse sand w/ pebble			
110		clay, dark gry, peaty			
115		coarse sand w/ pebble			
121		clay, gryish brn			
130		coarse sand w/ pebble	123		
136		clay, gry	129		
			136		
150		coarse sand w/ pebble	145		

## EXPLORATORY WELL LOG

Well No: EX-13 Location: Dangabare, Pathamari  
 Site El: 66.44(m) Coordinate: N 26-25-50.5 E 88-04-19.2  
 Well Depth: 100(m) Well Dia: 300/150 (mm) Drill Dia: / (mm)  
 S.W.L. : 1.25(m) Yield : 50.2 (l/s) Max. D/d : 8.30 (m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				100 200 300 400 500 600 700 800	100 200 300 400 500 600 700 800
3		top soil			
9		fine sand w/ silt			
15		medium sand			
18		silt			
45		lot of quartz grain of 1.0cm ave. Coarse sand w/ gravel	46		
50		Sand & gravel	55 60		
73		Sand & gravel	72		
80		coarse sand, clayey			
88		sand & gravel			
93		clayey, sand			
100		sand			

## EXPLORATORY WELL LOG

Well No: EX-14      Location: Tulshibari  
 Site El: 101.31(m)      Coordinate: N 26-36-21,8      E 87-53-22.1  
 Well Depth: 100(m)      Well Dia: 300/150 (mm)      Drill Dia:       /       (mm)  
 S.W.L. : 2.20(m)      Yield : 30.0 (l/s)      Max. D/d : 8.88(m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log
2		Top Soil		
7		coarse sand		
18		Gravel w/ boulder		
22		coarse sand, light brown		
50		gravel w/ sand		
52		clay dark gray	59	
54		sand & gravel	60	
62		clay, dark gray	64	
64		sand & gravel	70	
88		clay	88	
92		sand & gravel	92	
100		sand & gravel	75	

## EXPLORATORY WELL LOG

Well No: EX-15      Location: Jamirgadhi  
 Site El: 107.79(m)      Coordinate: N26-37-27.2      E 88-06-26.8  
 Well Depth: 100(m)      Well Dia: 300/150 (mm)      Drill Dia:      /      (mm)  
 S.W.L. : 1.78(m)      Yield : 34.7(l/s)      Max. D/d : 11.25(m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log
3		Top soil		
12		sand & gravel		
15		clay		
32		sand & gravel with clay		
36		clay		
45		sand & gravel	39	
49		clay	42	
52		sand w/gravel		
60		clay w/organic material		
66		sand & gravel	63	
66		sand & gravel	66	
86		sand & gravel, clayey		
95		sand & gravel	88	
100		clay w/gravel	94	

OBSERVATION WELL LOG

Well No: OB-1 Location: Sunadh, Pathariya  
 Site El: 64.57(m) Coordinate: N26-24-08.3 E 88-00-35.7  
 Well Depth: 300(m) Well Dia: 100(mm) Drill Dia: 216 (mm)  
 S.W.L. : +1.04(m) Related EX-Well: EX-1 Distance : 30 (m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
6		Clayey Top soil			
11		Coarse Sand with clay			
18		Clay, dark gray			
		-rich Quartz grains -partly gravel rich			
38		Coarse Sand with fine gravel, gray			
41		Fine Sand with clay			
50		rich Quartz grains			
69		Coarse Sand with fine gravel, gray			
74		Fine Sand, brownish gray			
		rich Quartz grains brown to brownish gray			
100		Coarse Sand with gravel			
120		Clay, dark gray			
123		Clay, dark gray			
138		Coarse Sand with gravel			
143		Clay, dark gray			
150		Sand & Gravel fine gravel			
156		Clay			
158		Sand & Gravel			
163		Clay			
166		Clay			
173		Coarse Sand with f. gravel			
175		Clay			
180		Coarse Sand			
189		Clay, dark gray			
		Coarse Sand with f. gravel			
200		Coarse Sand with fine gravel			
		partly intervenes fine sand partly gravel rich			
250					
			248		
			249		
			277		
			282		
284		Clay			
287		Clay			
300		Coarse Sand			

OBSERVATION WELL LOG

Well No: OB-2		Location: Bhagdubba		
Site El: 74.96(m)		Cordinates: N 26-27-38.8 E 87-55-57.7		
Well Depth: 250(m)		Well Dia: 100(mm) Drill Dia: 216 (mm)		
S.W.L. : 3.90(m)		Related EX-Well: EX-4 Distance : 30(m)		
Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log
5		Surface soil		
27		Sand & gravel		
30		Clay		
37		Sand & gravel		
40		Clay		
41.5		Sand		
46		Clay, sandy		
50		Sand & gravel		
53		Clay, gray		
64		Sand & gravel		
70		Clay		
99.5		m-c. sand. w/granule		
82		Sand & gravel		
		Clay		
94.5		m-c. sand		
		Sand & gravel		
100		Clay, brn		
		granule.		
		Sandy, 107-113m		
117		Sand & gravel		
125		Sandy clay		
133.5		Sand w/ gravel		
140		Clay, brn		
143		Sand w/ gravel		
146		Clay		
150		Sand w/ gravel		
150		Clay		
155		Sand w/ gravel		
158.5				
172		Sand w/ gravel		
176.5		Clay		
182		Sand & gravel		
184.5		Clay		
187		Sand		
191		Clay, sandy		
197		Sand & gravel		
200		Clay, sandy		
208.5		Sand & gravel	208	
217		Clay, bl		
		sandy at 222-224m	224	
		carbonized wooden fragments at 230m		
248		Sand & gravel		
250		Clay		



## OBSERVATION WELL LOG

Well No: OB-3 Location: Haldibari  
 Site El: 96.75(m) Coordinate: N 26-33-31.4 E 87-59-50.8  
 Well Depth: 200(m) Well Dia: 100(mm) Drill Dia: 216 (mm)  
 S.W.L. : +1.42(m) Related EX-Well: EX-7 Distance : 30.38 (m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				XXXXXXXXXXXX	XXXXXXXXXXXX
1		Top soil			
6		Sand & gravel			
		w/ gravel			
20		Silty clay, gry-dark gry			
22		sand & gravel			
26		Silt, gry-dark brn			
29		Sand & gravel			
35		clay, gry			
38		Sand & gravel			
41		clay, bl			
48		Sand & gravel			
52		Silt, gry			
62		sand & gravel			
65		Silt, brn-gry			
68		Sand & gravel			
72		clay, bl, peaty			
76		Sand w/ gravel			
80		clay, dark brn, peaty			
98		sand & gravel			
102		clay, drk gry			
104		Sand w/ gravel			
111		clay, drk gry			
114		C. sand w/ gravel			
123		clay, silty, gry-dark gry			
126		C. sand w/ gravel			
130		clay, bl, peaty			
132		Sand, C			
134		Silt			
137		C. sand w/ gravel			
141		Silt			
146		sand & gravel	141 144		
154		clay, bl, peaty			
158		Sand w/ clay			
159		Silt			
168		C. Sand	160 166 171		
171		clay, bl			
188		C. sand, 03 grain	180 183 186		
195		clay			
198		C. Sand, 03 grain			
200		clay, drk gry			

OBSERVATION WELL LOG

Well No: OB-4 Location: Balubathan  
 Site El: 91.00(m) Cordinate: N 26-33 -18,7 E 87-53-26.8  
 Well Depth: 150(m) Well Dia: 100(mm) Drill Dia: 216 (mm)  
 S.W.L. : 2.25(m) Related EX-Well: EX-10 Distance : 30 (m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				RESISTIVITY	LOG
30		Top Soil. (brown)			
40		Coarse Sand (brown)			
50		Clay (gray)			
60		Gravel			
70		Sand Gravel, gray			
80		Clay with gravel, brown			
90		Sand, medium size			
100		Clay, gray			
110		Coarse Sand with gravel brown-gray			
120		Clay with gravel, gray			
130		Fine Sand			
140		Coarse Sand, brown			
150		Clay, dark gray			
160		Sand and Gravel			
170		Clay with gravel			
180		Gravel, fine partly sand			
190		Clay, dark gray			
200		Gravel, fine grain			
210		Clay, dark gray			
220		Gravel, partly sand			
230		Clay	100.0		
240		Sand	112.0		
250		Clay			
260		Sand and Gravel			
270		Sand, fine			
280		Sand and Gravel			
290		Clay, gray	130.0		
300		Sand and Gravel, partly fine sand	136.0		
310		Clay			

## OBSERVATION WELL LOG

Well No: OB-5 Location: Jamirgadhi  
 Site El: 108.12(m) Coordinate: N26-37-27 2 E 88-06-26.8  
 Well Depth: 100(m) Well Dia: 100(mm) Drill Dia: 216(mm)  
 S.W.L. : 14.7(m) Related EX-Well: EX-15 Distance : 28.23(m)

Depth (m)	Geolog Log	Lithology	Sc'n SWL	Geophysical Log	
				1500	1500
3.0		Top Soil brown			
6.0		Coarse Sand, brown			
9.0		Fine Sand, brown			
11.0		Clay, dark brown			
13.0		Sand, medium			
17.0		Clay, gray			
25.0		Sand, fine to medium, gray			
27.0		Clay, gray			
34.0		Sand, fine to medium,			
37.0		Fine Sand.			
46.0		Coarse Sand, with gravel	40.0 (3)		
50.0		Clay, dark brown	43.0		
54.0		Sand, fine to coarse.			
65.0		Clay, with organic material dark grey.	65.0		
86.0		Sand with fine gravel include thin clay layers lower parts sandy.	71.0 (16)		
88.0		Clay with gravel	89.0		
95.0		Sand with fine gravel	92.0 (3)		
98.0		Clay, dark gray			
100.0		Fine Sand.			

### 4.2.3. Water Quality Test

Table 4.2.9

RESULTS OF WATER QUALITY TEST

1) SURFACE RIVER

No.	Name of River	Date	Temp. (°C)	Tur. (deg)	Color (deg)	pH	EC (µS/cm)	TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Fe (mg/l)	Mn (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	OH (mg/l)	Cl (mg/l)	SO4 (mg/l)	T. Hd. (mg/l)	N. C. Hd. (mg/l)	Alk. (mg/l)
QC-1	Kankai /Up	1993.1.10	18.0	7	40	7.6	101	50.1	14	11.20	0.12	0.1	38	Nil	Nil	52	14	82	51	31
QC-2	Kankai /Dn	1993.1.13	16.4	10	50	7.7	120	59.8	15	10.25	0.14	0.1	62	Nil	Nil	< 1	14	80	29	51
QC-3	Biring /Up	1993.1.10	21.2	3	18	8.0	124	62.3	17	2.70	0.19	t	62	Nil	Nil	1	12	54	3	51
QC-4	Sarananati /Dn	1993.1.15	16.9	5	21	7.9	146	73.0	18	14.65	0.18	0.1	124	Nil	Nil	1	10	106	4	102
QC-5	Adhuwa N	1993.1.17	19.4	9	63	7.1	47	29.5	3	0.49	0.58	t	22	Nil	Nil	< 1	1	10	Nil	18
QC-6	Biring N	1993.1.14	19.5	6	33	7.1	70	34.8	4	2.00	0.49	0.2	32	Nil	Nil	3	t	19	Nil	26
QC-7	Deoniya /Up	1993.1.12	19.0	6	37	7.3	72	36.2	5	11.96	0.31	t	29	Nil	Nil	66	14	62	98	24
QC-8	Deoniya /Dn	1993.1.12	19.0	7	2	7.0	66	33.1	4	2.68	0.52	0.1	26	Nil	Nil	2	t	21	Nil	21
QC-9	Borojhora Khola	1993.1.11	18.6	40	225	7.4	125	62.4	8	4.64	3.40	1.5	74	Nil	Nil	1	t	40	Nil	61
QC-10	Wechi/Up	1993.1.10	20.0	0	7	8.3	60	29.9	4	0.50	0.03	0.1	12	Nil	Nil	39	14	13	9	10
QC-11	Wechi/Dn	1993.1.11	22.6	5	23	8.1	71	35.3	6	2.61	0.34	0.2	29	Nil	Nil	5	4	25	1	24

2) SHALLOW GROUNDWATER

No.	Name of River	Date	Temp. (°C)	Tur. (deg)	Color (deg)	pH	EC (µS/cm)	TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Fe (mg/l)	Mn (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	OH (mg/l)	Cl (mg/l)	SO4 (mg/l)	T. Hd. (mg/l)	N. C. Hd. (mg/l)	Alk. (mg/l)
QC-12	STW-1	1993.1.12	24.4	9	40	6.3	91	45.1	4	1.95	5.00	0	50	Nil	Nil	1	1	18	Nil	41
QC-13	STW-3'	1993.1.14	24.3	7	38	6.2	107	53.4	10	3.17	2.80	0.2	39	Nil	Nil	1	14	37	5	32
QC-15	STW-11	1993.1.14	25.7	7	10	6.8	137	68.5	8	4.15	6.10	t	80	Nil	Nil	1	1	37	Nil	66
QC-16	STW-4	1993.1.15	25.9	1	1	6.3	97	48.5	5	3.41	2.50	0.2	41	Nil	Nil	4	t	26	Nil	34
QC-17	STW-17	1993.1.8	19.5	4	5	7.1	129	64.0	4	2.68	18.00	0.7	73	Nil	Nil	< 1	t	21	Nil	60
QC-18	STW-20'	1993.1.11	21.8	1	7	6.1	88	43.7	4	1.95	0.80	t	28	Nil	Nil	10	t	19	Nil	23
QC-19	STW-J1	1993.1.14	24.5	13	61	6.4	108	53.9	7	3.17	2.50	0.6	105	Nil	Nil	< 1	1	30	Nil	86
QC-20	STW-J2	1993.1.12	22.7	6	30	6.7	220	109.0	4	6.10	30.20	t	123	Nil	Nil	2	4	35	Nil	101
QC-21	STW-J4	1993.1.10	25.9	5	7	6.9	211	106.8	29	5.10	5.90	0.6	124	Nil	Nil	3	t	94	Nil	102
QC-22	STW-J5	1993.1.13	25.8	8	12	6.5	142	70.0	10	3.17	9.10	0.2	49	Nil	Nil	11	5	37	Nil	40

3) DEEP GROUNDWATER

No.	Name of Well	Date	Temp. (°C)	Tur. (deg)	Color (deg)	pH	EC (µS/cm)	TDS (mg/l)	Ca (mg/l)	Mg (mg/l)	Fe (mg/l)	Mn (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	OH (mg/l)	Cl (mg/l)	SO4 (mg/l)	T. Hd. (mg/l)	N. C. Hd. (mg/l)	Alk. (mg/l)
QC-23	JP-8	1993.1.10	25.6	1	7	7.5	205	102.8	16	5.37	1.37	t	182	Nil	Nil	1	1	63	Nil	157
QC-30	DB-2	1993.1.18	25.2	4	34	7.0	264	131.6	14	6.10	25.10	0.4	170	Nil	Nil	2	t	59	Nil	139
QC-31	DB-3	1993.1.17	27.0	1	3	7.4	145	72.5	11	3.90	0.85	t	87	Nil	Nil	< 1	1	44	Nil	71
QC-32	JP-2	1993.1.18	22.3	3	11	6.8	134	67.3	8	4.40	5.40	0.3	79	Nil	Nil	< 1	1	39	Nil	65

Table 4.2.10  
RESULTS OF WATER QUALITY TEST BY HACH KIT(ANALYZED ON NOV., 1993)

1) SURFACE RIVER

NO.	Name of River	Date	Temp. C	Color unit	pH	EC mS/cm	TDS mg/l	Tur. FTU	Ca mg/l	Mg mg/l	Fe mg/l	Mn mg/l	Na mg/l	K mg/l	T. ALK. mg/l	CO3 mg/l	OH mg/l	Cl mg/l	SO4 mg/l	T. H. mg/l	N. C. mg/l	NO3 mg/l
QS-1	Kankai /UP	1993.11.20	26.7	46	7.50	112.0	56.1	18	12.8	2.20	0.51	0	8	3.30	33	40	NIL	0	7	41	8	8
QS-2	Kankai /DN	1993.11.20	25.9	29	7.68	113.1	56.7	7	12.8	3.12	2.02	0	2	3.04	43	52	NIL	0	9	45	2	2
QS-3	Biring /UP	1993.11.20	25.8	99	7.72	112.0	56.1	18	13.2	2.16	0.18	0	3	3.04	43	52	NIL	10	2	42	1	1
QS-4	Saranamati /DN	1993.11.20	26.1	96	7.68	111.6	55.8	18	12.8	2.40	0.99	0	7	3.42	43	52	NIL	4	8	42	1	7
QS-5	Adhawa N	1993.11.20	26.0	40	7.45	47.8	23.9	1	2.4	1.44	0.21	0	1	1.50	19	23	NIL	4	4	12	7	5
QS-6	Biring N	1993.11.20	25.6	11	7.09	74.2	37.2	3	4.4	2.88	0.78	0	6	2.00	28	34	NIL	2	5	23	1	0
QS-7	Deoniya /UP	1993.11.20	25.9	3	7.24	57.4	28.7	3	4.0	0.96	0.02	0	12	1.66	11	13	NIL	0	3	7	0	0
QS-8	Deoniya /DN	1993.11.20	25.4	77	7.32	37.1	18.5	21	2.0	0.48	3.30	3	6	2.86	17	20	NIL	6	0	11	0	7
QS-9	Borojhora Khola	1993.11.20	25.7	315	7.22	38.8	19.4	60	2.4	1.20	2.13	0	3	3.56	16	19	NIL	1	13	23	7	0
QS-10	Mechi /UP	1993.11.20	25.9	6	7.15	66.9	33.5	1	5.6	2.16	0.25	0	8	1.97	15	18	NIL	0	0	11	0	0
QS-11	Mechi /DN	1993.11.20	26.2	113	6.93	44.7	22.4	21	3.2	0.72	3.3	6	8	1.97	15	18	NIL	0	0	11	0	0

2) SHALLOW GROUNDWATER

NO.	Name of Well	Date	Temp. C	Color unit	pH	EC mS/cm	TDS mg/l	Tur. FTU	Ca mg/l	Mg mg/l	Fe mg/l	Mn mg/l	Na mg/l	K mg/l	T. ALK. mg/l	CO3 mg/l	OH mg/l	Cl mg/l	SO4 mg/l	T. H. mg/l	N. C. mg/l	NO3 mg/l
QCS-1	STW-1	1993.11.28	30.0	38.0	6.27	86.0	40.0	12	4.00	15.40	1.28	0.10	14	1.75	100	121	NIL	0	0	73	0	73
QCS-2	STW-3	1993.11.26	29.5	98.0	6.16	117.8	58.7	18	8.80	7.08	3.15	0.20	3	5.30	58	60	NIL	4	1	51	0	51
QCS-4	STW-4	1993.11.26	29.0	352.0	6.30	113.0	56.5	69	5.60	8.30	2.80	0.50	31	6.70	90	109	NIL	0	0	48	0	48
QCS-3	STW-11	1993.11.30	31.3	100.0	6.70	164.0	82.0	15	12.00	1.00	10.85	0.10	29	6.75	89	109	NIL	0	1	35	0	35
QCS-5	STW-17	1993.11.24	26.0	5.0	6.80	124.1	62.1	0	3.60	3.17	10.05	0.40	6	2.45	54	66	NIL	0	0	22	0	22
QCS-6	STW-20	1993.11.28	27.0	13.0	5.88	180.0	91.0	2	4.40	3.40	1.46	0.00	1	8.95	54	66	NIL	0	1	31	0	31
QCS-7	STW-11	1993.11.26	29.5	0.0	6.27	92.5	46.2	3	5.60	5.40	0.48	0.00	4	3.25	27	32	NIL	5	23	36	0	36
QCS-8	STW-12	1993.11.28	29.0	10.0	6.36	212.0	106.0	10	6.40	3.70	18.60	0.00	24	2.70	71	87	NIL	10	0	31	0	31
QCS-9	STW-14	1993.11.25	26.6	0.0	6.88	263.0	131.0	0	38.00	0.00	8.15	0.60	14	6.00	146	178	NIL	13	8	82	0	82
QCS-10	STW-15	1993.11.25	29.1	14.0	6.18	130.9	64.8	20	8.90	22.70	5.35	0.40	30	6.50	30	38	NIL	14	18	113	0	113

3) DEEP GROUNDWATER

NO.	Name of Well	Date	Temp. C	Color unit	pH	EC mS/cm	TDS mg/l	Tur. FTU	Ca mg/l	Mg mg/l	Fe mg/l	Mn mg/l	Na mg/l	K mg/l	T. ALK. mg/l	CO3 mg/l	OH mg/l	Cl mg/l	SO4 mg/l	T. H. mg/l	N. C. mg/l	NO3 mg/l
QGD-1	JP-8	1993.11.30	31.5	0.0	7.31	239.0	119.0	0	16.00	25.00	1.37	0.20	20	2.70	190	232	NIL	0	0	144	0	144
QGD-3	OB-3	1993.11.30	33.9	1.0	7.30	163.0	81.5	2	13.00	17.00	0.87	0.20	9	1.65	124	151	NIL	0	0	102	0	102
QGD-4	JP-2	1993.11.24	27.6	0.0	6.68	87.5	43.8	0	4.00	7.00	0.82	0.40	2	2.15	34	41	NIL	3	1	38	0	38

Table 4.2.11  
RESULTS OF WATER QUALITY TEST BY LABORATORY ON JAN., 1994

1) SURFACE RIVER

NO.	Name of River	Temp. (C)	pH	EC mS/cm	HCO <sub>3</sub> <sup>-</sup> mg/l	CO <sub>3</sub> <sup>2-</sup> mg/l	TDS mg/L	Cl mg/L	Ca mg/L	Mg mg/l	SO <sub>4</sub> mg/l	NO <sub>3</sub> mg/L	NH <sub>4</sub> mg/l	SiO <sub>2</sub> mg/l	Fe mg/L	Mn mg/l	Na mg/L	K mg/L
QS-1	Kankai /UP	21.5	7.2	120	40	-	100	0.7	13.2	2.2	8.4	-	0.04	17	0.04	-	4.7	2.7
QS-2	Kankai /DN	28.7	6.9	130	57	-	93	2.0	13.6	2.9	2.5	-	0.14	28	0.42	0.26	6.1	3.1
QS-3	Biring /UP	25.0	7.8	135	52	-	72	1.4	14.4	2.7	5.3	-	0.08	17	0.48	0.02	6.3	1.8
QS-4	Sarana mati/DN	27.2	7.2	150	34	-	98	5.4	4.8	2.9	2.7	-	0.36	25	1.15	-	6.5	5.9
QS-5	Adhuwa /N	27.8	6.6	2,780	26	-	77	2.0	3.2	1.2	0.4	-	0.18	27	0.96	-	6.4	2.9
QS-6	Biring	21.7	6.7	69	27	-	83	2.0	3.2	2.4	1.4	-	0.01	28	0.35	0.07	6.1	1.9
QS-7	Deoniya /UP	25.7	6.7	90	21	-	68	2.0	4.8	1.9	5.8	0.1	0.50	21	0.15	-	6.7	1.6
QS-8	Deoniya /DN	21.2	6.7	63	24	-	66	2.7	3.2	1.5	1.4	-	0.01	19	0.18	-	5.4	1.8
QS-9	Borojha Khola	20.9	6.9	98	43	-	103	2.0	4.8	3.4	1.0	-	0.17	31	0.96	0.35	7.7	3.0
QS-10	Mechi /UP	21.9	6.7	74	14	0.8	63	1.4	3.2	1.5	6.6	-	0.14	14	-	-	3.6	2.6
QS-11	Mechi /DN	26.6	8.6	68	27	-	77	2.0	5.2	1.7	3.1	-	0.01	20	0.72	-	4.7	2.9

2) SHALLOW GROUNDWATER

NO.	Name of Well	Temp. (C)	pH	EC mS/cm	HCO <sub>3</sub> <sup>-</sup> mg/l	CO <sub>3</sub> <sup>2-</sup> mg/l	TDS mg/L	Cl mg/L	Ca mg/L	Mg mg/l	SO <sub>4</sub> mg/l	NO <sub>3</sub> mg/L	NH <sub>4</sub> mg/l	SiO <sub>2</sub> mg/l	Fe mg/L	Mn mg/l	Na mg/L	K mg/L
QGS-1	STW-1	26.0	5.7	58	17	-	68	3.4	1.6	1.4	-	4.5	0.09	32	0.21	-	5.8	0.7
QGS-2	STW-3	26.9	6.3	120	37	-	108	6.1	9.6	3.4	3.5	10.5	0.37	24	0.35	-	5.4	4.7
QGS-4	STW-4	25.4	6.3	138	64	-	99	2.0	16.4	3.6	3.9	-	0.17	19	0.10	-	5.5	4.4
QGS-3	STW-11	27.7	6.1	11	57	-	124	0.7	11.2	4.1	2.7	1.9	1.00	44	3.50	-	11.0	1.9
QGS-5	STW-17	26.3	6.4	10	39	-	76	2.0	4.0	2.9	1.0	-	0.17	34	4.58	0.17	7.5	1.8
QGS-6	STW-20	23.6	6.0	120	33	-	104	11.6	3.2	4.4	0.6	2.3	0.27	19	1.07	-	5.6	7.7
QGS-7	STW-J1	26.9	6.1	90	34	-	77	3.4	4.0	2.9	0.4	1.4	0.03	28	0.23	-	6.9	2.2
QGS-8	STW-J2	27.2	6.4	196	64	-	158	-	8.0	3.4	-	-	1.39	56	14.25	0.07	9.2	2.9
QGS-9	STW-J4	28.3	6.7	250	98	-	155	6.1	33.7	2.7	0.4	-	1.44	21	6.45	0.63	3.9	5.7
QGS-10	STW-J5	29.6	6.0	120	30	-	90	-	7.2	2.7	3.7	1.9	0.03	23	0.52	-	4.9	5.2

3) DEEP GROUNDWATER

NO.	Name of Well	Temp. (C)	pH	EC mS/cm	HCO <sub>3</sub> <sup>-</sup> mg/l	CO <sub>3</sub> <sup>2-</sup> mg/l	TDS mg/L	Cl mg/L	Ca mg/L	Mg mg/l	SO <sub>4</sub> mg/l	NO <sub>3</sub> mg/L	NH <sub>4</sub> mg/l	SiO <sub>2</sub> mg/l	Fe mg/L	Mn mg/l	Na mg/L	K mg/L			
	JP-8	25.2	7.1	220	106	-	169	-	16.0	6.3	-	0.4	0.60	42	1.20	-	19.5	1.9			
	JP-9	27.5	6.6	170	75	-	165	0.7	10.4	3.4	-	-	0.62	55	3.21	0.10	14.5	2.4			
	JP-12	23.6	6.5	172	66	-	158	-	10.4	2.2	-	0.3	0.90	56	7.70	-	15.0	1.9			
	JP-13	25.4	6.3	138	57	-	146	-	10.0	8.0	-	4.1	0.50	54	2.60	0.08	11.2	2.0			
	WS-2	27.7	7.2	200	98	-	185	0.7	3.5	6.1	0.2	-	0.22	51	0.22	0.07	18.0	2.5			
	WS-5	25.2	6.4	25	51	-	130	0.7	6.8	2.8	-	-	0.90	51	5.60	-	12.0	1.8			
	EX-1	30.0	8.7	360	165	10.3	242	2.0	4.0	-	0.8	-	0.08	17	-	-	76.0	0.5			
	EX-7	29.0	7.2	150	21	-	59	2.7	1.6	1.7	0.4	-	0.04	23	0.16	-	5.2	1.8			
	EX-8	31.7	7.7	243	117	-	176	0.7	16.0	3.6	0.4	-	0.17	34	-	-	31.2	2.0			
	EX-11	28.8	6.9	21	96	-	169	0.7	16.8	4.9	-	-	0.41	51	1.67	0.10	17.8	2.6			
Detection Limit								1	0.8	5	0.7	0.4	0.2	0.4	0.1	0.01	1	0.04	0.02	-	-

#### 4.2.4. Groundwater Monitoring

Table 4.2.12

#### INVENTORY OF MONITORING WELLS

##### A) Water Level Measurement

##### 1) SHALLOW TUBEWELL

Well No.	Location	Coordinate		Depth (mbgs)	M. P. (mags)	G. L. (masl)	Max. WL (masl)	Min. WL (masl)	Dif. WL (m)
		Lat.	Long.						
STW-1	Prithvinagar	N26-29-08.8	E88-03-45.0	25.1	0.51	97.64	95.878	89.159	6.719
STW-2	Maheshpur	N26-31-23.5	E88-00-18.7	19.2	0.68	83.61	83.846	81.931	1.915
STW-3	Gherabari	N26-25-30.3	E87-55-55.7	13.7	0.64	71.91	71.049	68.124	2.925
STW-4	Phulbari	N26-33-32.2	E87-55-32.7	14.7	0.42	74.89	75.312	71.722	3.590
STW-11	Buttabari	N26-38-41.3	E88-01-09.3	27.5	0.66	127.96	125.587	123.322	2.265
STW-12	Balubattan	N26-33-12.8	E87-53-35.0	18.9	0.69	90.27	89.997	88.217	1.780
STW-13	Sanichare	N26-41-34.2	E88-00-22.3	22.6	0.26	159.26	156.735	153.700	3.035
STW-14	Sangambasti	N26-26-56.4	E88-03-56.4	19.9	1.07	73.26	74.122	72.332	1.790
STW-16	Ghiladubba	N26-36-51.2	E87-56-30.4	13.1	0.70	108.22	107.904	106.529	1.375
STW-17	Satighatta	N26-37-45.5	E88-08-27.3	32.0	0.48	111.41	109.558	107.728	1.830
STW-19	Goldhap	N26-32-47.5	E87-58-08.7	23.9	0.63	91.36	91.459	90.029	1.430
STW-20	Kechana	N26-23-15.0	E87-59-48.6	13.2	0.20	64.44	64.217	61.677	2.540
STW-21	Jalthal	N26-30-30.7	E88-00-09.9	15.1	0.69	87.94	88.631	87.316	1.315
STW-22	Prakashpur	N26-35-10.6	E88-04-13.7	27.4	0.26	101.14	99.450	97.390	2.060
STW-J1	Rajgarh	N26-29-23.1	E87-56-00.3	10.3	0.72	79.01	79.008	76.948	2.060
STW-J2	Balubari	N26-26-58.8	E88-01-03.7	26.0	1.33	72.35	72.507	70.717	1.790
STW-J4	Gohikhadi	N26-37-13.8	E87-53-34.8	11.9	1.09	150.70	149.697	148.157	1.540
STW-J5	Kumarkhod	N26-28-22.1	E87-51-23.4	12.6	0.51	78.13	78.274	74.964	3.310

##### 2) DEEP TUBEWELL DRILLED BY GWRDB AND WATER SUPPLY OFFICE

Well No.	Location	Coordinate		Depth (mbgs)	M. P. (mags)	G. L. (masl)	Max. WL (masl)	Min. WL (masl)	Dif. WL (m)
		Lat.	Long.						
JP-9	Goldhap	N26-33-17.2	E87-58-12.0	146.0	0.10	94.71	94.729	93.244	1.485
JP-10	Ghiladubba	N26-36-51.6	E87-56-55.6	145.0	0.72	107.74	108.450	107.249	1.201
JP-11	Prithvinagar	N26-29-06.8	E88-03-44.6	155.0	0.14	100.54	85.057	82.432	2.625
JP-12	Rajgadhat	N26-30-37.0	E87-56-23.0	168.0	0.82	83.10	82.723	80.583	2.140
JP-13	Tangandubba	N26-28-53.6	E87-51-49.5	158.0	0.16	78.81	77.564	75.914	1.650
JP-14	Sanichare	N26-40-11.2	E87-42-21.4	73.1	1.86	149.79	148.772	145.497	3.275
WS-5	Prithvinagar	N26-27-54.7	E88-04-23.2	150.0	1.55	83.17	77.015	74.760	2.255
WS-14	Sanichare	N26-41-13.0	E87-59-55.6	150.0	1.86	149.462	149.717	147.792	1.925

##### 3) DEEP TUBEWELL DRILLED BY HMG/JICA

Well No.	Location	Coordinate		Depth (mbgs)	M. P. (mags)	G. L. (masl)	Max. WL (masl)	Min. WL (masl)	Dif. WL (m)
		Lat.	Long.						
EX-2	Garamuni	N26-36-10.5	E88-01-24.4	300	0.33	109.19	105.409	104.674	0.735
EX-3	Dangebari	N26-34-27.3	E87-55-35.7	300	0.30	96.46	78.872	77.817	1.055
EX-4	Rajgarh	N26-27-38.8	E87-55-54.6	250	0.62	74.93	72.367	71.007	1.360
EX-5	Prithvinagar	N26-28-07.6	E87-04-20.5	250	0.23	87.62	77.296	74.726	2.570
EX-6	Balubari	N26-27-23.2	E88-00-59.9	250	0.98	75.73	72.151	71.441	0.710
EX-9	Birtabazar	N26-37-37.3	E87-59-27.0	200	0.53	119.49	112.545	111.530	1.015
EX-10	Balubathan	N26-33-20.1	E87-53-26.8	150	0.28	90.20	89.212	87.847	1.365
EX-12	Gherabari	N26-25-18.0	E87-55-52.8	150	0.52	71.74	69.417	67.697	1.720
EX-13	Pathamari	N26-25-50.5	E88-04-19.2	100	1.74	66.55	66.497	65.037	1.460
EX-14	Surunga	N26-36-21.8	E87-53-22.1	100	0.45	101.06	99.979	98.834	1.145
EX-15	Jamirgarhi	N26-37-27.2	E88-06-26.8	100	0.27	107.52	107.599	105.349	2.250

##### B) Piezometric Pressure Measurement

Well No.	Location	Coordinate		Depth (mbgs)	G. L. (masl)	Max. P. (kg/cm <sup>2</sup> )	Min. P. (kg/cm <sup>2</sup> )	Dif. P. (kg/cm <sup>2</sup> )
		Lat.	Long.					
EX-8	Prithvinagar	N26-30-10.1	E88-04-22.6	200	80.84	0.85	0.75	0.100
EX-11	Jalthal	N26-30-53.7	E88-00-52.4	150	87.08	0.34	0.26	0.080

##### C) Discharge Measurement of Free Flowing

Well No.	Location	Coordinate		Depth (mbgs)	G. L. (masl)	Max. Dis (l/s)	Min. Dis (l/s)	Dif. Dis (l/s)
		Lat.	Long.					
EX-1	Pathapari	N26-24-08.3	E88-00-37.5	300	64.44	14.00	11.1	2.900
EX-7	Halidibari	N26-33-31.4	E87-59-50.8	200	96.40	25.00	13.5	11.500
EX-8	Prithvinagar	N26-30-10.1	E88-04-22.6	200	80.84	5.10	3.1	2.000
EX-11	Jalthal	N26-30-53.7	E88-00-52.4	150	87.08	6.20	5.3	0.900

Table 4.2.13

STW-1: Prithivinagar G. L.(mamsl) 97.638		STW-2: Mahespur G. L.(mamsl) 83.611		STW-3: Gherabari G. L.(mamsl) 71.909		STW-4: Phulbari G. L.(mamsl) 74.892		STW-11: Buttahari G. L.(mamsl) 127.957	
Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(masl)
92/12/04	91.948	92/11/29	82.491	92/11/30	68.739	92/11/27	72.042	92/11/27	123.897
92/12/11	91.913	92/12/07	82.466	92/12/08	68.669	92/12/06	72.052	92/12/06	123.687
92/12/25	91.758	92/12/14	82.406	92/12/15	68.614	92/12/13	72.022	92/12/13	123.637
93/01/01	91.658	92/12/21	82.321	92/12/22	68.569	92/12/20	71.982	92/12/20	123.597
93/01/08	91.578	92/12/28	82.291	93/01/05	68.479	92/12/28	71.952	92/12/29	123.597
93/01/15	91.493	93/01/04	82.296	93/01/12	68.459	93/01/03	71.927	93/01/03	123.697
93/01/22	91.398	93/01/11	82.346	93/01/19	68.439	93/01/10	71.937	93/01/10	123.677
93/01/29	91.303	93/01/18	82.321	93/01/26	68.424	93/01/17	71.927	93/01/17	123.612
93/02/04	91.223	93/01/25	82.296	93/02/02	68.404	93/01/24	71.902	93/01/24	123.557
93/02/11	91.138	93/02/01	82.266	93/02/10	68.389	93/01/31	71.892	93/01/31	123.537
93/03/16	90.653	93/02/08	82.201	93/02/17	68.369	93/02/07	71.862	93/02/07	123.517
93/03/23	90.368	93/02/16	82.226	93/02/24	68.349	93/02/16	71.862	93/02/18	123.487
93/03/30	89.823	93/02/23	82.136	93/03/03	68.329	93/02/23	71.847	93/02/25	123.467
93/05/10	89.508	93/03/02	82.176	93/03/10	68.309	93/03/02	71.832	93/03/04	123.447
93/05/17	89.358	93/03/09	82.146	93/03/17	68.294	93/03/09	71.817	93/03/11	123.412
93/05/23	89.198	93/03/16	82.106	93/03/24	68.274	93/03/14	71.812	93/03/18	123.367
93/05/31	89.983	93/03/23	82.071	93/03/31	68.254	93/03/23	71.787	93/03/25	123.332
93/06/07	89.918	93/03/30	82.036	93/04/07	68.234	93/03/30	71.777	93/04/01	123.362
93/06/14	89.878	93/04/09	82.001	93/04/14	68.214	93/04/06	71.762	93/04/08	123.322
93/06/21	89.898	93/04/13	81.961	93/04/21	68.199	93/04/13	71.732	93/04/15	123.357
93/06/28	89.158	93/04/20	81.951	93/04/28	68.189	93/04/20	71.722	93/04/22	123.412
93/07/05	90.258	93/04/26	81.991	93/05/05	68.179	93/04/27	71.737	93/04/28	123.437
93/07/12	91.898	93/05/03	81.936	93/05/12	68.164	93/05/04	71.782	93/05/05	123.417
93/07/19	92.453	93/05/10	81.951	93/05/19	68.149	93/05/11	71.762	93/05/12	123.377
93/07/26	93.588	93/05/17	81.946	93/05/26	68.124	93/05/18	71.752	93/05/19	123.432
93/08/02	94.188	93/05/25	81.931	93/06/02	68.149	93/05/25	71.787	93/05/26	123.467
93/08/09	95.223	93/05/31	81.991	93/06/09	68.239	93/06/01	72.012	93/06/02	123.767
93/08/16	95.413	93/06/07	82.221	93/06/16	68.364	93/06/08	72.297	93/06/09	123.827
93/08/23	95.203	93/06/14	82.351	93/06/23	68.474	93/06/15	72.302	93/06/16	123.817
93/08/30	95.878	93/06/21	82.676	93/06/30	68.709	93/06/22	72.432	93/06/23	124.017
93/09/06	95.473	93/06/28	82.436	93/07/07	69.479	93/06/29	72.882	93/06/30	124.267
93/09/13	95.188	93/07/05	82.666	93/07/14	69.489	93/07/06	73.257	93/07/07	124.372
93/09/20	95.048	93/07/12	83.266	93/07/21	70.439	93/07/13	75.312	93/07/14	124.297
93/09/27	94.868	93/07/19	83.381	93/07/28	70.689	93/07/20	73.727	93/07/21	124.757
93/10/04	95.558	93/07/26	83.436	93/08/04	71.049	93/07/27	73.682	93/07/28	124.587
93/10/11	95.208	93/08/02	83.456	93/08/11	70.904	93/08/03	73.832	93/08/04	124.692
93/10/18	95.693	93/08/09	83.596	93/08/18	70.384	93/08/10	74.097	93/08/11	124.697
93/11/01	94.938	93/08/16	83.526	93/08/25	70.324	93/08/17	73.822	93/08/18	125.587
93/11/08	94.783	93/08/23	83.496	93/09/02	70.654	93/08/24	73.812	93/08/25	124.477
93/11/22	94.188	93/08/30	83.846	93/09/08	70.184	93/08/31	73.847	93/09/01	124.582
93/11/29	94.083	93/09/06	83.456	93/09/15	69.819	93/09/07	73.262	93/09/08	124.387
93/12/06	94.163	93/09/13	83.316	93/09/22	69.584	93/09/14	72.907	93/09/15	124.387
93/12/13	93.848	93/09/20	83.226	93/09/29	70.384	93/09/21	72.692	93/09/22	124.317
93/12/27	93.413	93/09/27	83.326	93/10/06	70.099	93/09/28	74.252	93/09/29	124.627
94/01/03	93.323	93/10/04	83.476	93/10/13	69.824	93/10/05	73.912	93/10/05	124.502
94/01/10	94.313	93/10/11	83.351	93/10/20	69.769	93/10/12	73.227	93/10/13	124.407
94/01/17	93.173	93/10/18	83.436	93/11/03	69.354	93/10/19	73.322	93/10/20	124.452
94/01/24	94.058	93/11/01	83.116	93/11/10	69.214	93/11/02	72.662	93/11/03	124.047
94/01/31	92.928	93/11/08	83.061	93/11/17	69.089	93/11/09	72.527	93/11/10	124.102
94/02/07	92.748	93/11/22	82.836	93/11/24	68.989	93/11/16	72.422	93/11/17	123.862
		93/11/29	82.716	93/12/01	68.899	93/11/23	72.327	93/11/24	123.877
		93/12/06	82.766	93/12/08	68.899	93/11/30	72.232	93/12/01	123.777
		93/12/13	82.701	93/12/15	68.679	93/12/07	72.162	93/12/08	123.742
		93/12/20	82.526	93/12/22	68.684	93/12/14	72.102	93/12/15	123.832
		93/12/27	82.491	93/12/29	68.629	93/12/21	72.042	93/12/22	123.707
		94/01/03	82.496	94/01/12	68.524	93/12/28	71.997	93/12/29	123.567
		94/01/10	82.496	94/01/19	68.499	94/01/04	71.967	94/01/05	123.537
		94/01/17	82.501	94/01/26	68.459	94/01/11	71.937	94/01/12	123.637
		94/01/24	82.461	94/02/02	68.429	94/01/18	71.967	94/01/19	123.787
		94/01/31	82.426	94/02/09	68.469	94/01/25	71.957	94/01/26	123.722
		94/02/07	82.346			94/02/01	71.927	94/02/02	123.752
						94/02/08	71.922	94/02/09	123.712



Table 4.2.14

STW-12: Balubathan

G. L.(mamsl) 90.272

Date	W. L.(masl)
92/12/01	88.532
92/12/09	88.532
92/12/16	88.492
92/12/23	88.467
92/12/30	88.447
93/01/06	88.422
93/01/13	88.497
93/01/20	88.492
93/01/27	88.482
93/02/03	88.467
93/02/11	88.437
93/02/18	88.432
93/02/25	88.412
93/03/04	88.402
93/03/11	88.377
93/03/18	88.357
93/03/25	88.337
93/04/01	88.307
93/04/08	88.272
93/04/15	88.242
93/04/22	88.217
93/04/29	88.217
93/05/06	88.287
93/05/13	88.282
93/05/20	88.282
93/05/27	88.262
93/05/30	88.382
93/06/06	88.677
93/06/14	88.822
93/06/20	88.797
93/06/27	89.182
93/07/04	89.952
93/07/11	89.572
93/07/18	89.957
93/07/25	89.822
93/08/01	89.997
93/08/08	89.972
93/08/15	89.747
93/08/22	89.362
93/08/29	89.777
93/09/05	89.432
93/09/12	89.132
93/09/19	88.982
93/09/26	89.177
93/10/03	89.892
93/10/10	89.367
93/10/17	89.612
93/10/31	88.962
93/11/07	88.937
93/11/21	88.762
93/11/28	88.702
93/12/05	88.642
93/12/12	88.602
93/12/19	88.552
93/12/26	88.517
94/01/02	88.532
94/01/09	88.452
94/01/16	88.457
94/01/23	88.522
94/01/30	88.477
94/02/09	88.462

STW-13: Sanishchare

G. L.(mamsl) 159.26

Date	W. L.(masl)
92/12/14	154.570
92/12/21	154.535
92/12/29	154.505
93/01/04	154.495
93/01/11	154.505
93/01/18	154.480
93/01/25	154.450
93/02/01	154.415
93/02/08	154.380
93/02/18	154.340
93/02/25	154.315
93/03/04	154.285
93/03/11	154.240
93/03/18	154.185
93/03/25	154.145
93/04/01	154.115
93/04/08	154.060
93/04/15	154.015
93/04/22	153.970
93/04/28	153.925
93/05/05	153.865
93/05/12	153.800
93/05/19	153.750
93/05/26	153.700
93/06/02	153.730
93/06/09	153.745
93/06/16	153.705
93/06/23	153.740
93/06/30	154.450
93/07/07	155.615
93/07/14	155.355
93/07/21	156.735
93/07/28	156.235
93/08/04	156.355
93/08/11	156.390
93/08/18	156.115
93/08/25	156.070
93/09/01	156.085
93/09/08	155.715
93/09/15	155.660
93/09/22	155.530
93/09/29	155.530
93/10/05	155.990
93/10/13	155.770
93/10/20	155.975
93/11/03	155.240
93/11/10	155.270
93/11/17	154.970
93/11/24	154.990
93/12/01	154.890
93/12/08	154.825
93/12/15	154.855
93/12/22	154.705
93/12/29	154.550
94/01/05	154.535
94/01/12	154.600
94/01/19	154.680
94/01/26	154.645
94/02/02	154.620
94/02/09	154.635

STW-14: Sangambusti

G. L.(mamsl) 73.262

Date	W. L.(masl)
92/11/29	73.042
92/12/07	73.032
92/12/14	72.992
92/12/21	72.932
92/12/28	72.867
93/01/04	72.847
93/01/11	72.872
93/01/18	72.847
93/01/25	72.802
93/02/01	72.772
93/02/08	72.722
93/02/16	72.687
93/02/23	72.712
93/03/02	72.607
93/03/09	72.582
93/03/16	72.542
93/03/23	72.492
93/03/30	72.482
93/04/06	72.442
93/04/13	72.397
93/04/20	72.367
93/04/25	72.332
93/05/02	72.362
93/05/09	72.437
93/05/16	72.337
93/05/24	72.407
93/05/30	72.512
93/06/07	72.637
93/06/13	72.752
93/06/20	72.752
93/06/27	73.012
93/07/04	72.912
93/07/11	73.517
93/07/18	73.667
93/07/25	73.912
93/08/01	73.992
93/08/08	74.122
93/08/15	74.032
93/08/22	74.022
93/08/29	74.062
93/09/05	74.022
93/09/12	73.957
93/09/19	73.837
93/09/26	73.732
93/10/03	73.942
93/10/10	73.887
93/10/17	73.942
93/10/31	73.662
93/11/07	73.537
93/11/21	73.282
93/11/28	73.192
93/12/05	73.247
93/12/12	73.217
93/12/19	73.062
93/12/26	73.012
94/01/02	72.952
94/01/09	72.957
94/01/16	72.952
94/01/23	72.912
94/01/30	72.907
94/02/06	72.902

STW-16: Ghailadubba

G. L.(mamsl) 108.219

Date	W. L.(masl)
92/11/27	106.759
92/12/06	106.859
92/12/13	106.779
92/12/20	106.724
92/12/28	106.694
93/01/03	106.749
93/01/10	106.799
93/01/17	106.759
93/01/24	106.719
93/01/31	106.694
93/02/07	106.654
93/02/14	106.674
93/02/21	106.684
93/02/28	106.639
93/03/07	106.629
93/03/14	106.604
93/03/21	106.569
93/03/28	106.619
93/04/04	106.564
93/04/11	106.529
93/04/18	106.529
93/04/26	106.584
93/05/03	106.684
93/05/10	106.659
93/05/17	106.684
93/05/24	106.699
93/05/31	107.229
93/06/07	107.664
93/06/14	107.389
93/06/21	107.784
93/06/28	107.824
93/07/05	107.734
93/07/12	107.404
93/07/19	107.904
93/07/26	107.654
93/08/02	107.844
93/08/09	107.734
93/08/16	107.649
93/08/23	107.709
93/08/30	107.819
93/09/06	107.399
93/09/13	107.119
93/09/20	107.114
93/09/28	107.869
93/10/04	107.689
93/10/11	107.639
93/10/18	107.639
93/11/01	106.979
93/11/08	107.264
93/11/22	106.939
93/11/29	106.859
93/12/06	106.804
93/12/13	106.769
93/12/20	106.744
93/12/27	106.724
94/01/03	106.704
94/01/10	106.694
94/01/17	106.964
94/01/25	106.904
94/01/31	106.819
94/02/07	107.034

STW-17: Sattighatta

G. L.(mamsl) 111.408

Date	W. L.(masl)
92/11/27	108.228
92/12/06	108.168
92/12/13	108.128
92/12/20	108.078
92/12/30	108.108
93/01/03	108.123
93/01/10	108.148
93/01/17	108.133
93/01/24	108.078
93/01/31	108.038
93/02/07	108.053
93/02/18	108.063
93/02/25	107.998
93/03/04	108.028
93/03/11	107.998
93/03/18	107.953
93/03/25	107.903
93/04/01	107.878
93/04/08	107.868
93/04/13	107.873
93/04/22	107.728
93/04/29	108.038
93/05/06	108.028
93/05/13	108.058
93/05/20	108.058
93/05/27	108.078
93/06/03	108.338
93/06/10	108.348
93/06/17	108.253
93/06/24	108.748
93/07/01	109.078
93/07/08	108.888
93/07/15	108.708
93/07/22	109.558
93/07/29	109.248
93/08/05	109.458
93/08/12	109.288
93/08/19	109.008
93/08/26	109.023
93/09/02	108.918
93/09/09	108.738
93/09/16	108.818
93/09/23	108.773
93/09/30	109.228
93/10/07	109.058
93/10/14	109.178
93/10/21	109.118
93/11/04	108.558
93/11/11	108.498
93/11/18	108.368
93/11/25	108.263
93/12/02	108.228
93/12/09	108.138
93/12/16	108.128
93/12/23	108.153
93/12/30	108.118
94/01/06	107.973
94/01/13	108.068
94/01/20	108.018
94/01/27	108.263
94/02/03	108.053
94/02/10	108.083

Table 4.2.15

STW-19: Goldhap		STW-20: Kechana		STW-21: Jalthal		STW-22: Prakashpur		STW-J1 Rajgarh	
G. L.(mamsl) 91.359		G. L.(mamsl) 64.437		G. L.(mamsl) 87.941		G. L.(mamsl) 101.14		G. L.(mamsl) 79.008	
Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(masl)
92/11/27	90.649	92/12/04	62.617	92/12/03	88.001	92/11/29	98.070	92/11/30	77.488
92/12/06	90.649	92/12/11	62.527	92/12/10	87.966	92/12/07	98.080	92/12/08	77.463
92/12/13	90.584	92/12/18	62.487	92/12/17	87.931	92/12/14	98.030	92/12/15	77.413
92/12/20	90.539	92/12/25	62.437	92/12/24	87.881	92/12/21	98.030	92/12/22	77.368
92/12/28	90.499	93/01/01	62.347	92/12/31	87.836	92/12/28	98.035	92/12/29	77.298
93/01/03	90.484	93/01/08	62.327	93/01/07	87.821	93/01/04	98.030	93/01/05	77.268
93/01/10	90.579	93/01/15	62.317	93/01/14	87.846	93/01/11	98.105	93/01/12	77.303
93/01/17	90.534	93/01/22	62.277	93/01/21	87.801	93/01/18	98.125	93/01/19	77.273
93/01/24	90.484	93/01/29	62.232	93/01/28	87.691	93/01/25	98.025	93/01/26	77.248
93/01/31	90.439	93/02/04	62.197	93/02/04	87.726	93/02/01	98.040	93/02/02	77.228
93/02/07	90.394	93/02/11	62.177	93/02/10	87.686	93/02/08	97.985	93/02/10	77.198
93/02/15	90.364	93/02/14	62.157	93/02/17	87.671	93/02/17	97.940	93/02/17	77.178
93/02/22	90.319	93/02/21	62.107	93/02/24	87.651	93/02/24	97.885	93/02/24	77.148
93/03/01	90.289	93/02/28	62.067	93/03/03	87.561	93/03/03	97.850	93/03/03	77.123
93/03/08	90.249	93/03/07	62.037	93/03/10	87.511	93/03/10	97.800	93/03/10	77.098
93/03/15	90.214	93/03/14	61.947	93/03/17	87.481	93/03/17	97.740	93/03/17	77.073
93/03/22	90.169	93/03/21	61.877	93/03/24	87.441	93/03/24	97.680	93/03/24	77.048
93/03/29	90.149	93/03/28	61.882	93/03/31	87.436	93/03/31	97.655	93/03/31	77.028
93/04/05	90.099	93/04/04	61.857	93/04/07	87.386	93/04/07	97.585	93/04/07	76.998
93/04/12	90.059	93/04/11	61.787	93/04/14	87.351	93/04/14	97.530	93/04/14	76.968
93/04/19	90.029	93/04/18	61.727	93/04/20	87.316	93/04/21	97.500	93/04/21	76.948
93/04/29	90.214	93/04/25	61.682	93/04/27	87.316	93/04/27	97.495	93/04/28	77.038
93/05/06	90.264	93/05/02	61.677	93/05/04	87.341	93/05/04	97.470	93/05/05	77.043
93/05/13	90.209	93/05/09	61.742	93/05/11	87.351	93/05/11	97.420	93/05/12	77.048
93/05/20	90.209	93/05/16	61.727	93/05/18	87.346	93/05/18	97.390	93/05/19	77.103
93/05/27	90.234	93/05/24	61.797	93/05/25	87.371	93/05/25	97.400	93/05/26	77.113
93/06/03	90.844	93/05/30	61.917	93/06/01	87.631	93/06/01	97.685	93/06/03	77.273
93/06/10	91.049	93/06/07	61.857	93/06/15	88.271	93/06/07	98.310	93/06/09	77.448
93/06/17	90.799	93/06/13	61.787	93/06/22	88.631	93/06/15	98.350	93/06/16	77.708
93/06/24	91.159	93/06/20	62.147	93/06/29	88.521	93/06/22	98.590	93/06/23	78.493
93/07/01	91.359	93/06/27	62.972	93/07/06	88.501	93/06/29	99.070	93/06/30	78.978
93/07/08	91.309	93/07/04	63.142	93/07/13	88.461	93/07/07	99.090	93/07/07	78.878
93/07/15	91.274	93/07/11	63.267	93/07/20	88.501	93/07/13	99.155	93/07/14	78.863
93/07/22	91.459	93/07/18	63.662	93/07/27	88.631	93/07/20	99.450	93/07/21	78.968
93/07/29	91.349	93/07/25	63.687	93/08/03	88.631	93/07/27	99.400	93/07/28	78.903
93/08/05	91.429	93/08/01	63.827	93/08/10	88.631	93/08/03	99.350	93/08/04	79.008
93/08/12	91.379	93/08/08	64.147	93/08/17	88.631	93/08/10	99.415	93/08/11	78.928
93/08/19	91.419	93/08/15	64.217	93/08/24	88.631	93/08/17	99.315	93/08/18	78.833
93/08/26	91.389	93/08/22	63.387	93/08/31	88.631	93/08/24	99.400	93/08/25	78.893
93/09/03	91.359	93/08/29	63.767	93/09/07	88.631	93/08/31	99.360	93/09/02	78.863
93/09/09	91.269	93/09/05	63.747	93/09/13	88.631	93/09/07	99.240	93/09/08	78.713
93/09/16	91.249	93/09/12	63.477	93/09/20	88.631	93/09/14	99.300	93/09/15	78.338
93/09/23	91.039	93/09/19	63.397	93/09/27	88.631	93/09/21	99.265	93/09/22	78.208
93/09/30	91.399	93/09/26	63.307	93/10/06	88.631	93/09/28	99.415	93/09/29	78.948
93/10/07	91.319	93/10/03	63.597	93/10/13	88.631	93/10/06	99.270	93/10/06	78.703
93/10/14	91.364	93/10/10	63.327	93/10/20	88.631	93/10/13	99.330	93/10/13	78.658
93/09/21	91.304	93/10/17	63.727	93/11/02	88.631	93/10/20	99.270	93/10/20	78.653
93/11/04	90.964	93/10/31	63.117	93/11/09	88.631	93/11/02	98.820	93/11/03	78.938
93/11/11	91.069	93/11/07	63.017	93/11/16	88.631	93/11/09	98.775	93/11/10	78.073
93/11/18	90.929	93/11/21	62.822	93/11/23	88.631	93/11/16	98.660	93/11/17	77.993
93/11/25	90.839	93/11/28	62.737	93/11/30	88.631	93/11/23	98.540	93/11/24	78.038
93/12/02	90.769	93/12/05	62.812	93/12/09	88.631	93/11/30	98.455	93/12/01	77.798
93/12/09	90.714	93/12/12	62.692	93/12/07	88.631	93/12/07	98.390	93/12/08	77.728
93/12/16	90.654	93/12/19	62.552	93/12/14	88.631	93/12/14	98.505	93/12/15	77.653
93/12/23	90.604	93/12/26	62.502	93/12/21	88.606	93/12/21	98.495	93/12/22	77.588
93/12/30	90.539	94/01/02	62.422	93/12/28	88.596	93/12/28	98.570	93/12/29	77.583
94/01/06	90.539	94/01/09	62.382	94/01/04	88.516	94/01/04	98.355	94/01/05	77.708
94/01/13	90.509	94/01/16	62.377	94/01/11	88.076	94/01/11	98.355	94/01/12	77.413
94/01/20	90.729	94/01/26	62.372	94/01/18	88.361	94/01/18	98.530	94/01/19	77.468
94/01/27	90.624	94/01/30	62.362	94/01/25	88.321	94/01/25	98.480	94/01/26	77.438
94/02/03	90.669	94/02/06	62.317	94/02/01	87.211	94/02/01	98.405	94/02/02	77.413
94/02/10	90.694			94/02/08	88.241	94/02/08	98.340	94/02/09	77.453

Table 4.2.16

STW-J2 Balubari		STW-J4 Gohikhadi		STW-J5 Kumarkhod		JP-9 Goldhap		JP-10 Ghailadubba	
G. L.(mamsl) 72.347		G. L.(mamsl) 150.702		G. L.(mamsl) 78.134		G. L.(mamsl) 94.714		G. L.(mamsl) 107.744	
Date	W. L(masl)	Date	W. L(masl)	Date	W. L(masl)	Date	W. L(masl)	Date	W. L(masl)
92/11/29	71.467	92/12/01	148.432	92/12/01	75.574	92/12/03	93.964	92/11/27	107.509
92/12/07	71.427	92/12/09	148.447	92/12/09	75.499	92/12/10	93.929	92/12/06	107.589
92/12/14	71.397	92/12/16	148.402	92/12/16	75.434	92/12/17	93.874	92/12/13	107.534
92/12/21	71.357	92/12/23	148.402	92/12/30	75.294	92/12/24	93.824	92/12/20	107.479
92/12/28	71.317	92/12/30	148.302	93/01/06	75.249	92/12/31	93.779	92/12/28	107.449
93/01/04	71.277	93/01/06	148.292	93/01/13	75.249	93/01/07	93.764	93/01/03	107.444
93/01/11	71.272	93/01/13	148.362	93/01/20	75.239	93/01/14	93.754	93/01/10	107.519
93/01/18	71.267	93/01/20	148.317	93/01/27	75.214	93/01/21	93.724	93/01/17	107.499
93/01/25	71.237	93/01/27	148.297	93/02/03	75.199	93/01/28	93.689	93/01/24	107.469
93/02/01	71.047	93/02/03	148.307	93/02/11	75.114	93/02/04	93.649	93/01/31	107.449
93/02/08	71.117	93/02/11	148.312	93/02/18	75.154	93/02/12	93.604	93/02/07	107.414
93/02/14	71.082	93/02/18	148.292	93/02/25	75.109	93/02/15	93.589	93/02/14	107.419
93/02/21	70.977	93/02/25	148.297	93/03/04	75.094	93/02/22	93.539	93/02/21	107.424
93/02/28	71.007	93/03/04	148.282	93/03/11	75.079	93/03/01	93.509	93/02/28	107.389
93/03/07	70.987	93/03/11	148.267	93/03/18	75.059	93/03/08	93.479	93/03/07	107.379
93/03/14	70.957	93/03/18	148.242	93/03/25	75.034	93/03/15	93.454	93/03/14	107.349
93/03/21	70.927	93/03/25	148.167	93/04/01	75.024	93/03/22	93.414	93/03/21	107.294
93/03/28	70.937	93/04/01	148.207	93/04/08	75.009	93/03/29	93.394	93/03/28	107.329
93/04/18	71.382	93/04/08	148.187	93/04/15	74.989	93/04/05	93.354	93/04/04	107.284
93/05/02	70.717	93/04/15	148.172	93/04/22	74.969	93/04/12	93.319	93/04/11	107.249
93/05/09	70.742	93/04/22	148.157	93/04/29	74.964	93/04/19	93.294	93/04/18	107.254
93/05/16	70.732	93/04/25	148.157	93/05/02	75.004	93/04/29	93.314	93/04/26	107.304
93/05/24	70.812	93/05/02	148.247	93/05/09	75.014	93/05/06	93.309	93/05/03	107.389
93/05/30	70.962	93/05/09	148.257	93/05/16	75.059	93/05/13	93.289	93/05/10	107.364
93/06/07	71.157	93/05/16	148.262	93/05/23	75.134	93/05/20	93.254	93/05/17	107.379
93/06/13	71.267	93/05/23	148.257	93/05/30	75.214	93/05/27	93.244	93/05/24	107.389
93/06/20	71.342	93/05/30	148.332	93/06/06	75.299	93/06/03	93.409	93/05/31	107.694
93/06/27	71.902	93/06/06	148.672	93/06/14	75.724	93/06/10	93.654	93/06/07	108.039
93/07/04	71.617	93/06/14	148.732	93/06/20	75.649	93/06/17	93.704	93/06/14	107.939
93/07/11	71.727	93/06/20	148.687	93/06/27	76.219	93/06/24	93.944	93/06/21	108.039
93/07/18	72.127	93/06/27	148.962	93/07/04	76.734	93/07/01	94.284	93/06/28	108.254
93/07/25	71.947	93/07/04	149.227	93/07/11	76.889	93/07/08	94.394	93/07/05	108.274
93/08/01	72.107	93/07/18	149.697	93/07/18	77.139	93/07/15	94.424	93/07/12	108.049
93/08/08	72.237	93/07/25	149.567	93/07/25	76.909	93/07/22	94.634	93/07/19	108.329
93/08/15	72.507	93/08/01	149.677	93/08/01	77.074	93/07/29	94.619	93/07/26	108.284
93/08/22	71.967	93/08/08	149.677	93/08/08	78.274	93/08/05	94.689	93/08/02	108.450
93/08/29	72.302	93/08/15	149.392	93/08/15	76.789	93/08/12	94.729	93/08/09	108.364
93/09/05	72.307	93/08/22	149.107	93/08/22	76.584	93/08/19	94.729	93/08/16	108.259
93/09/12	72.277	93/08/29	149.327	93/08/29	76.964	93/08/26	94.719	93/08/23	108.154
93/09/19	72.207	93/09/05	149.167	93/09/05	76.669	93/09/03	94.709	93/08/30	108.284
93/09/26	72.122	93/09/12	148.937	93/09/12	76.504	93/09/09	94.649	93/09/06	108.089
93/10/03	72.192	93/09/19	148.847	93/09/19	76.324	93/09/16	94.559	93/09/13	107.924
93/10/10	72.192	93/09/26	148.917	93/09/26	76.389	93/09/23	94.479	93/09/20	107.919
93/10/17	72.222	93/10/03	149.652	93/10/03	76.829	93/09/30	94.684	93/09/28	108.324
93/10/31	72.112	93/10/10	149.342	93/10/10	76.524	93/10/07	94.724	93/10/04	108.319
93/11/07	72.002	93/10/17	149.467	93/10/17	76.744	93/10/14	94.719	93/10/11	108.239
93/11/21	71.807	93/10/31	148.872	93/10/31	76.264	93/10/21	94.704	93/10/18	108.294
93/11/28	71.727	93/11/07	148.837	93/11/07	76.304	93/11/04	94.434	93/11/01	107.779
93/12/05	71.892	93/11/21	148.642	93/11/21	76.019	93/11/11	94.359	93/11/08	107.924
93/12/12	71.722	93/11/28	148.567	93/11/28	75.884	93/11/18	94.269	93/11/22	107.704
93/12/19	71.582	93/12/05	148.497	93/12/05	75.754	93/11/25	94.179	93/11/29	107.629
93/12/26	71.432	93/12/12	148.432	93/12/12	75.664	93/12/02	94.114	93/12/06	107.579
94/01/02	71.657	93/12/19	148.377	93/12/19	75.564	93/12/09	94.014	93/12/13	107.544
94/01/09	71.432	93/12/26	148.347	93/12/26	75.484	93/12/16	93.969	93/12/20	107.519
94/01/16	71.432	94/01/02	148.352	94/01/02	75.399	93/12/23	93.984	93/12/27	107.499
94/01/26	71.417	94/01/09	148.347	94/01/09	75.309	94/01/06	93.929	94/01/03	107.474
94/01/30	71.422	94/01/16	148.342	94/01/16	75.284	94/01/13	93.914	94/01/10	107.464
94/02/06	71.482	94/01/26	148.362	94/01/23	75.249	94/01/20	93.929	94/01/17	107.624
		94/01/30	148.322	94/01/30	75.174	94/01/27	93.889	94/01/24	107.624
		94/02/06	148.332	94/02/06	75.169	94/02/10	93.849	94/02/07	107.709

Table 4.2.17

JP-11 Prithivinagar		JP-12 Rajgadhatte		JP-13 Tangandubha		JP-14 Sanishchare		EX-2 GARAMUNI	
G. L.(mamsl)	100.542	G. L.(mamsl)	83.098	G. L.(mamsl)	78.809	G. L.(mamsl)	149.792	G. L.(mamsl)	109.194
Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(masl)
92/11/29	83.692	92/11/30	81.098	92/12/01	76.249	92/11/29	148.772	93/04/11	104.734
92/12/07	83.662	92/12/08	81.068	92/12/09	76.239	92/12/14	148.652	93/04/21	104.719
92/12/14	83.572	92/12/15	81.028	92/12/16	76.199	92/12/21	148.592	93/04/27	104.739
92/12/21	83.512	92/12/22	80.978	92/12/23	76.169	92/12/29	148.507	93/05/04	104.739
92/12/28	83.462	92/12/29	80.928	92/12/30	76.129	93/01/04	148.467	93/05/11	104.689
93/01/04	83.412	93/01/05	80.893	93/01/06	76.129	93/01/11	148.412	93/05/18	104.674
93/01/11	83.387	93/01/12	80.903	93/01/13	76.174	93/01/18	148.362	93/05/26	104.679
93/01/18	83.332	93/01/19	80.868	93/01/20	76.179	93/01/25	148.282	93/06/02	104.744
93/01/25	83.282	93/01/26	80.848	93/01/27	76.169	93/02/01	148.172	93/06/09	104.749
93/02/01	83.222	93/02/02	80.828	93/02/03	76.144	93/02/08	148.042	93/06/16	104.754
93/02/08	83.182	93/02/09	80.808	93/02/11	76.129	93/02/18	147.847	93/06/23	104.729
93/02/14	83.152	93/02/16	80.783	93/02/18	76.119	93/02/25	147.692	93/06/30	104.904
93/02/21	83.092	93/02/23	80.758	93/02/25	76.089	93/03/04	147.502	93/07/07	104.869
93/02/28	83.032	93/03/02	80.733	93/03/04	76.069	93/03/11	147.297	93/07/14	105.009
93/03/07	82.992	93/03/09	80.713	93/03/11	76.049	93/03/18	147.077	93/07/21	105.139
93/03/14	82.947	93/03/16	80.698	93/03/18	76.029	93/03/25	146.837	93/07/28	105.149
93/03/21	82.882	93/03/23	80.668	93/03/25	75.994	93/04/01	145.587	93/08/04	105.254
93/03/28	82.852	93/03/30	80.648	93/04/08	75.949	93/04/08	145.502	93/08/11	105.254
93/04/04	82.802	93/04/06	80.628	93/04/15	75.934	93/04/15	146.127	93/08/18	105.274
93/04/12	82.747	93/04/13	80.598	93/04/22	75.924	93/04/22	145.902	93/08/25	105.309
93/04/19	82.712	93/04/20	80.583	93/04/25	75.914	93/04/28	146.707	93/09/01	105.329
93/04/26	82.707	93/04/27	80.618	93/05/02	76.004	93/05/05	145.497	93/09/08	105.339
93/05/03	82.662	93/05/04	80.643	93/05/09	75.984			93/09/15	105.339
93/05/10	82.622	93/05/11	80.628	93/05/16	76.014			93/09/22	105.339
93/05/17	82.592	93/05/18	80.618	93/05/23	76.069			93/09/29	105.404
93/05/23	82.572	93/05/25	80.653	93/05/30	76.144			93/10/05	105.389
93/05/31	82.662	93/06/01	80.768	93/06/06	76.044			93/10/13	105.389
93/06/07	82.642	93/06/08	80.913	93/06/14	76.329			93/10/20	105.409
93/06/14	82.432	93/06/15	81.108	93/06/20	76.264			93/11/03	105.369
93/06/21	82.802	93/06/22	81.293	93/06/27	76.799			93/11/10	105.299
93/06/28	82.947	93/06/29	82.018	93/07/04	76.789			93/11/17	105.259
93/07/05	83.152	93/07/06	82.408	93/07/11	77.264			93/11/24	105.249
93/07/12	83.672	93/07/13	82.338	93/07/18	77.564			93/12/01	105.274
93/07/19	84.352	93/07/20	82.723	93/07/25	77.379			93/12/08	105.189
93/07/27	83.942	93/07/27	82.558	93/08/01	77.549			93/12/15	105.274
93/08/02	84.617	93/08/03	82.638	93/08/08	77.489			93/12/22	105.234
93/08/09	84.932	93/08/10	82.718	93/08/15	77.209			93/12/29	105.009
93/08/16	84.987	93/08/17	82.463	93/08/22	76.979			94/01/05	105.289
93/08/23	84.972	93/08/25	82.418	93/08/29	77.214			94/01/12	105.069
93/08/30	85.057	93/09/01	82.553	93/09/05	77.114			94/01/19	105.079
93/09/06	85.002	93/09/07	82.233	93/09/12	76.909			94/01/26	105.054
93/09/13	84.882	93/09/14	81.883	93/09/19	76.724			94/02/02	105.054
93/09/20	84.782	93/09/21	81.673	93/09/26	76.779			94/02/09	104.984
93/09/27	84.672	93/09/28	82.468	93/10/03	77.339				
93/10/04	84.922	93/10/05	82.398	93/10/10	77.009				
93/10/11	84.822	93/10/12	82.168	93/10/17	77.189				
93/10/18	84.877	93/10/19	82.263	93/10/31	76.684				
93/11/01	84.667	93/11/02	81.633	93/11/07	76.729				
93/11/08	84.567	93/11/09	81.643	93/11/21	76.539				
93/11/22	84.232	93/11/16	81.498	93/11/28	76.449				
93/11/29	84.232	93/11/23	81.383	93/12/05	76.374				
93/12/06	84.272	93/11/30	81.283	93/12/12	76.304				
93/12/13	84.202	93/12/07	81.203	93/12/19	76.254				
93/12/20	84.037	93/12/14	81.128	93/12/26	76.219				
93/12/27	83.967	93/12/21	80.948	94/01/02	76.174				
94/01/03	83.897	93/12/28	80.903	94/01/16	76.039				
94/01/10	83.817	94/01/04	80.868	94/01/23	76.069				
94/01/17	83.702	94/01/11	80.813	94/01/30	76.039				
94/01/24	83.712	94/01/18	80.853	94/02/06	76.024				
94/02/07	83.582	94/01/25	80.853						
		94/02/01	80.853						

Table 4.2.18

EX-3 Dangibari		EX-4 Bhagadubba		EX-5 Prithivinagar		EX-6 BALUBARI		EX-9 BIRTABAZAR	
G. L.(mamsl) 96.462		G. L.(mamsl) 74.932		G. L.(mamsl) 87.621		G. L.(mamsl) 75.726		G. L.(mamsl) 119.49	
Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(masl)	Date	W. L.(mamsl)	Date	W. L.(mamsl)
93/03/25	77.842	93/05/12	71.062	93/05/03	74.726	93/05/09	71.446	93/05/10	111.530
93/03/30	77.832	93/05/19	71.032	93/05/10	76.161	93/05/16	71.441	93/05/17	111.570
93/04/06	77.842	93/05/26	71.007	93/05/17	76.481	93/05/23	71.481	93/05/24	111.560
93/04/13	77.822	93/06/02	71.077	93/05/24	76.551	93/05/30	71.531	93/05/31	111.640
93/04/20	77.817	93/06/08	71.157	93/05/31	76.651	93/06/07	71.536	93/06/07	111.710
93/04/27	77.862	93/06/16	71.237	93/06/07	76.706	93/06/13	71.546	93/06/14	111.770
93/05/04	77.857	93/06/23	71.382	93/06/14	76.731	93/06/20	71.551	93/06/21	111.860
93/05/11	77.852	93/06/30	71.572	93/06/21	76.811	93/06/27	71.606	93/06/28	111.980
93/05/18	77.847	93/07/07	71.812	93/06/28	76.871	93/07/04	71.671	93/07/05	112.135
93/05/25	77.847	93/07/14	71.952	93/07/05	77.151	93/07/11	71.691	93/07/12	112.290
93/06/01	77.897	93/07/21	72.112	93/07/12	76.956	93/07/18	71.736	93/07/19	112.335
93/06/08	77.967	93/07/28	72.197	93/07/19	77.041	93/07/25	71.786	93/07/26	112.350
93/06/15	77.972	93/08/04	72.302	93/07/26	77.061	93/08/01	71.861	93/08/02	112.435
93/06/22	78.052	93/08/11	72.367	93/08/02	77.081	93/08/08	71.926	93/08/09	112.485
93/06/29	78.127	93/08/18	72.322	93/08/09	77.161	93/08/15	71.901	93/08/16	112.510
93/07/06	78.247	93/08/25	72.282	93/08/16	77.121	93/08/22	71.966	93/08/24	112.535
93/07/13	78.312	93/09/02	72.292	93/08/23	77.151	93/08/29	72.026	93/08/30	112.530
93/07/20	78.477	93/09/08	72.272	93/08/30	77.181	93/09/05	72.026	93/09/06	112.500
93/07/27	78.487	93/09/15	72.172	93/09/06	77.181	93/09/12	72.061	93/09/13	112.475
93/08/03	78.572	93/09/22	72.062	93/09/13	77.176	93/09/19	72.056	93/09/20	112.470
93/08/10	78.677	93/09/29	72.122	93/09/20	77.196	93/09/26	72.036	93/09/28	112.535
93/08/17	78.707	93/10/06	72.192	93/09/27	77.191	93/10/03	72.126	93/10/04	112.520
93/08/24	78.747	93/10/13	72.172	93/10/04	77.271	93/10/10	72.116	93/10/11	112.530
93/09/01	78.782	93/10/20	72.167	93/10/11	77.251	93/10/17	72.151	93/10/18	112.545
93/09/07	78.762	93/11/03	71.977	93/10/18	77.296	93/10/31	72.131	93/11/01	112.480
93/09/14	78.752	93/11/10	71.892	93/11/01	77.236	93/11/07	72.131	93/11/08	112.435
93/09/21	78.747	93/11/17	71.832	93/11/08	77.236	93/11/21	72.096	93/11/22	112.330
93/09/28	78.872	93/11/24	71.752	93/11/22	77.191	93/11/28	71.971	93/11/29	112.270
93/10/05	78.822	93/12/01	71.692	93/11/29	77.191	93/12/05	72.081	93/12/06	112.235
93/10/12	78.822	93/12/08	71.622	93/12/06	77.226	93/12/12	72.051	93/12/13	112.150
93/10/19	78.852	93/12/15	71.562	93/12/13	77.266	93/12/19	72.031	93/12/20	112.100
93/11/02	78.812	93/12/22	71.497	93/12/20	77.166	93/12/26	72.001	93/12/27	112.050
93/11/09	78.792	93/12/29	71.457	93/12/27	77.136	94/01/02	71.866	94/01/03	112.010
93/11/16	78.782	94/01/05	71.422	94/01/03	77.116	94/01/09	71.966	94/01/10	111.975
93/11/23	78.742	94/01/12	71.382	94/01/10	77.216	94/01/16	71.976	94/01/17	111.980
93/11/30	78.717	94/01/19	71.377	94/01/17	77.116	94/01/23	71.966	94/01/24	111.965
93/12/07	78.697	94/01/26	71.362	94/01/24	77.086	94/01/30	71.926	94/01/31	111.945
93/12/14	78.662	94/02/02	71.347	94/01/31	77.086	94/02/06	71.926	94/02/07	111.945
93/12/21	78.627	94/02/09	71.427	94/02/07	77.011				
93/12/28	78.602								
94/01/04	78.587								
94/01/11	78.577								
94/01/18	78.582								
94/01/25	78.562								
94/02/01	78.547								
94/02/08	78.537								

Table 4.2.19

EX-10 Balubathan	
G. L.(mansl)	90. 202
Date	W. L.(masl)
93/04/25	87. 847
93/05/02	87. 922
93/05/16	87. 897
93/05/23	87. 882
93/05/30	88. 082
93/06/06	88. 307
93/06/14	88. 417
93/06/20	88. 397
93/06/27	88. 777
93/07/04	89. 127
93/07/11	88. 952
93/07/18	89. 192
93/07/25	89. 077
93/08/01	89. 167
93/08/08	89. 212
93/08/15	88. 997
93/08/22	88. 747
93/08/29	88. 987
93/09/05	88. 797
93/09/12	88. 567
93/09/19	88. 472
93/09/26	88. 607
93/10/03	89. 097
93/10/10	88. 747
93/10/17	88. 882
93/10/31	88. 417
93/11/07	88. 432
93/11/21	88. 267
93/11/28	88. 212
93/12/05	88. 167
93/12/12	88. 142
93/12/19	88. 097
93/12/26	88. 067
94/01/02	88. 042
94/01/09	88. 022
94/01/16	88. 057
94/01/23	88. 062
94/01/30	88. 027
94/02/06	88. 222

EX-12 Gherabari	
G. L.(mansl)	71. 742
Date	W. L.(masl)
93/04/14	67. 887
93/04/28	67. 697
93/05/05	67. 707
93/05/12	67. 707
93/05/19	67. 727
93/05/26	67. 732
93/06/02	67. 817
93/06/09	67. 917
93/06/16	68. 067
93/06/23	68. 232
93/06/30	68. 457
93/07/07	68. 827
93/07/14	68. 827
93/07/21	69. 167
93/07/28	69. 177
93/08/04	69. 327
93/08/11	69. 417
93/08/18	69. 247
93/08/25	69. 197
93/09/02	69. 267
93/09/08	69. 157
93/09/15	69. 007
93/09/22	68. 867
93/09/29	69. 107
93/10/06	69. 172
93/10/13	69. 057
93/10/20	69. 097
93/11/03	68. 782
93/11/10	68. 712
93/11/17	68. 647
93/11/24	68. 567
93/12/01	68. 507
93/12/08	68. 442
93/12/15	68. 387
93/12/22	68. 327
93/12/29	68. 287
94/01/05	68. 247
94/01/12	68. 207
94/01/19	68. 222
94/01/26	68. 212
94/02/02	68. 192
94/02/09	68. 227

EX-13 Pathamari	
G. L.(mansl)	66. 547
Date	W. L.(masl)
93/05/02	66. 442
93/05/09	66. 462
93/05/16	66. 462
93/05/23	65. 037
93/05/30	65. 162
93/06/07	65. 267
93/06/13	65. 422
93/06/20	65. 437
93/06/27	65. 857
93/07/04	65. 967
93/07/11	66. 047
93/07/18	66. 417
93/07/25	66. 437
93/08/01	66. 447
93/08/08	66. 497
93/08/15	66. 492
93/08/22	66. 287
93/08/29	66. 407
93/09/05	66. 277
93/09/12	66. 167
93/09/19	66. 037
93/09/26	65. 952
93/10/03	66. 202
93/10/10	66. 187
93/10/17	66. 407
93/10/31	65. 902
93/11/07	65. 812
93/11/21	65. 662
93/11/28	65. 647
93/12/05	65. 622
93/12/12	65. 602
93/12/19	65. 452
93/12/26	65. 402
94/01/02	65. 357
94/01/09	65. 312
94/01/16	65. 347
94/01/23	65. 347
94/01/30	65. 302
94/02/06	65. 352

EX-14 Surunga	
G. L.(mansl)	101. 064
Date	W. L.(masl)
93/05/16	98. 899
93/05/23	98. 909
93/05/30	99. 094
93/06/06	99. 444
93/06/14	99. 314
93/06/20	99. 249
93/06/27	99. 654
93/07/04	99. 669
93/07/11	99. 459
93/07/18	99. 979
93/07/25	99. 774
93/08/01	99. 964
93/08/08	99. 949
93/08/15	99. 644
93/08/22	99. 344
93/08/29	99. 684
93/09/05	99. 464
93/09/12	99. 179
93/09/19	99. 119
93/09/26	99. 239
93/10/03	99. 899
93/10/10	99. 549
93/10/17	99. 629
93/10/31	99. 094
93/11/07	99. 149
93/11/21	98. 974
93/11/28	98. 934
93/12/05	98. 894
93/12/12	98. 864
93/12/19	98. 849
93/12/26	98. 864
94/01/02	98. 869
94/01/09	98. 834
94/01/16	98. 884
94/01/23	98. 889
94/01/30	98. 849
94/02/06	98. 859

EX-15 Jyamirgadi	
G. L.(mansl)	107. 579
Date	W. L.(masl)
93/04/15	105. 349
93/04/29	105. 569
93/05/06	105. 574
93/05/13	105. 569
93/05/20	105. 599
93/05/27	105. 664
93/06/03	105. 949
93/06/10	106. 159
93/06/17	106. 104
93/06/21	106. 389
93/06/28	106. 914
93/07/08	106. 879
93/07/15	106. 634
93/07/22	107. 214
93/07/29	107. 079
93/08/05	107. 599
93/08/12	107. 094
93/08/19	106. 964
93/08/26	106. 964
93/09/02	106. 984
93/09/09	106. 749
93/09/16	106. 734
93/09/23	106. 814
93/09/30	107. 029
93/10/07	106. 979
93/10/14	106. 989
93/10/21	106. 819
93/11/04	106. 349
93/11/11	106. 309
93/11/25	106. 014
93/12/02	105. 979
93/12/09	105. 929
93/12/16	105. 964
93/12/23	105. 919
93/12/30	105. 914
94/01/06	105. 804
94/01/13	105. 899
94/01/20	106. 769
94/01/27	105. 979
94/02/03	106. 004
94/02/10	105. 939

Table 4.2.20

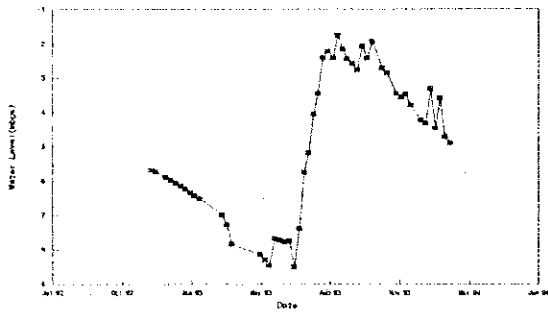
WS-5 Prithivinagar  
G. L.(mamsl) 83.165

Date	W. L.(masl)
93/05/03	74.865
93/05/10	74.840
93/05/17	74.815
93/05/23	74.760
93/05/31	74.810
93/06/07	74.885
93/06/14	74.945
93/06/21	75.055
93/06/28	75.210
93/07/05	75.035
93/07/12	75.945
93/07/19	76.190
93/07/26	76.615
93/08/02	76.825
93/08/09	77.015
93/08/16	76.995
93/08/23	76.875
93/08/30	76.985
93/09/06	76.945
93/09/13	76.865
93/09/20	76.715
93/09/27	76.580
93/10/04	76.855
93/10/11	76.760
93/10/18	76.835
93/11/01	76.590
93/11/08	76.465
93/11/22	76.225
93/11/29	76.005
93/12/06	76.655
93/12/13	76.110
93/12/20	75.970
93/12/27	75.885
94/01/03	75.860
94/01/10	75.910
94/01/17	75.855
94/01/24	75.470
94/01/31	75.510
94/02/07	75.470

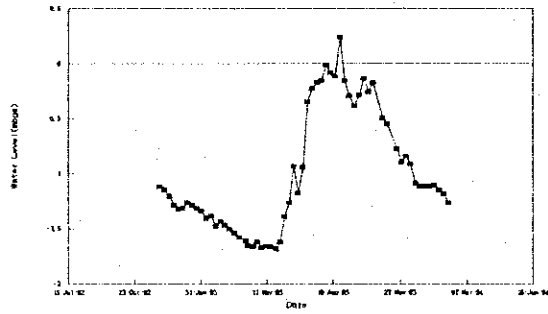
WS-14 Sanischare  
G. L.(mamsl) 149.462

Date	W. L.(masl)
93/05/12	147.792
93/05/19	147.822
93/05/26	147.817
93/06/02	147.962
93/06/09	148.032
93/06/16	148.007
93/06/23	148.187
93/06/30	148.597
93/07/07	149.162
93/07/14	148.987
93/07/21	149.717
93/07/28	149.322
93/08/04	149.492
93/08/11	149.467
93/08/18	149.422
93/08/25	149.227
93/09/02	149.172
93/09/08	149.062
93/09/15	149.072
93/09/22	148.982
93/09/29	148.977
93/10/06	149.212
93/10/13	149.092
93/10/20	149.107
93/11/03	148.687
93/11/10	148.652
93/11/17	148.417
93/11/24	148.472
93/12/01	148.402
93/12/08	148.322
93/12/15	148.377
93/12/22	148.212
93/12/29	148.212
94/01/05	148.087
94/01/19	148.297
94/01/26	148.222
94/02/02	148.247
94/02/09	148.237

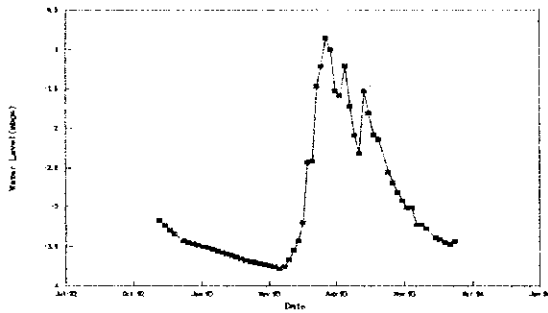
STW-1 PRITHIVINAGAR



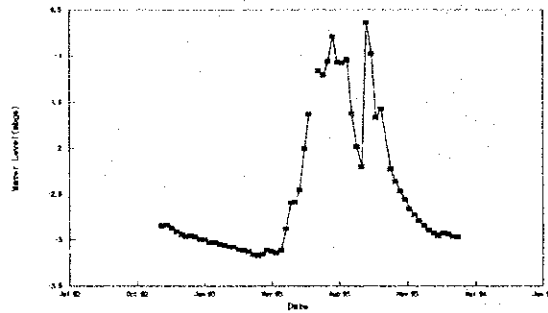
STW-2 MAHESPUR



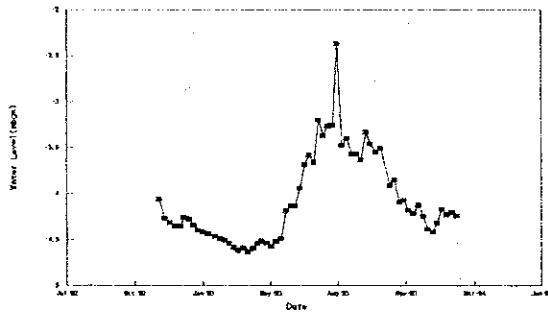
STW-3 GHERABARI



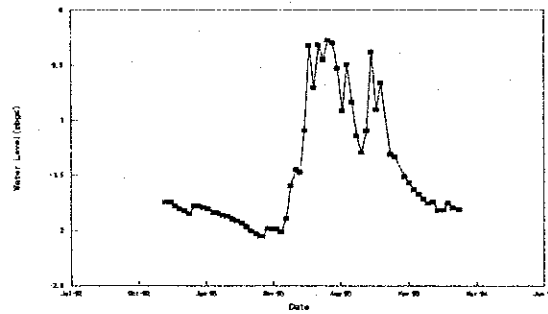
STW-4 PHULBARI



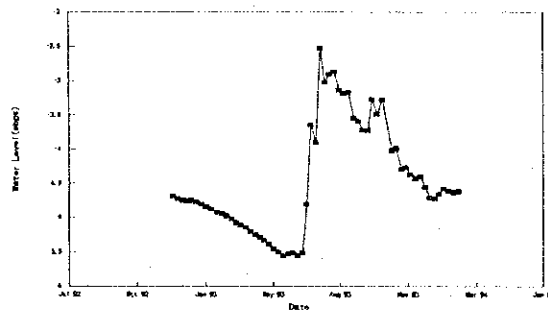
STW-11 BUTTABARI



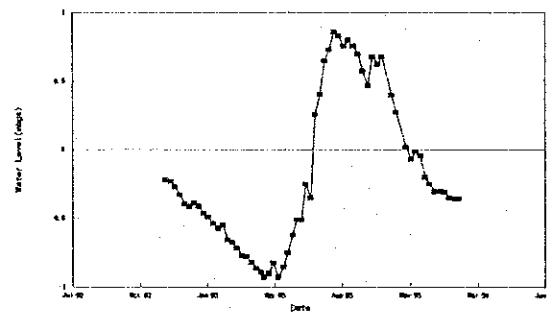
STW-12 BALUBATHAN



STW-13 SANISHCHARE

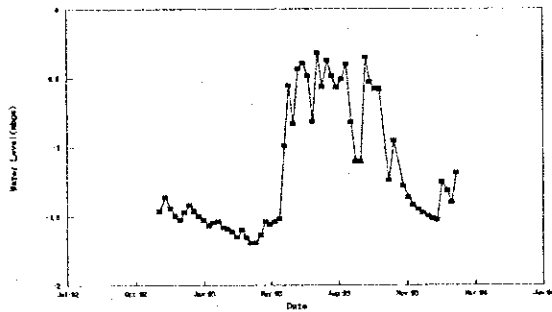


STW-14 SANGAMBUSTI

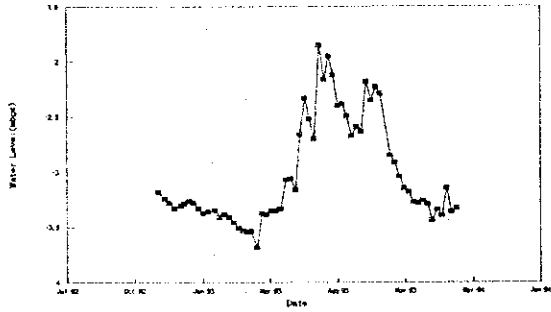




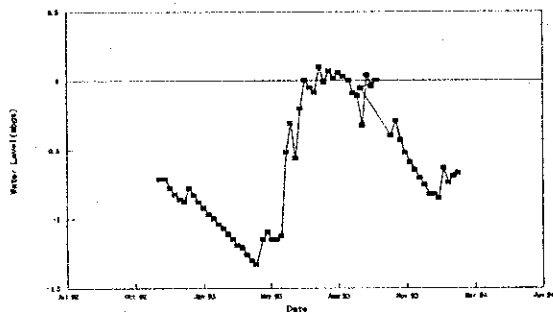
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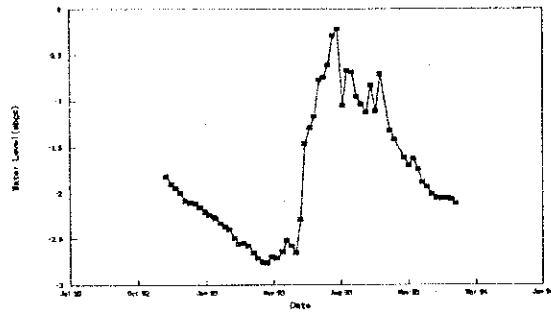
STW-17 SATTIGHATTA



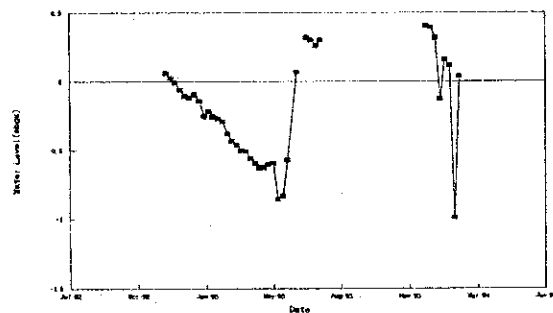
STW-19 GOLDHAP



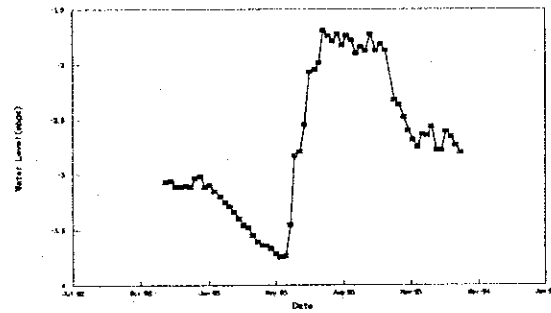
STW-20 KECHANA



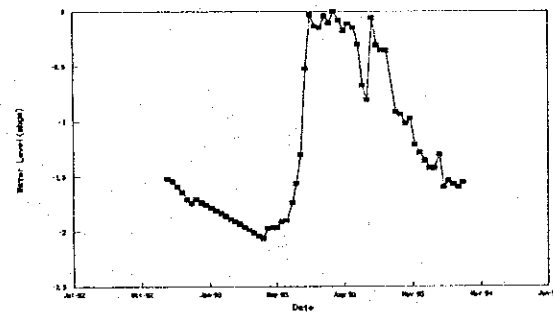
STW-21 JALTHAL



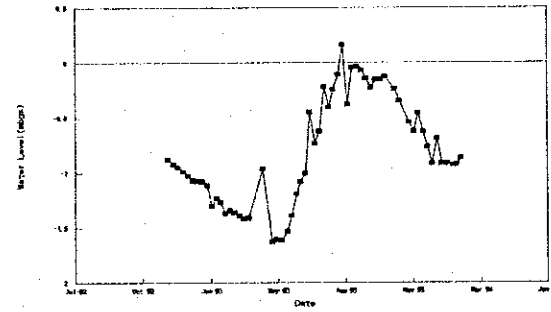
STW-22 PRAKASHPUR



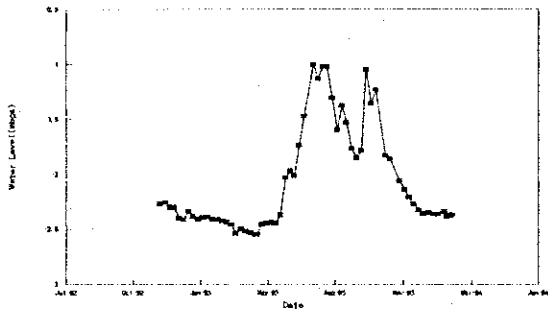
STW-J1 RAGARH



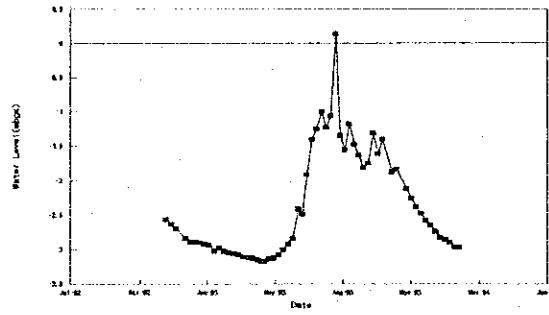
STW-J2 BALUBARI



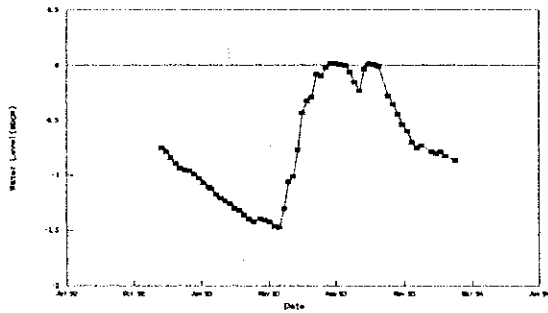
STW-J4 GOHIKHADI



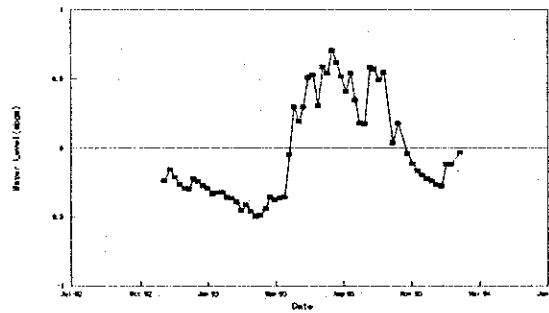
STW-J5 KUMARKHOD



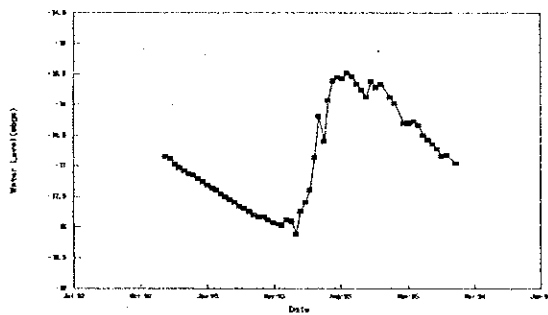
JP-9 GOLDHAP



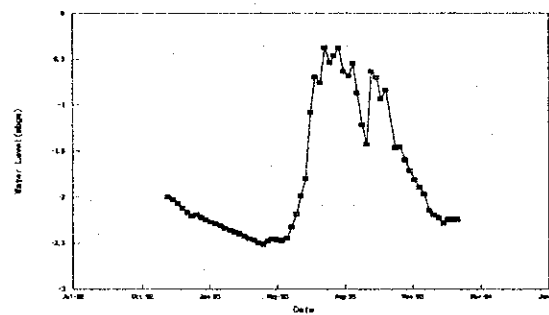
JP-10 GHAILADUBBA



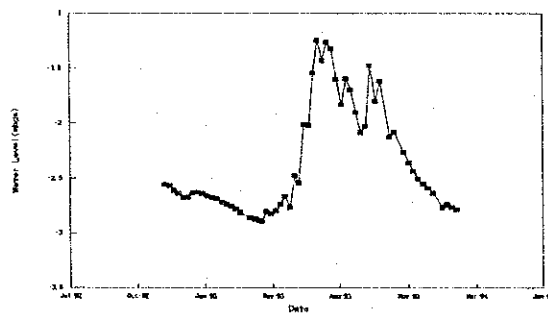
JP-11 PRITHVINAGAR



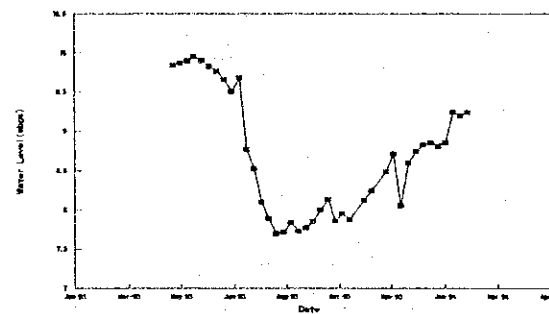
JP-12 RAJGADHAT



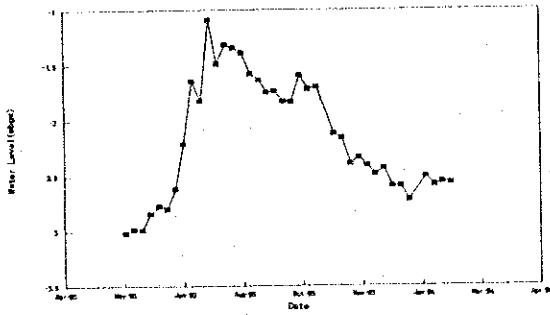
JP-13 TANGANDUBBA



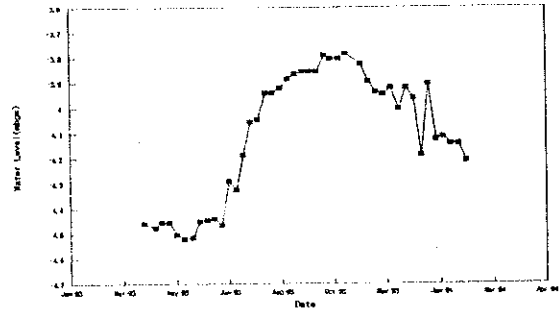
WS-5 PRITHVINAGAR



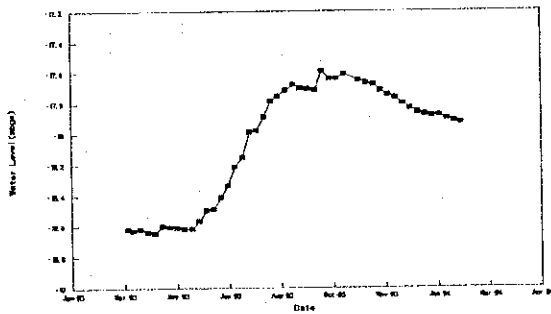
**WS-14 SANISCHARE**



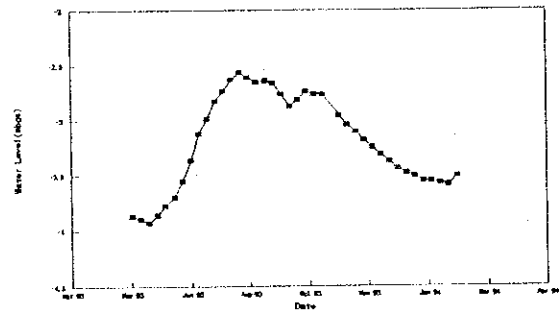
**EX-2 GARAMUNI**



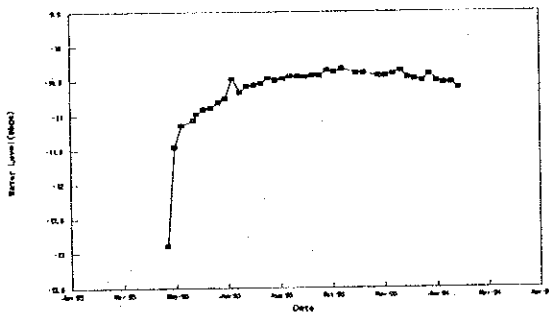
**EX-3 DANGIBARI**



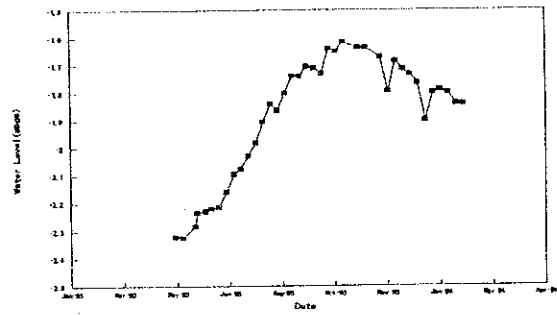
**EX-4 BHAGADUBBA**



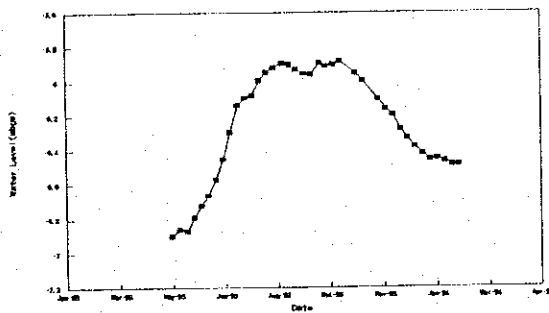
**EX-5 PRITHVINAGAR**



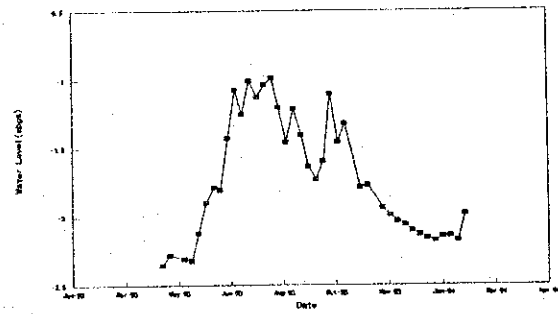
**EX-6 BALUBARI**



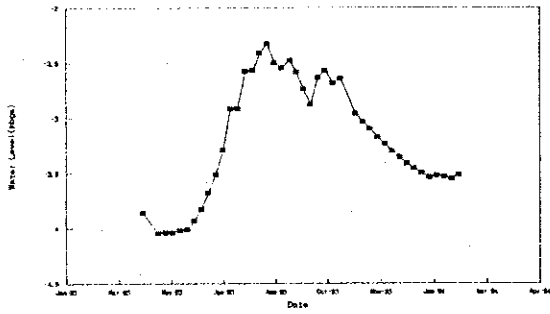
**EX-9 BIRTAHAZAR**



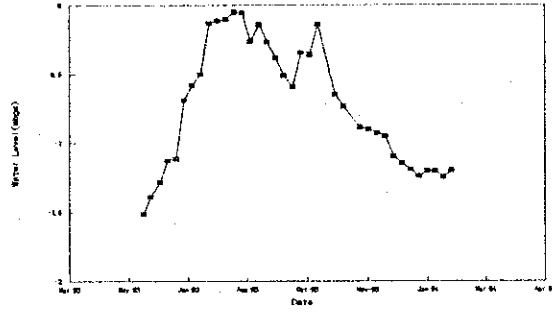
**EX-10 BALUBATHAN**



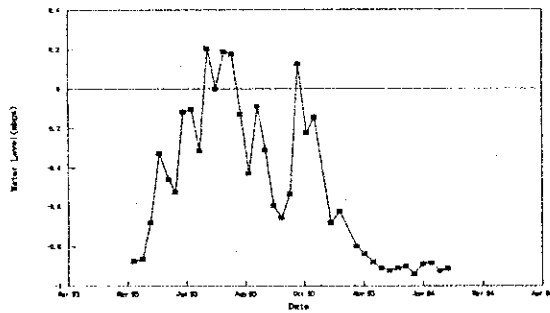
**EX-12 GHERABARI**



**EX-13 PATHAMARI**



**EX-14 TULSIBARI**



**EX-15 JYAMIRGADI**

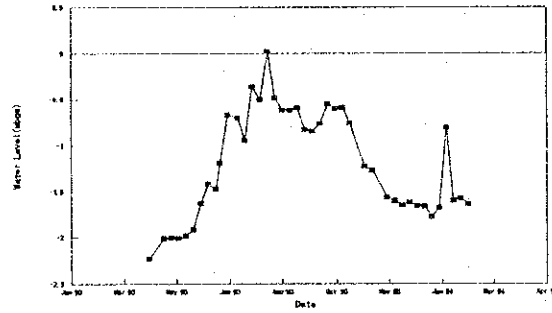


Table 4.2.21  
WATER DISCHARGE MEASUREMENT OF EX-WELLS in SECOND

EX-1 PATHARIA				
DATE	1ST-R	2ND-R	3RD-R	AVER-R
93/05/20	13.0	14.0	14.0	13.7
93/06/04	14.0	14.0	13.0	13.7
93/06/21	13.0	14.0	14.2	13.7
93/07/06	13.0	13.0	13.5	13.2
93/07/21	14.1	14.2	13.2	13.8
93/08/05	14.3	13.3	14.3	14.0
93/08/20	11.1	11.2	11.2	11.2
93/09/01	11.3	11.2	11.3	11.3
93/09/16	11.4	11.2	12.0	11.5
93/10/03	11.3	11.5	11.6	11.5
93/10/10	11.2	11.5	11.6	11.4
93/10/26	11.3	11.3	11.4	11.3
93/11/05	11.3	11.4	11.2	11.3
93/11/28	11.4	12.0	12.3	11.9
93/12/06	11.3	11.5	11.4	11.4
93/12/19	11.1	11.2	11.2	11.1
94/01/06	11.4	11.8	11.9	11.7
94/02/06	11.4	11.5	11.7	11.5

EX-8 BHIMNAGER				
DATE	1ST-R	2ND-R	3RD-R	AVER-R
93/05/21	4.3	4.2	4.2	4.2
93/06/04	4.3	5.0	5.0	4.8
93/06/21	4.3	4.3	5.0	4.5
93/07/06	5.0	5.2	5.0	5.1
93/07/21	5.0	5.0	5.2	5.1
93/08/05	4.0	4.2	4.4	4.2
93/08/20	4.2	4.1	4.3	4.2
93/09/01	3.8	3.9	3.7	3.8
93/09/16	3.9	3.8	3.8	3.8
93/10/05	3.4	3.3	3.4	3.4
93/10/20	3.1	3.7	3.9	3.6
93/11/02	3.1	3.9	3.7	3.6
93/11/19	3.1	3.1	3.1	3.1
93/12/03	3.1	3.1	3.1	3.1
93/12/21	3.2	3.3	3.3	3.2
94/01/03	3.2	3.2	3.3	3.2
94/02/07	3.6	3.3	3.9	3.6

EX-7 HALDIBARI				
DATE	1ST-R	2ND-R	3RD-R	AVER-R
93/05/27	25.0	25.0	25.0	25.0
93/06/24	22.4	22.4	22.7	22.5
93/07/22	15.7	15.3	15.5	15.5
93/08/26	13.4	13.4	13.6	13.5
93/09/09	13.8	13.9	13.7	13.8
93/09/23	14.5	14.4	14.5	14.4
93/10/07	14.0	14.1	14.1	14.1
93/10/21	14.0	13.9	14.0	14.0
93/11/04	14.3	14.2	14.2	14.2
93/11/18	15.0	15.3	15.1	15.1
93/12/02	15.9	16.0	16.0	15.9
93/12/16	17.2	17.2	17.2	17.2
93/12/30	18.4	18.4	18.3	18.4
94/01/13	19.3	19.4	19.4	19.4
94/02/10	20.5	20.5	20.5	20.5

EX-11 BALUA-KHOLA				
DATE	1ST-R	2ND-R	3RD-R	AVER-R
93/05/28	7.0	8.0	9.0	8.0
93/06/28	7.0	8.0	9.0	8.0
93/07/04	6.2	6.2	6.2	6.2
93/07/21	6.2	6.2	6.2	6.2
93/08/05	6.2	6.2	6.2	6.2
93/08/20	6.2	6.2	6.3	6.2
93/09/01	5.7	6.1	5.7	5.8
93/09/16	5.8	6.0	5.1	5.6
93/10/02	5.9	6.0	5.1	5.7
93/10/19	6.2	6.1	6.0	6.1
93/11/02	5.2	5.4	5.6	5.4
93/11/17	5.3	5.4	5.7	5.5
93/12/04	5.3	5.3	5.4	5.3
93/12/21	6.1	6.9	6.9	6.6
94/01/05	6.0	6.1	6.0	6.0
94/01/22	6.1	6.0	6.0	6.0
94/02/08	7.0	6.7	6.1	6.6

## 4.2.5.

## WATER UTILIZATION SURVEY

Village Dev. Brd: Goldhap

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No. : 465

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	0	0	0	0	14	4.3	2.4	10,420	14	0	1	3	0	14
2	22	2	0	52	4	8.6	2.1	48,070	76	0	4	17	1	79
3	3	0	0	45	16	4.2	1.9	30,200	57	0	0	48	0	64
4	14	2	0	57	0	8.5	1.4	37,980	71	0	0	36	0	75
5	0	0	0	46	7	4.0	1.8	16,520	47	0	1	40	0	53
6	4	5	1	33	6	7.1	1.7	20,690	44	0	0	22	2	49
7	0	0	0	22	30	3.6	2.0	20,550	47	0	1	19	0	52
8	0	0	0	42	0	3.4	1.5	12,860	27	0	1	35	0	42
9	0	0	0	31	6	4.8	2.1	19,370	36	0	0	31	0	37
Total	43	9	1	328	83			216,660	419	0	8	251	3	465
Ave.						5.4	1.9							

## WATER UTILIZATION SURVEY

Village Dev. Brd: Haldibari

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No. : 476

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	8	12	3	25	1	9.9	2.7	16,140	45	2	18	19	2	49
2	10	7	7	39	3	7.9	1.8	24,685	58	4	21	28	5	66
3	7	10	6	20	0	11.9	3.0	21,785	33	5	9	14	3	43
4	9	4	0	0	6	10.4	2.6	7,120	13	2	7	6	2	19
5	7	2	1	0	19	8.8	2.1	12,535	25	1	2	18	2	29
6	6	14	1	0	28	8.1	2.1	19,715	46	0	6	32	1	49
7	8	13	0	5	44	6.8	1.9	29,780	68	0	12	45	0	70
8	12	6	0	55	0	6.2	2.0	24,930	69	0	22	39	0	73
9	15	4	1	57	1	6.5	1.6	46,585	62	0	22	31	2	78
Total	82	72	19	201	102			203,275	419	14	119	232	17	476
Ave.						8.5	2.2							

## WATER UTILIZATION SURVEY

Village Dev. Brd: Maheshpur

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No. : 497

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	83	8	7	0	169	8.9	2.0	98,570	250	10	3	167	6	267
2	26	4	10	0	41	10.4	2.2	643,260	79	4	0	15	0	81
3	5	7	0	0	2	12.3	2.3	6,250	14	0	0	7	0	14
4	4	0	0	0	3	10.6	2.2	6,360	7	0	0	0	0	7
5	13	4	2	0	13	14.1	3.4	13,990	31	2	0	11	0	32
6	9	0	1	0	16	9.5	2.1	13,180	25	1	0	13	0	26
7	6	0	6	0	13	12.8	2.7	10,077	19	6	0	4	0	25
8	15	1	5	0	11	12.1	2.1	15,500	27	5	0	16	0	32
9	8	0	0	0	5	11.0	2.7	7,860	13	0	0	9	0	13
Total	169	24	31	0	273			814,048	465	28	3	242	6	497
Ave.						11.3	2.4							

WATER UTILIZATION SURVEY

Village Dev. Brd: Gherabari

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No.: 280

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House nos.
	H.P.	R.P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	6	0	0	0	8	10.5	3.2	13,650	10	0	0	2	0	14
2	3	0	0	0	8	6.4	2.6	10,000	10	0	0	3	0	11
3	13	0	0	0	15	10.1	2.5	52,500	22	0	4	2	0	28
4	6	0	0	0	6	10.1	2.0	13,150	11	0	0	0	0	12
5	16	0	0	0	9	7.9	2.4	19,210	21	0	0	1	0	25
6	55	17	0	0	26	10.9	3.0	94,500	93	0	1	45	3	98
7	21	0	0	0	7	11.6	2.6	28,700	27	0	0	6	0	28
8	15	0	0	0	12	10.0	2.2	25,250	23	0	3	11	0	27
9	21	1	0	0	15	11.0	2.3	33,280	32	0	2	1	0	37
Total	156	18	0	0	106			290,240	249	0	10	71	3	280
Ave.						9.8	2.5							

WATER UTILIZATION SURVEY

Village Dev. Brd: Jalthal

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No.: 850

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	3	3	1	0	44	6.4	2.1	24,130	49	1	2	44	0	51
2	4	1	0	0	60	5.1	2.2	23,980	65	0	2	63	0	65
3	4	0	0	0	54	4.7	2.9	19,446	58	0	1	53	0	58
4	19	0	9	0	63	8.7	2.7	25,940	77	5	5	68	9	91
5	5	0	0	0	74	5.0	2.3	19,355	70	0	8	47	6	79
6	16	5	2	0	65	6.3	2.5	0	83	0	4	72	5	88
7	22	1	10	0	114	13.1	2.6	56,773	141	2	11	109	2	147
8	13	2	1	0	159	5.5	2.7	52,160	172	0	3	176	1	175
9	5	0	0	0	91	5.5	3.4	29,050	91	0	0	84	5	96
Total	91	12	23	0	724			250,834	806	8	36	716	28	850
Ave.						6.7	2.6							

WATER UTILIZATION SURVEY

Village Dev. Brd: Kechana

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No.: 221

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	17	0	2	0	15	10.0	3.1	13,410	31	2	7	24	0	34
2	8	0	5	2	11	24.4	3.5	7,950	20	0	2	19	3	26
3	7	1	3	0	14	9.5	3.1	0	22	0	4	17	0	25
4	7	0	3	0	9	14.9	5.2	4,360	10	1	10	4	3	19
5	7	0	6	0	4	16.5	4.4	3,370	8	0	6	6	4	17
6	9	0	1	0	2	14.0	4.4	5,600	9	0	6	3	0	12
7	7	0	1	0	13	11.0	2.8	7,030	15	0	3	9	0	21
8	4	0	0	0	25	6.4	2.8	10,880	27	0	13	13	0	29
9	12	0	4	0	22	10.8	3.1	12,060	30	0	4	28	1	38
Total	78	1	25	2	115			64,660	172	3	55	123	11	221
Ave.						13.0	3.6							

WATER UTILIZATION SURVEY

Village Dev. Brd: Rajgad

Ward No. : 1/2/3/4/5/6/7/8 Total House No.: 1,041

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H. P.	R. P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	65	6	1	0	49	8.8	11.1	51,120	88	13	4	40	0	110
2	40	0	16	0	26	9.0	2.4	41,000	58	15	17	17	1	80
3	107	0	11	0	22	8.8	2.5	52,770	126	7	10	46	4	140
4	59	0	19	0	23	8.1	2.3	66,290	80	15	11	31	0	100
5	104	1	12	0	22	8.2	2.8	51,750	115	11	7	50	0	139
6	191	0	12	0	71	7.6		104,728	240	10	25	80	0	275
7	30	0	9	0	2	11.7	3.2	21,830	32	9	2	25	0	41
8	100	0	22	0	34	8.8	2.8	61,710	129	21	14	44	0	156
Total	696	7	102	0	249			451,198	868	101	90	333	5	1,041
Ave.						8.9	3.9							

WATER UTILIZATION SURVEY

Village Dev. Brd: Chakchaki

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No.: 871

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H. P.	R. P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	23	0	8	0	8	10.3	2.9	13,630	33	0	8	1	0	39
2	9	0	5	0	23	9.4	3.7	19,570	31	0	6	15	0	37
3	49	3	6	0	17	8.5	3.1	28,450	62	6	6	7	0	75
4	41	8	13	0	34	8.0	2.7	36,650	79	8	7	46	0	96
5	26	0	11	0	13	9.0	2.2	16,850	33	6	12	14	0	49
6	79	0	18	0	36	8.6		42,410	101	10	10	27	0	133
7	154	6	19	0	141	7.6	9.5	104,602	270	4	18	98	2	319
8	42	0	7	0	13	8.1	3.2	18,390	50	6	4	2	0	62
9	53	0	2	0	6	8.9	3.5	19,360	54	1	5	20	0	61
Total	476	17	89	0	291			299,912	713	41	76	230	2	871
Ave.						8.7	3.8							

WATER UTILIZATION SURVEY

Village Dev. Brd: Chandragadhi

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No.: 642

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H. P.	R. P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	36	2	0	23	33	8.3	2.2	44,160	88	0	2	33	0	94
2	20	2	3	18	1	10.2	2.4	39,850	35	5	5	21	0	44
3	24	23	1	57	0	8.1	2.7	53,525	90	6	31	39	1	105
4	4	3	4	22	0	9.0	2.5	26,320	29	4	0	17	0	33
5	0	0	9	31	0	9.2	1.7	18,230	32	1	0	31	0	39
6	33	6	0	34	12	9.4	1.9	27,710	81	3	9	37	0	85
7	1	0	0	11	0	6.2	1.8	4,175	12	0	0	5	0	12
8	55	10	4	5	84	9.5	2.1	60,830	138	5	2	80	1	147
9	1	12	1	69	0	7.5	1.8	49,250	77	4	0	62	0	83
Total	174	58	22	270	130			324,050	582	28	49	325	2	642
Ave.						8.6	2.1							



WATER UTILIZATION SURVEY

Village Dev. Brd: Bhadrapur

Ward No. : 3/4/5/6/7/10/11/14 Total House No.: 174

Word No.	Type of Pump						Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe	Dri				Irr	Far	Cat	Oth		
3	8	0	0	0	14	8.4	2.5	11,610	22	0	0	12	0	22	
4	4	0	0	0	12	8.9	1.9	5,470	16	0	0	8	0	16	
5	16	2	0	0	10	7.8	1.9	10,400	27	1	0	9	0	28	
6	9	0	0	0	11	9.3	1.9	7,940	20	0	0	3	0	20	
7	14	0	0	0	5	10.1	1.9	3,740	19	0	0	2	0	19	
10	14	0	1	0	10	8.8	1.9	12,180	24	1	0	14	0	25	
11	9	0	3	0	26	7.3	1.8	7,500	33	3	0	5	2	38	
14	1	0	5	0	0	15.6	2.6	150	2	3	0	1	0	6	
Total	75	2	9	0	88			58,990	163	8	0	54	2	174	
Ave.						9.5	2.1								

WATER UTILIZATION SURVEY

Village Dev. Brd: Balubari

Ward No. : 1/2/3/4/5/6/7/8/9 Total House Nos.: 292

Ward No.	Type of Pump						Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe	Dri				Irr	Far	Cat	Oth		
1	17	0	1	0	19	9.3	1.5	17,960	35	1	1	31	0	37	
2	13	1	2	0	27	11.6	1.5	18,499	36	3	6	28	3	43	
3	12	6	0	3	20	10.0	2.7	20,625	36	0	0	28	4	41	
4	7	0	0	3	9	8.6	1.7	10,070	18	0	1	16	0	19	
5	6	0	1	0	8	10.8	2.2	8,630	15	0	1	13	0	15	
6	10	1	1	0	23	9.8	1.9	15,050	31	1	4	33	1	35	
7	4	0	0	0	8	8.1	2.3	5,930	11	0	0	11	1	12	
8	12	1	0	0	20	10.0	1.8	20,540	33	0	3	31	0	33	
9	20	1	0	0	36	9.7	1.9	27,120	52	1	4	45	0	57	
Total	101	10	5	6	170			144,424	267	6	20	236	9	292	
Ave.						9.8	1.9								

WATER UTILIZATION SURVEY

Village Dev. Brd: Baniyani

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No.: 334

Word No.	Type of Pump						Depth (m)	SWL (m)	Consum. (l/day)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe	Dri				Irr	Far	Cat	Oth		
1	4	0	0	0	10	10.48	2.37	6,450	14	0	0	4	0	14	
2	19	4	0	0	30	8.79	1.31	16,620	52	1	0	3	0	51	
3	12	2	1	0	19	9.25	1.75	9,790	33	1	0	9	0	34	
4	16	9	1	0	12	11.69	1.73	13,650	37	2	0	3	0	38	
5	8	2	0	0	15	8.74	1.83	7,100	25	0	0	4	0	25	
6	17	2	1	0	11	10.35	2.12	8,510	30	1	0	4	0	31	
7	16	5	1	0	7	10.26	1.91	9,860	29	0	0	4	0	29	
8	34	3	0	0	39	9.18	1.93	28,380	74	2	0	15	0	76	
9	14	4	0	0	18	8.79	1.54	10,452	36	0	0	0	0	36	
Total	140	31	4	0	161			110,812	330	7	0	46	0	334	
Ave.						9.73	1.83								

WATER UTILIZATION SURVEY

Village Dev. Brd: Pathamari

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No. : 122

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	8	0	1	0	16	8.9		12,200	18	0	2	3	1	25
2	4	0	0	0	4	9.0		5,420	8	0	0	0	0	8
3	7	0	0	0	1	13.5		4,820	6	0	1	3	0	8
4	5	0	0	0	7	9.4		15,350	9	0	1	5	0	12
5	7	0	0	0	4	12.4		7,240	9	0	3	0	0	11
6	10	0	1	0	8	11.8		14,310	15	0	1	1	0	19
7	4	0	2	0	7	13.7		8,910	8	2	1	3	0	13
8	8	0	0	0	8	11.8		9,610	11	0	0	2	0	16
9	5	0	0	0	5	11.5		8,700	7	0	4	0	0	10
Total	58	0	4	0	60			86,560	91	2	13	17	1	122
Ave.						11.3								

WATER UTILIZATION SURVEY

Village Dev. Brd: Pathariya

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No. : 467

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	26	8	6	0	22	9.1	4.2	20,143	49	4	12	40	3	62
2	11	4	8	0	10	10.1	3.8	12,385	24	1	6	23	8	33
3	3	14	0	0	5	13.4	2.8	10,035	22	0	0	22	0	22
4	15	21	12	0	20	14.1	3.1	21,545	51	3	6	50	7	68
5	2	4	3	0	22	8.3	3.1	13,280	28	3	2	25	0	31
6	1	0	0	0	9	6.3		4,050	9	0	0	9	0	10
7	3	8	2	0	42	6.9	3.0	25,735	53	1	2	50	1	55
8	4	10	32	1	83	14.0	3.0	42,846	94	1	31	89	27	130
9	7	9	5	0	35	10.2	3.3	25,122	50	0	1	45	4	56
Total	72	78	68	1	248			175,141	380	13	60	353	50	467
Ave.						10.3	3.3							

WATER UTILIZATION SURVEY

Village Dev. Brd: Prithvinagar

Ward No. : 1/2/3/4/5/6/7/8/9 Total House No. : 1,061

Word No.	Type of Pump					Depth (m)	SWL (m)	Consum. (l/d)	Purpose					House Nos.
	H.P.	R.P.	STW	DTW	Othe				Dri	Irr	Far	Cat	Oth	
1	4	50	6	3	19	12.5	2.6	30,873	73	9	10	43	5	82
2	5	60	14	0	17	13.0	4.1	30,950	81	14	13	45	12	96
3	2	85	12	0	8	15.2	5.8	29,820	93	13	14	71	8	107
4	22	41	1	0	110	8.2	2.2	49,172	155	10	5	51	17	174
5	33	81	7	0	64	12.1	4.1	120,430	179	4	2	81	0	185
6	11	35	8	0	14	12.5	4.2	19,640	60	8	0	18	0	68
7	21	106	14	0	21	10.8	2.8	37,190	150	13	0	19	1	162
8	13	45	11	0	21	11.0	2.5	29,480	79	11	0	32	0	90
9	21	33	3	0	40	8.7	1.7	22,500	93	3	0	23	0	97
Total	132	536	76	3	314			370,055	963	85	44	383	43	1,061
Ave.						11.5	3.3							