

BASELINE SURVEY ANALYSIS REPORT

- NEER NIRMAL PARIYOJANA, DPMU HAILAKANDI

2017



1. Project Background :

Based on the parameters of piped water supply and household water connection, GOI identified Assam, Bihar, Jharkhand and U.P. as the four most lagging states in the country. To alleviate backwardness in water supply & sanitation sector, GOI approached the World Bank support in Rural Water Supply & Sanitation Project (RWSSP) covering these four states. Accordingly 1 bn dollar project has been devised with a share of US \$500 million each on GOI and the World Bank. Out of the Government of India Share, Corresponding State Share would be borne by the respective share. 7th Feb 2013 a MOU was signed between World Bank and GOI for implementation through DBOT mode. Supplying of 70 LPCD water in 24x7 bases. The project also covers Sanitation, SLWM component through Capacity Building and monitoring activity. For this activity SPMU has been established and district level DPMU also functioning.

Government of Assam through Public Health Engineering Department is implementing Neer Nirmal Pariyojana (NNP) with assistance from The Ministry of Drinking Water and Sanitation (MoDWS) and the World Bank. Within the scope of the project, Assam has undertaken seven Large Multi-Village Schemes (LMVS) covering part of the districts of Kamrup (M), Jorhat, Hailakandi, Sonitpur, Sivasagar, Morigaon and Bongaigaon of which first three districts are taken up in the first phase which includes Water Supply, Sanitation, SLWM with total beneficiary participation. The project would envisage district-wide approach.

1. Objective :

The objective of the NNP project is to improve piped water supply and sanitation services for rural communities in the target pilot districts of Jorhat, Kamrup (M) and Hailakandi through decentralized service delivery system. It lays emphasis on the quality and sustainability as well as time bound decentralized service delivery systems. It lays emphasis on quality and sustainability as well as time bound implementation. To place Gaon Panchayat and community in the central role, MVWSCs (Multi Village Water & Sanitation Committee) and GPWSCs (Gaon Panchayat Water & Sanitation Committee) have been formed.

- Clearly defining the institutional arrangements, roles and responsibilities at various levels based on decentralized delivery models.
- Strengthening of capacities of the entire key stakeholder in planning, designing, development, O&M of water and sanitation services and Solid Liquid Water Management.
- Strengthening of the state level policy and planning activities in RWSSP sector.
- Convergence of water, sanitation and environmental sanitation so as to achieve good and adequate water for all, open defecation free villages and clean and hygienic surroundings.

To achieve the goal of the NNP project enhanced community ownership through token community contribution towards capital expenditure is envisaged. Community contribution will



form about 1% of the total Project cost. The World Bank will contribute 50 % of the project cost, Government of India will contribute 44.5% and the Government of Assam will contribute 4.5% of the total project cost.

In addition to that, The Government of India and the World Bank on **March 30, 2016** signed a US\$1.5 billion loan agreement for the **Swachh Bharat Mission (SBM) Support Operation Project** to support the Government of India in its efforts to ensure that all citizens in the rural areas have access to improved sanitation with a focus on changing behavior and eliminating the practice of open defecation by 2019.

4. Goal of the Project:-

1. The project is aimed to provide quality drinking water to the people on the basis of 24x7 @ 70lpcd through household connections.
2. To ensure peoples participation at all level in the project area for sustainability.
3. To eradicate open defecation.
4. To adopt all measures for improvement of environmental sanitation including SLW M.

5) A Brief about Project in Hailakandi District :

Hailakandi district is situated in the southernmost part of Assam. The distance of the state capital Guwahati from the district Head Quarter is about 330 Km. With a geographical area of 1327 Sq. Km, the district is bounded by River Barak & Cachar district in the North and East, State of Mizoram in the South and East and Karimganj district in the west. The interstate border is stretched over 76 KM in the south east

- i) Name of the Scheme : Greater Algapur – Hailakandi Water Supply Scheme in Algapur and Hailakandi Development Block of Hailakandi District
- ii) Location : Hailakandi District, Assam.
- iii) Area to be covered : The area to be covered by the project is complete area of Algapur and Hailakandi Development Block of Hailakandi District spanning between North latitude 24°40' to 24°51' and East 92°31' to 92°40'. All total 233 Habitations of 14 GPs of these two development block shall be benefited by house to house level connection of the project.
- iv) The total Cost of the project is envisaged at Rs.105.99 Crore.
- v) The implementation of water supply component is likely to complete by the end of the 2018.



Block wise Data Analysis Report :



A.

BLOCK	TOTAL HHD Surveyed	Distance from Water source : Summer				
		Outside premises 100 M TO MORE THAN 250 M	Outside Premises <50 M	WITHIN PREOMISES 100 M TO MORE THAN 250 M	WITHIN Premises <50 M	
Algapur	15524	5788	2113	26	7597	
Hailakandi	5499	2760	451	16	2272	
Total	21023	8548	2564	42	9869	

B.

BLOCK	TOTAL HHD Surveyed	Distance from Water source : Monsoon			
		Outside premises 100 M TO MORE THAN 250 M	Outside Premises <50 M	WITHIN PREOMISES 100 M TO MORE THAN 250 M	WITHIN Premises <50 M
Algapur	15524	6322	1971	14	7217
Hailakandi	5499	2955	330	2	2212
Total	21023	9277	2301	16	9429

NB : In both the above sheets **A** & **B** it came to light that nearly half of the HH are fetching drinking water from 100 M to More than 250 M from street hydrants/ other source in both summer & monsoon time where as half of the HH are adjusting within less than 50 M range maximum from open/other source

BLOCK	TOTAL HHD	Time to carry water : summer				Time to carry water : monsoon			
		Less than 10 mins	10 to 30 mins	30 mins to 1 hr	1 hr and above	Less than 10 mins	10 to 30 mins	30 mins to 1 hr	1 hr and above
Algapur	15524	5750	6302	2387	1085	5711	5958	2497	1358
Hailakandi	5499	642	1878	1429	1550	612	1916	1442	1529
Total	21023	6392	8180	3816	2635	6323	7874	3939	2887



Water scarcity

BLOCK	TOTAL HHD	Affected HHD	How do they manage to get drinking water		
			Headload	Purchased	Trasported by vehicle
Algapur	15524	10001	9501	478	23
Hailakandi	5499	3316	3098	214	4
Total	21023	13317	12599	692	27

HHD satisfied with existing WS

BLOCK	TOTAL HHD	HHD satisfied with WS	Partially satisfied	Not satisfied
Algapur	15524	282	832	14410
Hailakandi	5499	131	105	5263
Total	21023	413	937	19673

Water Quality :

BLOCK	TOTAL HHD	Physical water quality problem	
		Yes	No
Algapur	15524	13911	1613
Hailakandi	5499	4989	510
Total	21023	18900	2123

Cases of waterborne diseases

BLOCK	TOTAL HHD	HHDs affected by Typhoid	HHDs affected by Cholera	Jaundice	Diarrhoea
Algapur	15524	736	13	307	132
Hailakandi	5499	260	4	21	15
Total	21023	996	17	328	147



BLOCK	TOTAL HHD	Women/ Girl Child/ All Children	Men and Women/ All members/ Men only
Algapur	15524	2610	4915
Hailakandi	5499	1065	1926
Total	21023	3675	6841

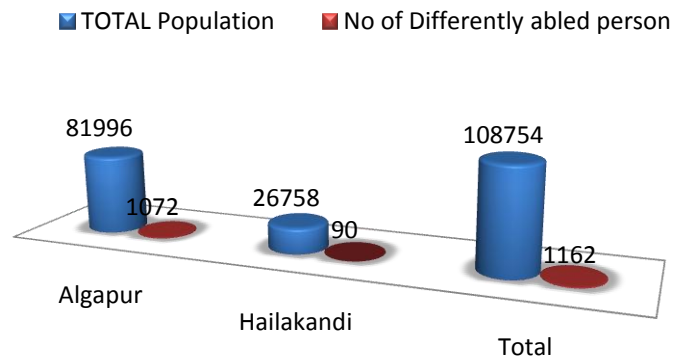
TOILET

BLOCK	TOTAL HHD	HHDs Have or Use Toilet	Functional	Defunct
Algapur	15524	6407	5134	1273
Hailakandi	5499	2905	1671	1234
Total	21023	9312	6805	2507

Note:: 11711 no of HHD don't use toilet either they have no toilet or they have defunct toilet



Status of differently abled population



BLOCK	TOTAL Population	No of Differently abled person	
Algapur	81996	1072	
Hailakandi	26758	90	
Total	108754	1162	

NB : There are more than a thousand disabled persons, so it is important to identify how they are using IHHL or fetching drinking water .

BLOCK	TOTAL HHD	HHDs Have or Use Toilet	Individual toilet	Shared toilet with neighbour	Public/GP/Community toilet/Other
Algapur	15524	6407	5374	447	587
Hailakandi	5499	2905	2314	40	551
Total	21023	9312	7688	487	1138



water availabilty in toilet

BLOCK	TOTAL HHD	HHDs having toilet	Running tap water in toilet	Water available in a bucket/small tank	Water not available
Algapur	15524	6407	243	3265	2916
Hailakandi	5499	2905	69	414	2422
Total	21023	9312	312	3679	5338

Type of toilet

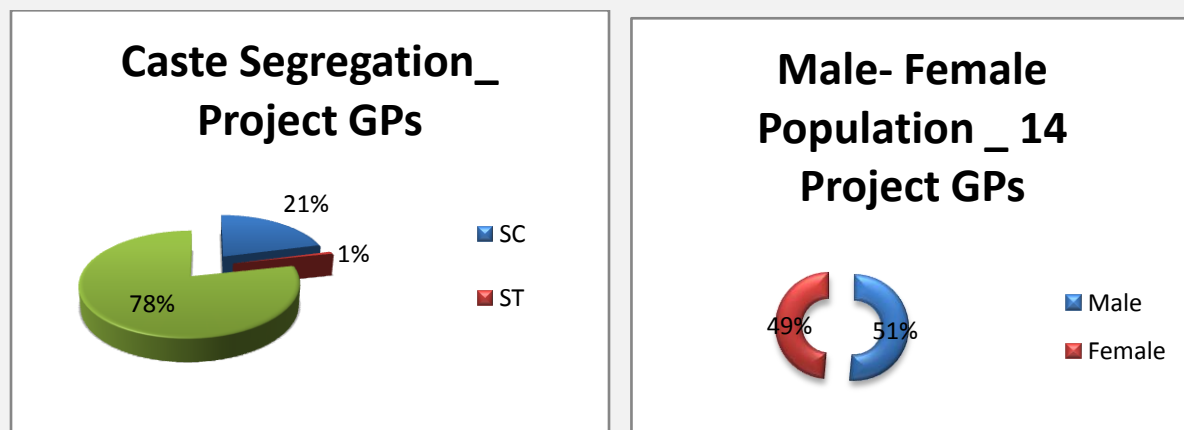
BLOCK	TOTAL HHD	HHDs having toilet	Deep Single Pit/Leach Pit	Double Pit	Saptic tank	Others
Algapur	15524	6407	2890	1576	596	1346
Hailakandi	5499	2905	1537	247	547	552
Total	21023	9312	4427	1823	1143	1898

Toilet location

BLOCK	TOTAL HHD	HHDs having toilet	Within premises	Outside premises
Algapur	15524	6407	3980	2427
Hailakandi	5499	2905	1267	1638
Total	21023	9312	5247	4065



GP wise Data Analysis report:



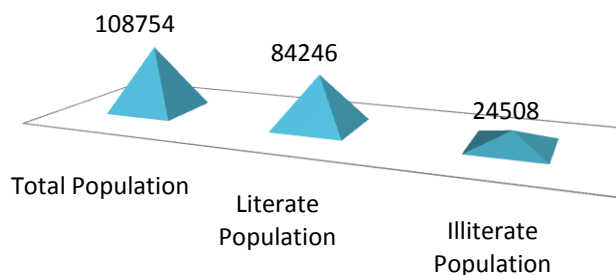


Caste & gender based data analysis :

Sl. No.	GP	Block	Total entry	Null records/Rejected	Accepted/Others	No of Villages	No of Habitation	HHD Category			Gender		TOTAL
								SC	ST	GEN/Others	Male	Female	
1	Boalipar	Hailakandi	1268	76	1192	4	11	61	1	1130	3230	3041	6271
2	West Mohanpur	Algapur	1539	38	1501	3	14	31	0	1470	3534	3414	6948
3	Mohanpur	Algapur	1463	2	1461	5	15	558	1	902	3740	3526	7266
4	Algapur	Algapur	1741	79	1662	4	17	972	58	635	4340	4066	8406
5	Bakrihawar	Algapur	1826	1	1825	9	35	373	4	1448	5304	5028	10332
6	Bashbari	Algapur	1629	15	1614	6	21	539	23	1052	4586	4399	8985
7	Bhatirkupa	Hailakandi	1777	18	1759	8	21	45	7	1707	4292	4144	8436
8	Chandipur	Algapur	1851	9	1842	4	14	411	0	1431	5556	5242	10798
9	Chandpur-Ujankupa	Hailakandi	1226	16	1210	1	6	20	0	1190	2995	2965	5960
10	Chiporsangan	Algapur	1279	36	1243	6	17	42	0	1201	3441	3182	6623
11	Gangpar Dhumkar Lakhirbond	Hailakandi	1340	2	1338	4	21	35	3	1300	3189	2902	6091
12	North Narainpur	Algapur	1805	1	1804	6	21	415	2	1387	4809	4496	9305
13	Sayedbond	Algapur	1101	37	1064	4	15	562	0	502	2795	2603	5398
14	Uttar Kanchanpur	Algapur	1632	124	1508	4	17	344	52	1112	4083	3852	7935
	TOTAL		21477	454	21023	68	245	4408	151	16467	55894	52860	108754

NB : It is to be noted that Male-Female ratio is evenly distributed , tribal population is very less compared to SC and General Category of beneficiaries.

Literacy Status



Socio Status analysis :

Sl. No.	GP	Block	Total HH	TOTAL Popln	Illiterate population	Employment Status	
						No of HHD with employment of various category including farm based livelihood	Unemployed
1	Boalipar	Hailakandi	1192	6271	1479	596	596
2	West Mohanpur	Algapur	1501	6948	1508	1375	126
3	Mohanpur	Algapur	1461	7266	531	1348	113
4	Algapur	Algapur	1662	8406	1525	1262	400
5	Bakrihawar	Algapur	1825	10332	2688	1647	178
6	Bashbari	Algapur	1614	8985	1605	1549	65
7	Bhatirkupa	Hailakandi	1759	8436	1214	1513	246
8	Chandipur	Algapur	1842	10798	4391	742	1100
9	Chandpur-Ujankupa	Hailakandi	1210	5960	1700	1056	154
10	Chiporsangan	Algapur	1243	6623	839	562	681
11	Gangpar Dhumkar Lakhirbond	Hailakandi	1338	6091	1117	554	784
12	North Narainpur	Algapur	1804	9305	1620	1627	177
13	Sayedbond	Algapur	1064	5398	994	765	299
14	Uttar Kanchanpur	Algapur	1508	7935	3297	1361	147
	TOTAL		21023	108754	24508	15957	5066



Existing source of Water :

Sl. No.	GP	Block	TOTAL Popln	Total HH	Source of water		
					Public water supply	Private Source of water	Open/Others Sources
1	Boalipar	Hailakandi	6271	1192	25	14	1153
2	West Mohanpur	Algapur	6948	1501	180	1	1320
3	Mohanpur	Algapur	7266	1461	219	77	1165
4	Algapur	Algapur	8406	1662	50	166	1446
5	Bakrihawar	Algapur	10332	1825	94	9	1722
6	Bashbari	Algapur	8985	1614	7	440	1167
7	Bhatirkupa	Hailakandi	8436	1759	131	59	1569
8	Chandipur	Algapur	10798	1842	0	8	1834
9	Chandpur-Ujankupa	Hailakandi	5960	1210	9	205	996
10	Chiporsangan	Algapur	6623	1243	89	45	1109
11	Gangpar Dhumkar Lakhirbond	Hailakandi	6091	1338	151	39	1148
12	North Narainpur	Algapur	9305	1804	222	37	1545
13	Sayedbond	Algapur	5398	1064	9	2	1053
14	Uttar Kanchanpur	Algapur	7935	1508	6	210	1292
	TOTAL		108754	21023	1192	1312	18519

NB ; The baseline survey reflects that there is very little pipe water / private source of water coverage and most of the population are bound to rely on open/ other sources.



Economic status availability :

Sl. No	GP	Total HH Not having /using toilet	Having Mobile	Having Newspaper/Mag	Having Cable TV	Having TV	Having Radio	Housing pattern		Having own land	Having Employment		
								Pukka	Semi-pukka		Govt	Pvt	Self-Empl
1	Boalipar	275	201	2	2	0	2	29	47	275	10	5	0
2	West Mohanpur	1085	816	5	1	3	18	144	237	1077	20	3	21
3	Mohanpur	11	11	3	1	1	3	7	2	10	1	2	2
4	Algapur	1507	1407	7	114	61	61	355	416	1494	136	82	178
5	Bakrihawar	1428	1090	2	1	6	9	121	183	1426	20	17	9
6	Bashbari	1123	788	99	3	29	82	45	294	928	40	29	39
7	Bhatirkupa	1183	577	307	29	7	58	102	232	1172	22	16	29
8	Chandipur	1520	1056	8	4	28	32	239	200	1514	22	340	56
9	Chandpur-Ujankupa	28	15	0	0	0	0	0	4	26	0	0	6
10	Chiporsangan	783	742	3	20	22	28	131	180	781	36	8	45
11	Gangpar Dhumkar Lakhirbond	1108	813	12	65	50	74	82	373	1084	53	16	20
12	North Narainpur	567	268	6	5	3	27	53	102	550	7	2	108
13	Sayedbond	494	464	14	6	13	16	109	120	489	17	4	11
14	Uttar Kanchanpur	599	339	12	9	24	31	72	116	584	11	19	17
	TOTAL	11711	8587	480	260	247	441	1489	2506	11410	395	543	541



Disease Prevalence Status in last 6 months:

Sl. No.	GP	Typhoid			Cholera			Jaundice			Diarrhea		
		Men	Women	Children	Men	Women	Children	Men	Women	Children	Men	Women	Children
1	Boalipar	1	5	1	0	0	0	3	2	1	1	0	0
2	West Mohanpur	14	15	7	0	0	0	7	0	6	2	4	2
3	Mohanpur	1	0	0	0	0	0	1	1	1	0	0	0
4	Algapur	7	0	0	0	0	0	2	0	0	4	0	1
5	Bakrihawar	2	0	0	0	0	0	0	0	0	2	0	0
6	Bashbari	0	0	0	1	0	0	2	0	2	3	0	0
7	Bhatirkupa	0	0	0	0	0	0	0	0	0	0	0	0
8	Chandipur	0	0	0	0	0	0	0	0	0	0	0	0
9	Chandpur-Ujankupa	0	0	0	0	0	0	0	0	0	0	1	0
10	Chiporsangan	0	0	0	0	0	0	0	0	0	0	0	0
11	Gangpar Dhumkar Lakhirbond	1	7	2	1	1	0	5	1	4	7	2	9
12	North Narainpur	4	2	0	0	0	0	9	9	1	2	2	0
13	Sayedbond	1	1	1	0	0	0	4	3	7	0	0	0
14	Uttar Kanchanpur	17	7	16	11	3	2	65	42	102	23	42	92
	TOTAL	48	37	27	13	4	2	98	58	124	44	51	104



Functional Toilet Usage pattern:

GP	Functional	Usage
ALgapur	140	137
Bakrihawar	364	358
Bashbari	130	114
Bhatirkupa	286	281
Boalipar	471	227
Chandipur	270	21
Chandpur Ujankupa	794	747
Chiparsangan	450	429
Gangpur Dhumkar Lakhirbond	123	121
Mohanpur	1435	1312
North Narainpur	1034	985
Sayedbond	570	567
Uttar kanchanpur	491	426
West Mohanpur	266	166
Total :	6558	5725



Water Coverage in IHHL :

GP	Having Toilet	Running Tap Water	Water availability	No Water
Algapur	155	36	63	56
Bakrihawar	397	17	181	216
Bashbari	491	86	306	99
Bhatirkupa	576	5	4	567
Boalipar	917	28	8	881
Chandipur	322	15	306	1
Chandpur Ujankupa	1182	25	320	837
Chiparsangan	460	7	203	250
Gangpur Dhumkar Lakhirbond	230	11	82	137
Mohanpur	1450	15	1414	21
North Narainpur	1237	7	23	1207
Sayedbond	570	28	379	163
Uttar kanchanpur	909	7	259	643
West Mohanpur	416	25	131	260
Total :	9312	312	3679	5338



Dysfunctional toilet status :

No	GP	Dysfunctional Toilet	0	Inadequate Super Structure	Inadequate Super Structure	No Water In Toilet	Maintenance (pit fall Issue)	others
1	Algapur	26	10	0	0	12	3	1
2	Bakrihwar	39	2	3	0	1	30	2
3	Bashbari	366	3	321	13	25	2	0
4	Bhatirkupa	294	3	255	7	29	0	0
5	Boalipar	447	1	1	335	1	0	0
6	Chandipur	59	2	52	1	0	1	0
7	Chandpur Ujankupa	391	1	26	12	343	0	9
8	Chiparsangan	13	2	5	0	4	3	0
9	Gangpur Dhumkar Lakhirbond	107	0	97	0	5	0	1
10	Mohanpur	19	4	1	11	0	0	2
11	North Narainpur	206	0	87	30	53	24	0
12	Sayedbond	2	2	0	0	0	0	0
13	Uttar kanchanpur	423	3	179	8	199	1	0
14	West Mohanpur	157	4	9	3	111	28	2
Total		2549	37	1036	420	783	92	17



Disposal of Solid Waste :

No	GP	Total HH	Burning	Composting	Other	Segregation and safe disposal	Thrown out
1	Algapur	1662	714	3	258	0	687
2	Bakrihawar	1825	14	389	2	0	1420
3	Bashbari	1614	81	518	5	91	916
4	Bhatirkupa	1759	17	277	0	299	1165
5	Boalipar	1192	480	9	1	1	701
6	Chandipur	1842	8	3	1	0	1830
7	Chandpur Ujankupa	1210	92	35	363	3	717
8	Chiparsangan	1243	14	2	1	17	1209
9	Gangpur Dhumkar Lakhirbond	1338	21	11	0	0	1305
10	Mohanpur	1461	128	1090	43	8	192
11	North Narainpur	1804	32	251	53	17	1451
12	Sayedbond	1064	61	26	497	119	360
13	Uttar kanchanpur	1508	48	37	4	7	1412
14	West Mohanpur	1501	47	295	0	1	1157
Total		21023	1757	2946	1228	563	14522



Disposal of Liquid waste :

No	GP	Total HH	Disposal of Grey Water(Kitchen waste)				Disposal of Black Water			
			Drainage	Kitchen garden	Soak pit	Stagnated water pool	Black water comes out (NO)	Black water comes out (Yes)	Open drain	Closed drain
1	Algapur	1662	919	738	3	2	854	806	249	589
2	Bakrihawar	1825	93	1592	140	0	854	806	249	589
3	Bashbari	1614	156	1369	84	5	40	1574	33	7
4	Bhatirkupa	1759	581	850	325	3	319	1440	293	25
5	Boalipar	1192	34	1157	1	0	59	1133	48	9
6	Chandipur	1842	949	884	7	2	2	1839	1	1
7	Chandpur Ujankupa	1210	763	31	414	2	385	825	347	37
8	Chiparsangan	1243	404	772	66	1	17	1225	13	3
9	Gangpur Dhumkar Lakhirbond	1338	1141	154	36	7	44	1292	42	2
10	Mohanpur	1461	46	768	572	75	27	1434	15	11
11	North Narainpur	1804	487	402	914	1	83	1721	10	72
12	Sayedbond	1064	534	459	69	1	195	868	38	146
13	Uttar kanchanpur	1508	41	1425	40	2	330	1177	33	296
14	West Mohanpur	1501	86	1322	93	0	978	523	187	787
Total		21023	6234	11923	2764	101	4187	16663	1558	2574



Conclusion :

The baseline survey will guide the project in identifying the issues which needs to be addressed . It's a very useful resource on the basis of which we can make out plans /strategies to overcome the situation in the sphere of Rural Water Supply, Sanitation & SLWM in Days ahead .

Its to be worth mentioning to thank all 28 Enumerators and also flying squads who worked up to make out the baseline database of NNP a reality. For feedback kindly do send us mail at - hailakandiworldbankproject@gmail.com.