

Report of Capacity Building Workshops, Organized by Safe Water Network India in Warangal, Telangana

Date: 19th and 20th September 2015

Workshop theme:

Capacity Building Workshop on Integrated Water Resource Management for Improving
Water Use Efficiency and Promoting Water Harvesting



Workshop at KVK, MalyalFarmers discussing crop specific problem



Workshop at Warangal

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Purpose

To sensitize user community and safe water station operators on water stress in the region and discuss potential options for improving water use efficiency.

Workshop Venue

As per the plan two workshops were organized on 19th and 20th September, 2015. The first workshop was organized on 19th September at KrishiVigyanKentra, Malyal, Mahabubabad, District Warangal and second at Training Centre of BalaVikasa, Warangal.

Resource person and Schedule

The workshop on 19th September was organized at KrishiVigyanKentra, the venue provided advantage of availability of different subject matter specialists as faculty members for input sessions. Altogether following ten resource persons contributed in the input sessions.

Mr Ravi Bhoopathi, Project Officer from Safe Water Network India coordinated with all the participants and resource persons for organizing both the workshops. First three resource person as mentioned in the table below were represent for both the workshops and remaining provided inputs as per their convenience.

Sl No	Name	Designation	Organization
1	Mr Siva Kameshwar	Sr. Geologist	Rural Water Supply & Sanitation, Zilla Parishad, Warangal
2	Mr Rajanikanth Paladi	Sr Program Officer	Centre for World Solidarity, Secunderabad
3	Mr Subhash Jain	Program Leader	Safe Water Network India, New Delhi
4	Smt. Anitha Sri	Project Officer	Horticulture & micro-irrigation, Department, District Warangal, Govt. of Telangana
5	Mr Uma Reddy	Sr. Scientist & DATT coordinator	Agriculture Department, District Warangal, Govt. of Telangana
6	Smt A Sarala Kumari	Project In-charge	KVK, Malyal, Mahabubabad
7	Mr. Sridhar	Agronomist	KVK, Malyal, Mahabubabad
8	Ms. Sujatha	Soil Scientist	KVK, Malyal, Mahabubabad
9	Ms. Himabindu	Horticulture Specialist	KVK, Malyal, Mahabubabad
10	Mr Chari	Coordinator cotton project	Modern Architects for Rural India (MARI)

Considering the convenience of resource persons, the schedule of workshop held at KVK was kept flexible for timing of different sessions. The following sequence was adopted for the sessions;

Schedule of workshop held on 19th September 2015 at KVK, Malyal, Mahabubnagar

Topics	Resource Person	Designation
Welcome	Subhash Jain	Program Leader, SWNI, New Delhi
Optimum Utilization of Water & Construction of Recharge Structures	Ch. Siva Kameshwar	Sr. Geologist, RWS&S, Warangal
One Acre Drip System, Suitable for low yield wells & affordable for farmer	RajanikanthPaladi	Sr Program Officer, SuGWM Project, CWS, Secunderabad
Horticulture and micro-irrigation schemes promoted by Govt of Telangana	Smt. Anitha Sri	Horticulture Officer, GovtMahabubabad
About KVK & Micro Irrigation	Smt A Sarala Kumari	Project In-charge, KVK, Malyal, Mahabubabad
SRI & water saving methods in Paddy	Mr. Sridhar	Agronomist
Fertilizers, soil testing etc.	Ms. Sujatha	Soil Scientist
Pest Management	Ms. Himabindu	Scientist
Better Cotton Initiative	Mr Ramesh	MARI, Warangal

The schedule of workshop at Warangal was slightly modified based on the learning from first workshop. In this workshop, introduction of participants and their expectation from the workshops were added in the beginning to align with overall purpose of the workshop.

Schedule of workshop held on 20th September 2015 at Training Centre of BalaVikasha, Warangal

Topics	Resource Person	Time
Welcome	Subhash Jain	10.30 – 10.45
Introduction and expectations of participants	Subhash Jain &RajanikanthPaladi	10.45 – 11.15
Water Resource Management & Measures to Improve Water Use Efficiency	Subhash Jain	11.15 – 12.00
Tea Break		12.00 noon
Crop planning, water requirement for different crops and disease control	Uma Reddy	12.15 – 1.30
Lunch Break		1.30. - 2.15
Optimum Utilization of Water & Construction of Recharge Structures	Ch. Siva Kameshwar	2.15 – 3.30
One Acre Drip System, Suitable for low yield wells & affordable for farmer	RajanikanthPaladi	3.30 – 4.00
Horticulture and micro-irrigation schemes promoted by Govt of Telangana	Mr. Ramesh, Engineer, Micro Irrigation, Govt.	4.00 – 4.15
Water use efficiency in cotton crops – experiences from BCI project	Mr. Chary, Training Coordinator, MARI	4.15 – 4.45
Conclusion & Feedback		4.45 – 5.15

Participants

Altogether 96 participants attended both the workshops. In the first workshop 57 participants attended training from 25 villages attended the event, whereas in second workshop 39 participants from 18 villages participated. The list of participants with name and signature is enclosed as Appendix.

Methodology adopted for conducting the workshops

Audiovisual aids were used for conducting the session by different resource persons. After the input sessions the time was given for the participants to raise queries and discuss the points. The power point presentation was made on the following themes in both the workshops.

- Optimum Utilization of Water & Construction of Recharge Structures
- One Acre Drip System, Suitable for low yield wells & affordable for farmer
- Water Resource Management & Measures to Improve Water Use Efficiency

A documentary prepared by Centre for World Solidarity on Micro-irrigation system was also screened. In the session of agronomical practices, farmers discussed live example related to the problems faced by them on diseases and got the suggestion from experts. Overall, the methodology adopted by the resource persons was having a mix of visuals and lectures with time allocation for discussions in between. The presentations used in the workshops are attached herewith for reference.

Key points discussed during the workshops

1. The input session of senior geologist from Rural Water Supply and Sanitation department was liked by participants as he explained availability of water resources in different Mandal and stages of ground water development for each Mandal. He explained the overexploited and critical areas in district and remedial measures to be taken up. The inputs related to simple techniques of rainwater harvesting were explained.
2. The resource person from Centre for World Solidarity explained the difference in conventional micro-irrigation system and one acre irrigation system developed by CWS. The simplified version of one acre irrigation system liked most by the farmers in both the workshops and some of the farmers expressed their interest to adopt it.
3. The resource person from CWS also explained the concept of sustainable ground water management and rain water harvesting methods promoted by them for recharging the ground water body.
4. The crop water relationship was explained by the resource person from agriculture department. The water requirement for different crops, water saving techniques and agronomical practices are the key areas which were covered in the inputs. During the discussion, some of the farmers who came with plant saplings suffering with some disease, raised specific problems and sought the suggestions.
5. During the input session, resource person from Agriculture Department appreciated the initiative of Safe Water Network India for organizing the workshop. He liked the process adopted by SWNI for data collection, analysis and sharing the results with primary stakeholder. Following are the specific references mentioned during the discussion.

- The concept of virtual water was shared with specific reference to paddy cultivation. It was explained that one kilogram rice production requires around 3000 liter water, therefore selection of crops need to be done based on water availability and also there is need to adopt appropriate agronomical and irrigation practices for water saving.
- As per the SWNI study in 15 villages 98% available water is used for irrigation and rest is for other purpose. Since there is stress on available water resources and considering the shortage as felt by the farmers, there is need to adopt water saving methods in each stage of crop cycle.
- In future, Water consumption based pricing may come into effect, government may charge more from the farmers those cultivate high water consumption crops.
- Linkages of methane emission in paddy fields and its linkages with climate change were explained.
- Excess water causes not only water wastage but also spoils the soil
- Rotational irrigation method or aerobic method or drum seeding or mechanized system or SRI reduces water requirement in paddy, hence improved practices need to be adopted.
- Periodic de-silting of ponds, tank and reservoir is essential which increases recharge to ground water and water holding capacity of soils.

Annexure

List of Participants of Workshop AtKrishiVigyan Kendra, Mahabubabad, Warangal

Date:19/09/2015

Sl.No.	Name	Village	Mobile No.	Signature
1	Mokka Yada giri	Gollipadu	7659952559	
2	M. Venkatrao	Gollipadu	9346488289	
3	Garla Srinu	Vennaram	9666103711	
4	Nagelli Balara ju	Vennaram	9701401949	
5	M. Malsuru	Kampalli	9177913175	
6	B. Narsaiah	Kampalli	9966335581	
7	S. Veerabhavam	Rajole	9985029955	
8	B. Laxminarayana	Rajole	9966751385	
9	B. Veeranna	Muthogipeta	9966870156	
10	D. Veerabhadram	Muthogipeta	9642754441	
11	K. Krishna	Mahabubabad	9394012842	
12	T. Umesh Yadav	Apparajupally	8886913530	
13	K. Veeranna	Apparajupally	9966885957	
14	K. Yakaiah	Apparajupally	9550253702	
15	P. Charan	Madhava puram	9908322963	
16	A. Ramesh	Shyampet CC Mari	9948132092	
17	B. Ramesh	Madhava puram	9985928603	
18	T. Ramesh	Kuravi	9966859608	
19	B. Ravi	Kuravi	9985781320	
20	P. Mallesh	Kuravi	9703653161	
21	A. Krishna	Kothaguda	9010648880	
22	A. Nagaiah	Kothaguda	9848826984	
23	B. Nagaiah	Kuravi	9885377327	
24	N. Sambasiva Rao	Kuravi	9966070483	
25	G. Laxminarayana	Chinukodu	9948787443	
26	A Suresh	Chinukodu	9848685582	
27	R. Upender	Chinukodu	9553389609	
28	T. Purushotham	Chinukodu		
29	K. Sthish	Nekkonda	9154527012	
30	Rampraad	Nekkonda	9666194454	
31	N. Ravi	Gudur	94436740	
32	Ch. Venkateshwarlu	Gudur	9542434179	
33	S. Srinivas	Madhava puram	9550100208	
34	B. Ramesh	Mannegudem	939474853	
35	T. Venkateshwarlu	Mannegudem	9010133701	
36	A. Koteswar Rao	Mannegudem	9177643162	
37	Ch. Nageshwar Rao	Mannegudem	8008652247	
38	Ch. Upender	Mulkalapally	9666153165	
39	T. Rukkaiah	Thodellagudem	9912116573	
40	P. Srinivasulu	Thodellagudem	9603316114	
41	M. Sathyam	Thodellagudem	9603329141	
42	P. Shyamsunder Reddy	Edlapusapally	9440948665	
43	K. Srinivas Reddy	Edlapusapally	9908447816	
44	N. Suresh	Vennaram	7675072710	
45	N. Narasimha Rao	Vennaram	9000431649	
46	N. Srikanth	Ramulu Thanda	9989513504	
47	G. Mohan	Gudur	9989585182	
48	N. Vijay	Gudur	9440724077	
49	SK Johnny	Dornakal	7799535300	
50	K. Srikanth	Dornakal	9966332135	
51	P. Rajanikanth	Hyderabad	9849575147	
52	T. Naresh Singh	Dornakal	9030481841	
53	V. Anitha Sree	Mahabubabad	8374449388	
54	Ch. Siva Kameshwar	Hanamkonda	8886331220	
55	M. Srinu	MARI	9966751383	
56	K. Kiran	MARI	9160148285	
57	T. Suresh	MARI F.E.	776600407	

LIST OF PARTICIPANTS OF WORKSHOP AT BALA VIKASA TRAINING CENTRE, WARANGAL

Date: 20-09-2015

Sl.No.	Name	Village	Mobile No.	Signature
1	M. Jagan	Kothapally SM	9989221459	
2	S. Sammaiah	Issipeta	9949701479	
3	Ch. Rajamallu	Issipeta	9848391739	
4	S. Janardhan Rao	Rangapur	9948446216	
5	V. Bhaskar Rao	Rangapur	9912218752	
6	Md. Naseeruddin		9908861960	
7	K. Kiran Kumar	Peddakodepaka	9010752566	
8	Ch. Devennder	Peddakodepaka	9603906267	
9	B. Ramesh	Warangal	8500998280	
10	P. Rambabu	Shayampeta	8096674625	
11	G. Mahender Reddy	Shayampeta	9542972621	
12	L. Raju	GoriKothapally	9912682693	
13	D. Sanjeevarao	GoriKothapally	9951024715	
14	V. Lingaiah	GoriKothapally	9948308341	
15	D. Raju	GoriKothapally	9948129406	
16	S. Bixapathi	GoriKothapally	9948728253	
17	S. Madhukar	Nizampally	9951202901	
18	S. Ashok	GRG	984870930	
19	N. Ashok	Nizampally	9948801381	
20	N. Krishna	Vellampally	9866661029	
21	B. Sadanandam		8897404390	
22	Ch. Jeepal Reddy	Pathipaka	9948526107	
23	R. Rajireddy	Pathipaka	9490602821	
24	K. Samba Reddy	Kothapally	9441558987	
25	K. Raji Reddy	Kothapally	8897238354	
26	S. Sudhakar	Kothawada, WGL	9032169202	
27	J.L. Murthy	F.E.	9441991822	
28	S. Venkateswarlu	Mucherla	9866916712	
29	B. Sai Reddy	Mucherla	7702260499	
30	K. Sudhakar Reddy	Mucherla	9908284471	
31	B. Purushotham Reddy	Wadlakonda	9539192333	
32	A. Aga Reddy	Namiligonda	9866061237	
33	P. Ram Reddy	Namiligonda	9989899017	
34	T. Rajeshwar	Vasanthapur	7660878654	
35	B. Ramulu	Vadlakonda		
36	K. Jalandhar	MARI	7660878653	
37	E. Stalin	MARI	7660895500	
38	P. Kalavathi	MARI	9000593853	
39	M. Vijayalaxmi	MARI	7660878656	



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ಕ್ರ.ನಂ	ಹೆಸರು	ಪ್ರಾ.ನಂ	
1	ಮುಸ್ಲಿಂ ಮಹಿಳಾ	ಅಳಿಪೇಟೆ	
2	ಮ. ಚಂದ್ರಪ್ಪ	"	
3	ಶ್ಯ. ಅಪ್ಪ	Vennaram	
4	ಶ್ಯ. ಅಪ್ಪ	Vennaram	
5	ಮ. ಮಲ್ಲಪ್ಪ	ಕಾಂಪು	
6	B. Navsiah	Rajole	
7	S. Veerabharam	Rajole	
8	B. haminarayana	Muthosipeta	
9	B. veeranna	Muthosipeta	
10	D. Veerabhadram	MHB	
11	K. Krishna	APPARGUPALLY	
12	T. Omeshyadao	APPARGUPALLY	
13	K. Veeranna	APPARGUPALLY	
14	K. Yakubah	Mardhavapuram	
15	P. Charan		
16	A. Ramesh	Shyampet - C.C. MARI	
17	B. Ramesh	Madhavapuram	
18	T. Ramesh	Kuravi	
19	B. Ravi	Kuravi	
20	P. Mallesh	Kuravi	
21	A. Krishna	Kothaguda	
22	A. Nagesiah	Kothaguda	
23	B. Nagaraj	S/S	
24	N. Sambasivulu	S/S	
25	A. haminarayana	Chikoodu	
26	A. Suresh	Chikoodu	
27	R. Jander	Chikoodu	
28	T. Ramshettam	Chikoodu	
29	K. Sathish	Nekkonda	
30	Rampalad	Nekkonda	
31	N. Ravi	Guelur	



ನಂ. ಸಂಖ್ಯೆ	ನಾಮ	
7659952559	M. Yashraj	
9346488289	M. Venkatesh	
9666103711	ಅಜಯ	
9701401949	ನ. ಕೆ. ವಾಸು.	
9177913175	M. Mahesh	
9966335581	K. N. Nandiah	
9985029955	ಕೆ. ಎ. ರಾಜೇಶ್	ಸ. ಎ. ರಾಜೇಶ್
9966751385	ಬಿ. ಎ. ರಾಜೇಶ್	ಬಿ. ಎ. ರಾಜೇಶ್
9966870156	ಡಿ. ಎ. ರಾಜೇಶ್	ಡಿ. ಎ. ರಾಜೇಶ್
9642754441	ಡಿ. ಎ. ರಾಜೇಶ್	
9394012842	ಹೆಚ್. ಎ. ರಾಜೇಶ್	
8866913530	T. Anesh	
9966885957	ಕೆ. ರಾಜೇಶ್	
9550283702	ಕೆ. ರಾಜೇಶ್	
9908322963	Charan	
9948132092	A. R. Raj	
9985928603	ಬಿ. ಎ. ರಾಜೇಶ್	
9966859608	T. Rajesh	
9985781320	B. Raj	
9703653161	T. Rajesh	
9010648880	A. Rajesh	
9848826984	A. Rajesh	
9895377397	B. Rajesh	
9966070483	N. S.	
9948787443	G. Rajesh	
9848685582	S. Rajesh	
9553389609	R. Rajesh	
-	T. Rajesh	
9154527012	K. Rajesh	
9666194454	K. Rajesh	
94436740	ಡಿ. ಎ. ರಾಜೇಶ್	
9542434179	ಡಿ. ಎ. ರಾಜೇಶ್	
9550100208	S. Srinivas	



No	Name	Address	Phone No	Signature
34	B. Ramesh	Maunegudem	937474853	B. Ramesh
35	T. Venkateshwarlu	Maunegudem	9010133701	T. Venkateshwarlu
36	Koteswara Rao	Maunegudem	9177643162	A. Koteswara Rao
37	Ch. Nageswara Rao	Mulakalapally	8008652247	CHPT Rao
38	Ch. Upendar	Mulakalapally	96661531865	chupendar
39	T. Uppalaiah	Thodalelagudem	9919116573	T. Uppalaiah
40	P. Srinivasulu	Thodalelagudem	9603316114	P. Srinivasulu
41	M. Sathyan	Thodalelagudem	9603299141	M. Sathyan
42	P. Sham Sunder Reddy	Edlupisepally	9440948665	P. Sham Sunder Reddy
43	K. Srinivas Reddy	Edlupisepally	9908447816	K. Srinivas Reddy
44	N. Suresh	Vennaram	7625072710	N. Suresh
45	N. Narasimha Rao	Vennaram (Gudem)	9000431649	N. Narasimha Rao
46	N. Srikanth	Ranulathur	9989513350	N. Srikanth
47	G. Mohan	Gudem	9989585182	G. Mohan
48	N. Vijay	Gudem	9140724077	N. Vijay
49	S. Johnny	Dornatal	7799535300	S. Johnny
50	K. Srikanth	Dornatal	9966332135	K. Srikanth
51	P. Rajanikant	Hyderabad	9849575117	P. Rajanikant
52	T. Navesh Singh	Dornatal	9030481841	T. Navesh Singh
53	V. Anitha Sree	Malkajgiri	8374449368	V. Anitha Sree
54	Ch. Sivakumaran	HMK	9886331220	Ch. Sivakumaran
55	M. Srinu	MARI	9966751383	M. Srinu
56	K. Kiran	MARI	9160148285	K. Kiran
57	T. Suresh	MARI-FF	776600407	T. Suresh
58				
59				
60				


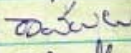
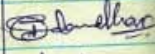
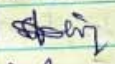
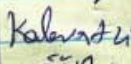
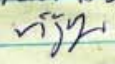


Hanamkonda, Warangal-

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S.No	Name	Village	Mobile No.	Signature
1	M. Jagan	Kothapally-sm	9989221459	
2)	S. Srinivas	Madhupeta	9949701479	
3)	Ch. Rajamallu	Issipeta	9848391739	
4.	S. Tamardhanthou.	Kangurpur	9948446216	
(5)	V. Bhaskar Reddy	Rangapur	9912218752	
6)	Md. Naseer Uddin	Md. Naysum	9908861960	
7)	K. Kiran Kumar	peddakodapaka	9010752566	
8)	Ch. Devender	peddakodapaka	9603906267	
9)	B. Ramesh	warangal	8500998280	
10)	P. Rambabu	shayampeta	8096674625	
11)	G. Mahendar Reddy	shayampeta	9542972621	
12	L. Raju	Gori Kothapally	9912682693	
13.	D. Sanjeev Reddy	Gori Kothapally	9951024715	
14)	V. Lingaiah	Gori Kothapally	9948368341	
15)	D. Raju	Gangireinigudem	9948129406	
16	S. Bixapathi	Gangireinigudem	9948728253	
17.	S. Mathuraz	Nizampally	9951202901	
18	S. Ashok	ABG	984870930	
19)	N. Ashok	Nizampally	9948801381	
20)	N. Krishna	vellampally	9866661029	
21)	B. Sadanarayan	"	8897404390	
22)	Ch. Jeepr Reddy	pedhipaka	9948526107	
23	R. Raji Reddy	"	9490602821	
24	V. Subbar Reddy	Kothapally	9441558987	
25	K. Raju Reddy	Kotaru Pally	9907228257	
26	S. Susha Kany	Kothavada WCL	9032169202	
27	J. L. Morkts	FG	9441991822	
28	S. Venkateswarlu	mechenla	9866916712	
29	B. Sankar Reddy	mechenla	7702260499	
30	K. Susha Kany Reddy	mechenla	9908281471	
31	B. Purushankumar Reddy	wadlakonda	9939192339	

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S.N	Name	village	mobile no.	signature
34	T. Rajeshwari	robanthapur	7660878654	
35	B. Ramulu	wasalakond.		
36	K. Talandhar	MARI	7660878653	
37	C. srain	"	7660895500	
38	P. Kadavathi	"	9000593853	
39	M. vijayalaxmi	"	7660878756	

Copy of presentations used by resource persons:



WRM - SCJ



Warangal
Hydrogeological cond



Sustainable Ground
Water Management 8

Workshop Photographs:



Workshop at KrishiVigyan Kendra, Malyal, Mahbubabad



Workshop at BalaVikasa Training Centre, Warangal