

# Note on Exposure Visit of farmers on Water Resource Management – Rain Water Harvesting and Water Use Efficiency in Crops



Meeting with Committee Members



Understanding micro-irrigation



Feedback session

September 12, 2015

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## Purpose

Create awareness among the farmers on water use efficiency and climate resilience cropping patterns by organizing visit of farmers from 15 villages, District Warangal.

## Project site visited

Waddicherla and Vanaparthy, Jangaon Mandal, District Warangal

## Facilitating Agencies

- Exposure visit organized by Safe Water Network India
- Project holder: Centre for Rural Operation Programmes Society, Jangaon
- Technical support agency: Centre for World Solidarity (CWS), Hyderabad

## Participants

55 farmers and staff from partner organization participated in the exposure visit. List of participants with name of villages is attached as Annexure. Along with farmers two staffs from Safe Water Network India (Shanker Batra & Ravi Bhoopathi) and six staff members from Modern Architects for Rural India (MARI) participated in the exposure visit to facilitate the discussions.

## Key activities seen by the visiting farmers group:

- Bore Well Recharge Method for Water Harvesting – It is costing around Rs 40,000 per bore well recharge measure. A test is conducted to estimate the rate of recharge. It varies from place to place, depends on hydrogeological condition of site.
- Micro Irrigation – CWS has developed a micro-irrigation system called one acre micro-irrigation system; it is cost effective and suitable for the farmers having small land holding and low yielding bore wells. People are using micro-irrigation system in vegetable and cotton fields.
- There is shift in agriculture practices in the village due to project interventions. Farmers adopted cultivation of dry land crops like cotton, vegetables, etc. and area of paddy cultivation is reduced which consume maximum quantity of water. The system of rice intensification practice is adopted in rice cultivation which requires less water and increases production.
- Constructed sump wells to store water on the surface and use it when required.
- Rain gauge is installed to collect rainfall data and recording water level fluctuation seasonally. Trained farmers on participatory hydrological monitoring methods and using the information in crop water budgeting.
- A committee has been formed for Suwgam (Sustainable Ground Water Management) project. This committee is taking care of all the project interventions and responsible for creating awareness in the village on water and crop related aspects.
- Role of local institution – Mobilization of contribution and technical support training etc.
- A water treatment plant has been installed in villages which is managed by women's Self Help Group
- Village map & water level data display on walls
- Community organization

### Process followed for providing the information

During the exposure visit community meeting organized at a community hall in village Waddicherla. The staff of CROPS facilitated the discussion by introducing the visiting group and explained the purpose of visit. The Sugwm project committee members, local elected persons (Sarpanch, ward members, MPTC members, etc.) shared the information about project interventions. During the process, participants also interacted with the committee members and villages present. This session was very interactive which was held prior to field visit to farmer's field and demonstration sites. A feedback session also organized at School campus in Vanaparthi village after the field visit.

All the above listed activities were explained by the staff of CROPS, committee members and village leaders.

### Activities liked by the farmers

In general the participants liked the cleanliness maintained in the villages, roads, drainage system, display of information in common place, maps and involvement of committee in the project. The decision making process adopted by committee was appreciated by the visiting members as they found unity in the village for contribution and various development activities including Sustainable water resource management. They were also showed keenness in understanding the One Acre Drip System in detail. Following are the three activities like most by the visiting farmers group and expressed interest to know more.

- One Acre Drip Irrigation System
- Artificial Recharge Method for revival of dry bore wells
- Process adopted in villages for community mobilization and community contribution towards the project interventions

### Key observations

- Committee was formed to mobilize Rs. 200,000 contribution for the Sugwm project, Gram Panchayat water supply bill payments are regularized to achieve continuous availability /supply of drinking and irrigation water to the village
- Pond de-siltation, sump well construction to avoid pressure losses – damages in piped water supply, recharge of bore wells and Reverse Osmosis based water treatment plant
- Women's Self Help Group contributed Rs. 40,000 for water treatment plant, which is now managed by the groups
- Other important activities carried out under the project are Sanitation block construction, de-siltation of agriculture wells and improvement of electricity infrastructure
- The farmers explained that the total storage capacity of rainfall run-off increased in the village and drip irrigation system helped in increase area under crop

Safe Water Network India team shared the activities undertaken in 15 selected villages to the villagers – like Rain Water Harvesting, Reject Water Management, Ground Water Level Monitoring and involvement of farmers in water budgeting exercise.

Following are the few expressions from farmers participated in exposure visit.

- Shanker from Kothapalli (KNR) was impressed with the results of dry bore well recharge and showed interest to take the activity in his village
- Ravinder from the same village said – as per his experience making holes in the casing is good enough to recharge the bore well instead of investing high amount in pit and filter media. The purpose of filter media explained to him.
- Ashok from Nizampalli – appreciated the imitative of villagers for construction of sump well to solve the water supply problem
- Krishnaiah from Vellamapally pointed out that the unity of villagers/farmers is the key for their achievements, he has also shared the gaps in in his village and expressed desire to take up some of the activities seen during the exposure visit.
- Ramireddy from Jookal – unitedly they have achieved not only the water issues but also good roads, drainage etc.
- Representatives of SWNI and MARI spoke on benefits of such exposure visits and need of integrated water resource management program in the villages.

## Annexure

### List of Participants In Exposure Visit To Jangaon

#### Village Waddicherla, Mandal Jangaon, District Warangal

Date:12/09/2015

Sl.No.	Name	Village	Designation	Mobile No.	Signature
1	Lone Raju	Gorri Kothapally	Plant Operator	9912682693	
2	Thati Rajeshwar	Vasanthapur	Field Executive	7660878654	
3	B. Naga	Chinna Kodepaka		9652953844	
4	Vardhini Rajeshwar Rao	Nijampalli		9948437176	
5	Dasari Raju	Gangireni Gudem		9948129406	
6	Shanam Bikshapathi	Gangireni Gudem		9948728253	
7	Nalubola Krishnaiah	Vellampally	Agriculture	9866661029	
8	Nutenki Ramulu	Vellampally	Agriculture	9848871896	
9	Ravula Vijender Reddy	Vellampally	Agriculture	9390167747	
10	Reguuri Venkataiah	Vellampally	Agriculture	9912218780	
11	M. Srinivasulu	Shyampet	Agriculture	8648871896	
12	M. Rajender	Ragapur	Agriculture	9603220962	
13	M. Sampath	Katrapally	Agriculture	9963307918	
14	O. Veeraswamy	Katrapally	Agriculture	9959236151	
15	K. Sathaiah				
16	Uppalaiah				
17	Ch. Vijender Reddy	Pathipaka	Agriculture	9912539425	
18	Bandi Sarangapani	Pochampally	Agriculture	9985400724	
19	Sodu Ashok	Pochampally	Agriculture	9949820726	
20	S. Mallaiah	Jookal	Agriculture	9705043993	
21	S. Rajeshwar Rao	Jookal	Agriculture	9000406358	
22	Douthi Ram Reddy	Jookal	Agriculture	9948731738	
23	K. Malla Reddy	Jookal	Agriculture	9959779765	
24	B. Sriman Narayana	Rangapuram	Agriculture	9542533577	
25	P. Kalavathi	Hanumakonda	MARI – FE	9000593853	
26	M. Vijayalaxmi	Shyampet	MARI – FE	7660878656	
27	D. Vengal Rao	Kothapally Gori	Agriculture	9948103375	
28	Nandre Ashok	Nijampalli	Agriculture	9948801381	
29	Sandoju Madhuker	Nijampalli	Agriculture	9951202901	
30	P. Ranga Reddy	Vaddicherla	Agriculture	9848870930	
31	Gandi Yadagiri	Vaddicherla	Agriculture	9391379781	
32	Gundarapu Mahender Reddy	Shyampet	Agriculture	9542972621	
33	Medipally Kumaraswamy	Pasarigonda	Agriculture	9603237913	
34	Manda Vijaykumar	Pasarigonda	Agriculture	9966283932	
35	Manda Kattaiah	Pasarigonda	Agriculture	9059638329	



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36	Chittareddy Rejireddy	Pathipaka	Agriculture	9492443058	
37	R. Anjaiah				
38	Chittareddy Prakash Reddy	Pathipaka	Agriculture	9573852957	
39	Vannala Shivaji	Kothapally Gori	Agriculture	9948308341	
40	S. Vedantha	Hanumakonda	ED – MARI	9396939330	
41	K. Anjaiah	Vaddicherla		8008883568	
42	S.L. Batra	SWN	Operation Manager	7417374174	
43	J.L. Murthy	MARI	FE	9441991822	
44	K. Jalandhar	MARI	Cluster Co-ordinator	7660878653	
45	B. Ravinder	Kothapally	Teacher& Former	9505006784	
46	J. Narsaiah			9902120211	
47	Ravula Bhuchaiah				
48	A. Ellaiah	Vadlakonda			
49	K. Subas Reddy	Kothapalli		9441558987	
50	S. Ashok	Gangireni Gudem	Agriculture	9848870930	
51	M. Sammaiah	Vadlakonda	Agriculture	9849775268	
52	Nagula Shankar	Kothapally	Farmer	9441603901	
54	K. Sammakka		Committee Member		
55	B. Ramesh	Secretary, SuGWM, Vanaparthi	Crops	9299001002	
56	K. Srikanth	Vanapathy	Crops	8501885148	
58	K. Surender Reddy	Vanapathy	FO SGWM Crops	9603793322	
59	J. Vishnu Murthy	Jangaon	PC - SuGWM Crops	9603035333	



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Waddicharla. Coop 12/09/15  
8 Jangam

పేరు	గ్రామం	వృత్తి	సెల్ నెంబర్	సంకేతం
అవినీ రావు	పల్లెపల్లి నాటి	Plant operator	9912682693	L. P. Raju
అ.వి. రాజీవ్	(Feild) Kankarapeta	Feild Executive	7660878654	DR
G. Nagaraj	బిల్లికొండ		9652957244	TRU
పంపాని రామకృష్ణారావు	నీలంపల్లి		9948437176	V. Sankar Reddy
నాగి రామ	నందికొండ		9948129406	D. Sankar
నాగం బిక్రమ్	నందికొండ		9948728253	Sankar Reddy
నలుగూరి. (P) అంజనేయ	వల్లంపల్లి	వ్యవసాయం	9866661029	N. K. Reddy
పాపి. రామ	వల్లంపల్లి	వ్యవసాయం	9848871896	N. Sankar
కాకిల వల్లంపల్లి	వల్లంపల్లి	వ్యవసాయం	9390167747	Ravi Kumar
కాకిల. వల్లంపల్లి	వల్లంపల్లి	వ్యవసాయం	9912218780	R. V. Reddy
M. Srinivasulu	Shyampet.	వ్యవసాయం	8688594210	M. Srinivasulu
M. Rajala	Rajapur	BSc (Eng)	9605220962	Rajala
M. Sankar	కాకిల	వ్యవసాయం	9963307918	M. Sankar
O. Sankar	//	//	9959236151	O. Sankar
ఉప్పల అక్ష				
Dr. Vignarajah	Potturam	స్ట్రక్చరల్	9912530000	Dr. Vignarajah
Bandi. Sankar Reddy	Pochampally	" "	9985400724	B. Sankar Reddy
Sodhi. A. Shank	"	"	9949820726	Sodhi. A. Shank
Mallala	Jookal	వ్యవసాయం	9705043993	Mallala
Sankar	"	"	9900406358	Sankar

14	O. Sankar	//	//	9959236151	O. Sankar
15	ఉప్పల అక్ష				
16	ఉప్పల అక్ష				
17	Dr. Vignarajah	Potturam	స్ట్రక్చరల్	9912530000	Dr. Vignarajah
18	Bandi. Sankar Reddy	Pochampally	" "	9985400724	B. Sankar Reddy
19	Sodhi. A. Shank	"	"	9949820726	Sodhi. A. Shank
20	Mallala	Jookal	వ్యవసాయం	9705043993	Mallala
21	Sankar	"	"	9900406358	Sankar
22	Bouthi. Ramireddy	Jookal	వ్యవసాయం	9948731738	Bouthi. Ramireddy
23	Kandli. Mallareddy	Jookal	వ్యవసాయం	9959779765	Kandli. Mallareddy
24	B. Srinivas Reddy	Rampuram	"	9542552572	B. Srinivas Reddy
25	P. Kalavathi	Hampuram	MARR-LL	9000593853	P. Kalavathi
26	M. Vijaya Lakshmi	Shyammit	MARR-LL	7660878656	M. Vijaya Lakshmi
27	D. Jagan Mohan	Nizampally	వ్యవసాయం	9948103375	D. Jagan Mohan
28	Nandee. Ashok	"	"	9948801381	Nandee. Ashok
29	Sandee. Madhukar	"	"	9951202901	Sandee. Madhukar
30	P. Ranga Reddy	Waddicharla	వ్యవసాయం	9848870980	P. Ranga Reddy
31	ఉప్పల అక్ష	ఉప్పల అక్ష	వ్యవసాయం	9391379781	ఉప్పల అక్ష
32	నందికొండ	నందికొండ	"	9542972621	నందికొండ
33	పల్లెపల్లి	పల్లెపల్లి	వ్యవసాయం	9603237913	M. Kumar



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Sl. No	పేరు	చేతనం	వృత్తి	సం. సంఖ్య	సంఖ్య
4	manda vijaykumar	village: Basarigonda.	A.G.L	9966283932	m.v.kumar
5	manda. Kattalah.	" " "	A.G.L.	9059638529	M.kattalah
	చిట్టెండ్ల రాజు	చిట్టెండ్ల	AGL	91492443056	chellu
	చిట్టెండ్ల సుబ్బారావు	చిట్టెండ్ల	Agricultural	9573852957	Subbarao
7	వంశీ కృష్ణ	Kothapally (Goni)	Agricultural	9748308341	V. Sri Vg
8	S. VADANATHAN	MARK	ED	9396929320	S.V
1	Kesava	అంజుల	జ్యు	8008833568	ANDU
2	S. L. Batra	SWN	Operation Mng	7417374174	Shankar
3	J. L. murthy	MARI	PE	9441991822	J.L
4	K Jalandhar	MARI	Climate consultant	7660878653	K.J
5	B. Ravinder	Kothapally mdi: B.d Pally	Teachers & farmer	9505006784	B.R
	కొత్తపల్లి మధ్య	కొత్తపల్లి మధ్య		99902126211	కొత్తపల్లి
	A. సుబ్బారావు	కొత్తపల్లి			అంజుల
	Kolci Subbarao	Kolci Pali	Agri	9441558887	Subbarao
	అంజుల స. ఆశా	అంజుల	Agri	9848870930	S. ASHOK
	Sudhakar	అంజుల	Agri	9849775268	Sudhakar
2	Nagula. Shankar	Kothapally	Farmer	9441603901	Nagula
	B. Ramesh	Vannakent	Secretary	9299001002	B.R
	K. Srikanth	Secretary. Sugam	CROPS	8501885148	K.S
	K Sureshwar Reddy	Vanaparthy	Fo'SUGAM CROPS	9603793322	K.S
8	K Sureshwar Reddy	Vanaparthy	Fo'SUGAM CROPS	9603793322	K.S
9	J. Vishnu Murthy	Vanaparthy	PC-SUGAM CROPS	9603025333	J.V

### Photographs of the Exposure Visit

