

A report on Jalstrot Sneh Sanvardhan Samiti Orientation Workshop
Date- 21/01/2015 and 19/3/2015

1. Introduction

With the aim of ensuring water independent of Bhuj city, a committee of Bhuj citizens called Jalstrot Sneh Sanvardhan Samiti (JSSS) is active from last six years for water resource conservation and management. Various activities for water resources conservation regularly are done by JSSS. These activities are as follows

- Awareness programs
- Positive advocacy
- Water conservation and harvesting demonstration- Roof top Rain Water Harvesting, Ground Water Recharge and flood control, Lake revival and renovation activities
- Decentralized drinking water system –Planning and Implementation
- For Water Resources Development and management Participate in Coordination, planning and implementation with Local Government Departments, Local Panchayati Raj Institute- Municipality

While doing these activities, today JSSS have put their strengthening steps towards an organization of Bhuj citizens. For effectiveness and productive result of these activities, plan will become strengthen and consolidate. For effective planning of activities, JSSS has to clear their goal. Continuous contemplation and thinking has to do for clear goal. For this aim, series of vision workshops have plan to increase sharpening of vision.

2. Aim and objective

- Understanding of Urban Participatory Ground Water Management(PGWM)
- Discussion on Strengthening of Jalstrot Senh Sanvardhan Samiti(JSSS)

3. Discussion and Activities

3.1 Understanding of Urban Participatory Ground Water Management

Dr.Yogesh Jadja has explained PGWM concept and in context with to Bhuj, what is PGWM? That is presented. After that, information of activities has given for the PGWM processes. The information activities are as follow

Sr. No.	Activities	Objectives
1	Study and Research	Aquifer characterization, Impact monitoring , Ground Water Management planning and protocol development ,Water pricing study, water governance,etc.

2	Demonstration	Model development on study, research and decentralized planning for ground water management
3	Institution Building	Bhuj City watershed and ground water management through formation and strengthening of City level authority and sub committees for decentralize water resource management and maintenance and users committees for source management and maintenance for best utilization of water
4	Training and Capacity Building	<ul style="list-style-type: none"> • Capacity building of Bhuj citizen level committee for over all watershed and ground water management • Capacity building of Decentralize Water Resource Management and maintenance • Capacity Building of water user committee for source sustainability, source maintenance and for best water use practices • Self-capacity building through training and handholding on research and study, documentation and proposal making, new agenda like sewerage water management, fund mobilization and convergence of activities, ground water pollution and its remedies etc.
5	Awareness	<ul style="list-style-type: none"> • Awareness and educate at all levels and type of communities of working area of JSSS about how to become self-reliant on drinking water through integrated and decentralize management of surface and ground water by participation of all stakeholder and by demonstrating best practices on that
6	Advocacy	<ul style="list-style-type: none"> • Advocacy from family level to ward to city level and at local PRI and district administration level for processes and practices of integrated watershed and ground water management and decentralize water resource management

After that, one year plan is prepared. (Annexure-I)

Besides this, following points has cleared for Participatory Groundwater Management.

Working Area-

1. Urban and Peri-urban areas –

Urban Boundary	Peri Urban Bondary
Bhuj Municipality Bouyndary- <ul style="list-style-type: none"> • Ward No. 1-14 • Haripar Ward No.15 	As per Watershed Boundary <ul style="list-style-type: none"> • Jadura Revenue Boundary • Forest land • Sedata Revenue Boundary • Some area of Kodaki Revenue Boundary • Some area of Ratiya Revenue Boundary • Some area of Nagor Revenue Boundary
Bhuj Area Development Authority <ul style="list-style-type: none"> • Bhuj Municipality Boundary • Mirzapar Revenue Boundary • Some area of Madhapar Revenue Boundary • Some area of Palara Revenue Boundary • Some area of Nagor Revenue Boundary 	As Bhuj city water supply scheme <ul style="list-style-type: none"> • Gada water supply • Kukama Water Supply • Bhujodi Water Supply • Bharapar Water Supply <hr/> As Sewerage water discharge area – Nagor area

2. As per boundary of watershed area

2.1 Watershed boundary

2.2 Aquifer boundary

3. Based on Water Services area can decide

Society and communities: To develop participation in PGWM, understanding of various communities and societies of working area is an important aspect. It has decided to work with the following communities and societies

- Based on Area
 - Urban Communities
 - Rural Communities
- Based On Livelihood

- Based on water distribution
- Based on water resources
- Based on waste water discharge

After discussion, working area of JSSS has decided of city and peri -urban villages.

After that, what is participation and how it can develop and with whom? That has discussed and **the following has been decided**

What is Participation?

Why participation?

- For understanding of local groundwater
- Knowledge of local groundwater should be disseminate and manage generation to generation (That type of Institution)
- For development of medium for ground water management
- To build reliability of societies and administrators on local ground water
- To protect and conserve (Groundwater) water resources
- To avoid societies from external temptation
- To build responsible society for water
- To create ownership on problems, solutions and resource management
- To prepare policy for Bhuj city groundwater management

Participation With whom?

- Administration –Municipality, Forest Department, Irrigation Department, Watershed department, Gujarat Water Supply and Sewerage Board, Bhuj Area Development Authority, Revenue , Urban Development Ministry
- People of Bhuj city and peri-urban area
- Institutions- Educational, NGOs/VOs, Informal Groups like Yuvak Mandal, Mahila Mandal, etc.
- Industrial Units
- Various business or professional groups
- Elected representatives by peoples- Councillors, Presidents, Sarpanch, MLA, MP, Opposite party leader
- Local medias- Kachchh Mitra, Divya Bhaskar, Hamirsar No Sad, Electronic Medias
- Resource agencies- ACWADUM, CEPT
- Experts- Dr.K.C.Tiwari, Dr.Parthsarathi, Dr.Mira Mehta, Meenaben, Kavtaben Nath, Kavtaben Mehta
- Donours –Kantisen Shroff, Yogada Satsang Society, ARGHYAM, Homes In the City, Municipality, Individuals
- Researchers

3.2 After completion of above discussion, discussion has done on strengthening of JSSS and it has concluded that if we want to strengthen JSSS than we have to work in following directions

1. Various activities has plan and implement in each and every area of working
2. There is a representative from each and every working area of JSSS
3. Institutional strengthening of JSSS

Thus, based on above points, next workshop will plan on 19 and 26 march to clear future planning directions and to plan concrete planning

Annexure-1 Planning

Arid Communities and Technologies(ACT)-Bhuj

PGWM URBAN Nov 2014 to Dec 2015																								
Objective	Component	Activity	Target			Timeline												Responsible	Project	Budget				
			Planned No.	Type/Org	Actual No.	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sept	Octo				Nov	Dec		
Capacity Building	Water committee	Finalized syllebus, Training	2 Training, 4 Committee, 40 Member	CBO's						14, 31			20								YJ, GP, AP, VR	UPGWM-Arghyam (B.H. 2.2)	20000	
	Tank committee	Urban Watershed and aquifer and groundwater	12 Training, 9 Committee, 50 Member						1st												MJ, AP	UPGWM-Arghyam, (B.H. 2.2)	100000	
	Self	Sewerage management , Decision making, Project management,Budget and finance management, Study and research skill, Design and estimate, report writing,proposal writing, english writing and speaking , different technology exposure and different institution exposure , GIS, Data analysis, Water acts, Institution development, personal development							Docu mentation Training	12, 13	8,9,10,11	Gender Training of New Team, At Ahmeda bad										Team, KMU	UPGWM-Arghyam	
	School committee	Finalized syllebus, Training	2 Training, 11 committee, 40 Member							7											YJ, BT, MH, GR,VR	UPGWM-Arghyam (B.H. 2.2)	20000	
	Urban PARAB	Module designing																			YJ,BDT,GR, KMU	UPGWM-Arghyam (B.H. 2.3)		
		Coordination with resource persons																					UPGWM-Arghyam (B.H. 2.3)	
		Conducting of Module -1 to ----																					UPGWM-Arghyam (B.H. 2.3)	
		Monthly Documentation of Urban PARAB																					UPGWM-Arghyam (B.H. 2.3)	
		Hand holding by JSSS and Urban team																					UPGWM-Arghyam (B.H. 2.3)	
	JSSS committee	Vision Building,	3 Workshop, 30 member	CBO's					21		19			21								MJ, AP, GP, GR	UPGWM-Arghyam, (B.H. 2.1)	15000
	Workshop for Hamirsar no saad	Strengthening Magazine, Expand Writer circle, How to sustaine	Half day, 30 Member						19													MJ, VR, TC, AJ		10000
	Exposures	Bangaluru, Bihar	Urban Team, JSSSS, 20 Member											13								MJ, GP, VR	UPGWM-Arghyam (B.H. 1.3)	100000
	Recreation Trip	Udaypyr, Jesalmer	ACT TEAM							25												VK, GP, MV	UPGWM-RPGWM Arghyam, IT	100000
Advocacy workshop	Oriantation on UPGWM	Nagarpalika, water supply Dept.	ULB									12									JS, AR, BT, AP, TC, MH	UPGWM-RPGWM Arghyam		
Documenta tion of awareness and social activities	Audio video documents																				KMU	UPGWM-Arghyam (B.H. 1.7)	25000	
	Hamirsar no sad																				Manishaben, Vinitbhai, Manishbhai			
	Training material-Urban PARAB																				KMU	UPGWM-Arghyam (B.H. 1.7)		
	Training material-PGWM perspective																				KMU	UPGWM-Arghyam (B.H. 1.7)		
	Publication - Raishinji Rathod																				KMU	ACT		
Action Research	Water Harvesting and recharge technological feasibility	RRWHS feasibility study and research	Study of various technologies, Rules and regulation, Random surveys, Analysis, Report, workshop	Govt. Dept. PPP, Experts,					31												MJ, GP	HIC	100000	
		Common Plot recharge feasibility study and research	Data Collection,	BHADA,						10											GR, GP, KS	UPGWM-Arghyam	10000	
	Desalsar tank Study	Base map preparation																				JS, GP	HIC	100000
		Field visit of areas																				JS	HIC	
		identification of problems																				JS	HIC	
		Secondary data collection																				JS	HIC	
		Informal group formation for study																				JS, Urban PARAB	HIC	
		Resource mapping																				JS	HIC	
		Water testing																			JS	HIC		
		Analysis and conclusion																			JS	HIC		
Aquifer Characterization and Data Collection																						UPGWM-Arghyam (B. H. 4.1)	100000	
Urban PGWM – Arghyam	Establishment of monitoring network and data analysis	Organizing existing data																			GP, YJ	UPGWM-Arghyam (B. H. 4.2)	20000	
		Well and bore well inventory																			GR, YJ	UPGWM-Arghyam (B. H. 4.2)	100000	
		Surface water inventory																			TEAM	UPGWM-Arghyam (B. H. 4.2)		

Annexure-2 List of Participants

Vision Workshop Part -1

Date -21/01/2015

Place- JSSS Office

Sr.	Name	Area Committee / NGO/CBOs
1	Mrs.Kamshreeben S. Ghadhavi	J.S.S.S.
2	Mr. M.H. Pir	J.S.S.S.
3	Mrs. Jagrutiben Sanghavi	ACT
4	Mr.Gopal D. Reel	ACT
5	Mr Avnish R. Rana	ACT
6	Mr Kantilal H. Patel	J.S.S.S.,Umasar Lake Committee
7	Mr Brijenbhai Thakar	ACT
8	Mr. Dayaram N. Parmar	J.S.S.S., Desalsar Lake Committee, Madhavrai Water Committee
9	Dr.Yogeshbhai J. Jadeja	ACT
10	Mr. Gaurav Parmar	ACT
11	Ms. Manisha Jadeja	J.S.S.S.
12	Mr. Vinit Rana	ACT
13	Mr. Karsanji Sodha	PARAB
14	Mr. Tarunkantbhai Chhaya	J.S.S.S.

Vision Workshop Part -2

Date -19/03/2015

Place- JSSS Office

Sr.No	Name	Area Committee / NGO/CBOs
1	Mr. M.H. Pir	J.S.S.S.
2	Mrs. Jagrutiben Sanghavi	ACT
3	Mr.Gopal D. Reel	ACT
4	Mr Nawab M. Lakha	Urban Parab
5	Mr Kishor N. Matang	Urban Parab
6	Mr Rohan K. Soni	Urban Parab
7	Mr Avnish R. Rana	ACT
8	Mr Chandravadanbhai Vaidh	J.S.S.S.
9	Mr Kantilal H. Patel	J.S.S.S.,Umasar Lake Committee
10	Mr Kisan L. Soni	Urban Parab
11	Mr Nareja Abdul	Urban Parab
12	Mr Manishbhai Pandiya	Urban Parab
13	Mr. Dayaram N. Parmar	J.S.S.S., Desalsar Lake Committee, Madhavrai Water Committee
14	Mr. Amrutbhai Patel	ACT
15	Dr.Yogeshbhai J. Jadeja	ACT
16	Mr. Gaurav Parmar	ACT
17	Mr. Tarunkantbhai Chhaya	J.S.S.S.
18	Mr. Bhupendrabhia Mehta	J.S.S.S.
19	Mr. Karasanji Sodha	PARAB

1. Introduction

With the aim of ensuring water independent of Bhuj city, a committee of Bhuj citizens called Jalstrot Sneh Sanvardhan Samiti (JSSS) is active from last six years for water resource conservation and management. Various activities for water resources conservation regularly are done by JSSS. These activities are as follows

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- Positive advocacy
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While doing these activities, today JSSS have put their strengthening steps towards an organization of Bhuj citizens. For effectiveness and productive result of these activities, plan will become strengthen and consolidate. For effective planning of activities, JSSS has to clear their goal. Continuous contemplation and thinking has to do for clear goal. For this aim, series of vision workshops have plan to increase sharpening of vision.

2. Aim and objective

- To overview of JSSS past activities and result and discussion on activities carried out by JSSS
- Future activities of JSSS and clarity about JSSS directions as an organization building

To build understanding of JSSS in following aspects, this workshop has organize and following points have discuss

- JSSS Working area
 - Urban and Peri-urban
 - Watershed areas
 - Groundwater storage areas
 - Water and sewerage areas
- Understanding about participation
- Understanding of Communities and societies of working area
- Understanding of natural resources

With the above understanding, how JSSS activities will go forward while vision building activities on-going and how Bhuj city will become independent in context with water with plan of various activities has also discuss in this workshop.

Urban Participatory Ground Water Management-Bhuj City

Workshop No.2 Date-26,March,2015

Time	Particular
9:00 to 9:30	Registration and welcome
9:30 to 10:30	Bhuj city and nearby resources- problems, perspective and solutions
10:30 to 11:30	Group Discussion
11:30 to 1:30	Group-wise presentation
1:30 to 1:45	Future directions and summarisation
1:45 to 2:30	Lunch

Points to be discussed in group discussions-

- Current status of Hamirsar, Desalsar and Umasar watersheds
- Formation of watershed committees and numbers
- Areas in watershed boundaries
- One year planning (about Awareness activities, formations of tank water committees, activities planning and implementation regarding watershed development and management, research agendas, capacity building of organizations and communities of all watersheds, activities of urban Parab etc.)
- Collaboration and coordination with government organization and educational institute coming in watershed area
- Collaboration and coordination with social organization and technical organization coming in watershed areas
- Engagement with Urban and peri urban areas and its communities

Discussion points-

- From last six years JSSS has make identity as citizens organization and JSSS has done some activities but JSSS has to develop complete capacity for require change as per target
- The main objective of JSSS is to make independent or autonomous on water. To achieve this vision, there are so much lacking of activities. So, we have raise concrete steps to achieve this goal.
- We have to go forward with complete capacity building
- For this , current status of work, how it done, JSSS and ACT's urban team have make temptation on current work, how to proceed, where to work, how

to work , with whom to work from last two to three months. That was present here.

- Three watershed called Hamirsar, Desalasar and Umasar have identified as surface water resources in JSSS working area
- Ground water storage is going beyond the watershed limits and peri urban areas are also coming in its boundary. So, JSSS has to engage with peri urban area also.
- Bhuj city water supplies are coming from Bharapar, Kukama, Bhujodi. JSSS has to engage with this area also.
- To make sustainable organization (JSSS), JSSS has to create customs instead of rules. Some firm myths have to establish and on these myths, some demonstrations have to be plan and implement.
- Create identification of water concern communities. For its sustainability, responsibility will give to community/people. It is to understand characteristics of water usage communities and waste water affected and usage communities and on that basis, strategies have to build. And we have to make division of them according various characteristics and usage and with who to participate that will decide accordingly.

These all understanding has built during workshop presentation session and discussion with JSSS members, urban team and other stakeholders.

Then all participants have divided in four groups for all above points discussion and for one year action plan. Four groups have discuss on Deshalsar Watershed Association, Hamirsar Watershed Association, Umasar Watershed Association and Urban –Peri urban concern and collaboration.

The following are the action plan for every group has discussed and present in open discussion.

Hamirsar Association:-

1. Current status of Hamirsar Watershed

- It is the heart of the city and recorded in Government record
- Starting movement with Jalgatha
- More awareness activities like Paining competitions ,photography competition etc.
- Cleanliness of Hamirsar lake
- Cleaning and deepening in lakes coming in Hamirsar Watershed
- Cleanliness of *Dedakavav and Jalpedi there with All religions prayers*
- *Rajgorai Tank Renovation, Changlsehwar Tank Renovation*
- *Cleanliness of Jangle in inflow behind university*

2. Formation of watershed committees and numbers

Urban committees -8, Peri urban committee -5 Total-13 (Sedata,Bharapar, Mirzapar,Haripar water committees and Panchayat)

3.Areas in watershed boundaries

- Dhunaraja, Hamdrai, Nathabapa, Jivanrai,Haripar talav,Sardarnagar Talav,Dosarai Talav and Changleshwar Talav
- 24 wells inflow,Badami chhelo inflow, Jubilee Ground

4. Collaboration and coordination with government organization and educational institute coming in watershed area

GWSSB officer, Municipality officer, WASMO,ACT, PARAB, MLA, Bapalalbai, Devarajbhai

- Planning

Sr. No	Activities	Nos.
1	Awareness program	5-6
2	Chinatan Sabha	2
3	Awareness with students and teachers	As per requirement
4	Tank Committees formations and training	8
5	Mass communication	As per requirement

Desalsar Association:-

1. Current status of Desalasar Watershed

- Tank Committee is exist but no identification as committee but individual identification
- No result on problems so , committee is become passive
- No spread and reach because of lack of knowledge and information and guidance

Total tank committees -

- Desalasar , Bhujiyabala Tanks-2,Bhuteshwar Tank and 17 wells in this area
- Watershed areas – Lotus colony,Vijaynagar,Laltekar,Kalpataru, Bhaveshwarnagar,Janatanagari,Shivaramandap,Bakali Colony,Atmaram Circle,Pajarapol area,Sonapuri

- **Planning**

Sr. No.	Activities	Numbers
1	Awareness activities	10
2	Tank Committees	9
3	Training programs	As per requirement

- Capacity building, Knowledge sharing, Information and identity and spread and reach will develop
 - Urban Parab will support in new committee formations, give technical support , support in awareness activities and training programs
3. Collaboration with Government department and other organizations
- Collaboration and coordination with Municipality
 - Linkages processes with ACT,JSSS ,Sahjeevan and Bhuj Setu

Umasar Watershed Association

Year-1 - April {2015} Y) March {2016} Planning

<u>Name of Tank</u>	<u>Existing Committees</u>	<u>Information of activities done</u>	<u>Expansion of JSSS Planning for next year</u>
Nathabapa Tank	11 members committees and 3 members are active	De-silting and deepening and capacity building of committee	Linkage with Forest Department Planning for tank master plan
Madhrai Tank	Committee is exist	De-silting and deepening	Continuous awareness activities with users To active six members of committee
University 's Tank			Develop research and development project and demonstration of campus water management
New Tank			Discussion with forest department and formation of committee
Chokivali Tank		Desilting and deepening	Awareness activities with GIDE, Changaleshwar temple, Mundra relocation site for people

Sukhasar Tank	Exist committee but passive	Desilting and deepening	Prepare five members active group
Chhiparai Tank			Meet Mirzapar Gram Panchayat and tell about Umasar Association and joint work shall decide.
Bhanrai Tank			
Umasar Tank	Five members committee has form	Demarkation and publicity process has initiate and tank committee's capacity building of committee has start.	Minimum five mebers from Engg. College and other areas in committee Prepare master plan with committee Desitling and deepening in Umasar tank before monsoon
Mochirai Tank			
Khari Nadi's tank		Studied	Kharinadi swachhata abhiyan shall be inited by Urban Parab.

- Umasar Jalgatha will organize every two months
- JSSS will meet every tank committee at every two months
- Observation at every month about committee management
- Umasar Sneh Sanvardhan Samiti's five members work actively
- People's awareness responsibility is of Laxmanbhai and Kisan for Nathabapa, Madhrai and Navi Tanks
- People's awareness responsibility is of Kantibhai and Kisor for Chokivari, Chhiparai, Bhanrai and Umasar Tanks
- Forest department and University will link.
- Engg. college is link as technical organization

Four new committees will form in next year.

Expected Outcomes:

- In next year six tank commitees will form
- Five members will link with JSSS from each of committee.
- Executive group- Kantibhai, Kishor, Laxmanbhai, Kisan

Peri Urban linkages and relations-

1. Current Status -

- Get understanding about village panchayat 's water distribution and management
- Panchayat president, Village leader, workers, SMC of Schools, farmer's leader, etc. whose relation with water problems will link
- All villages of peri urban have visited and five water committees will link
- Five panchayats will link

2. Awareness activities-

- Three Jalgatha will organize
- School awareness activities
 - Painting competitions
 - Essay writing competition
 - Elocution competition
- Publish information of peri urban in Hamirsar No Sad

3. Implementation-

- Demonstration-3

4. Study and Research- 3

5. Urban Parab activities – In Study, planning and implementation

6. Link with Government organization- GWSSB, Forest, WASMO, Educational Department (Construction Dept.)

7. Engaging with Social Organization-3

After above presentation, working group for each watershed and Urban and Peri-urban area have form (Two committee members and one or two Urban Parab members)

Following are group with name-

1. Peri urban working group - Divyaben Vaidya, Minaben Vaghamshi, and Rohan Soni (Urban Parab)
 2. Umasar Watershed Working Group- Kantibhai, Laxmanbhai, Kiasn and Kishor (Urban Parab)
 3. Desalsar Watershed Working Group- Fatmmaben, Valjibhia and Nawab (Urban Parab)
 4. Hamisar Watershed Working Group- Niranjanben, Kamshreben and Abdul (urban Parab)
- For detail planning, these groups will meet on 5 April, 2015 at JSSS office.

The outcomes of this workshop are as under

1. Understanding about Working area and its spread
2. Four watershed association's institution process is start
3. Identification of active members of JSSS
4. Institution building process of watershed is speed up
5. Understanding and vision about societies and communities and water resource management and its problem's solutions by thinking process
6. JSSS and Urban PARAB linkages is emerge during this exercise
7. Four working group will form to work on this vision and mission directions
8. Women participation increases in numbers and participation
9. Vision will clear and knowledge increase for JSSS members and others tank committee's and water committee's members for water independent city