Tamil Nadu Water Week 2014

Water Management for Sustainable Development.

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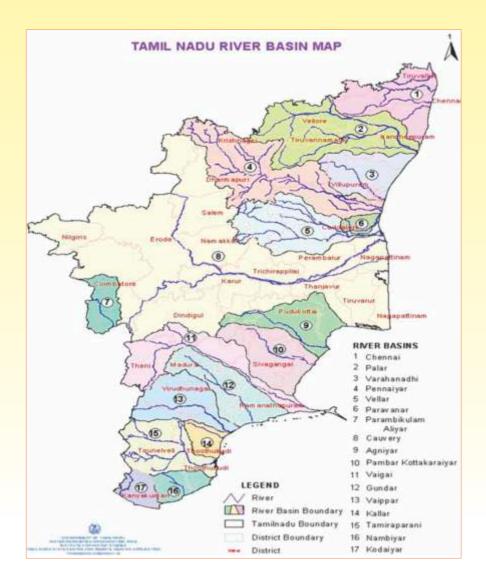
December 8-12, 2014

Programme Schedule Handboo

Organised by



DHAN Foundation Madurai





Tamil Nadu Water Week 2014 Water Management for Sustainable Development December 8-12, 2014

Tamil Nadu and Water resources

Every day, the humanity needs more water across the State to produce food to meet the demands of about increasing population added every year. Moreover, better quality water is required to defuse the health /sanitary bombs created by human negligence in many mega cities and to preserve and upkeep the bio diversity of ecosystems for future. The fresh water resources across the State need to be protected. Neglect in protecting Tamil Nadu State heritage and/or dying wisdoms of natural resources in many parts of the State since independence could prove extremely dangerous for the survival of humanity and for all the species in near future.

Key status of water resources scenario of Tamil Nadu accounts for

- The Tamil Nadu State accounts for 4 percent of the land area and 6% of the population, but only 3 % of the water resources of the country.
- Total water demand in the State for irrigation, domestic, livestock and industrial need is 1867.85 tmcft (Thousand million cubic feet) for a year (as on 2013).
- The total water availability for all resources is only 16871.78 tmcft.
- Tamil Nadu had three reservoirs before independence and added 82 in last 6 decades and boasts of 39200 minor irrigation tanks.
- The State gets relatively more rainfall during North East Monsoon, especially, in the coastal regions. The normal

rainfall in south west and north east monsoon is around 322 mm and 470 mm.

- Similarly the per capita water availability of the state is 800 cubic meters which is the lower than then National average of 2300 cubic meters.
- Sedimentation in the reservoir has resulted the reduction of capacity of reservoir between 2% and 59%.

The second edition of Tamil Nadu Water Week 2014 is being convened during <u>8-12 December 2014 at Madurai</u>. The theme of the event is <u>Water Management for Sustainable</u> <u>Development</u>. This event would focus more on **demand management** of water resources for sustainable solutions of the present water resources challenges and issues for competing demand of water for various sectors like agriculture, drinking and other multiple uses.

Challenges faced by the State: Challenges faced by the state are

- 1. Fast pace of urbanization
- 2. Degradation and/or reduction of cultivable lands
- 3. Lack of integrated approach on water management using both surface and ground water judiciously
- 4. Cost effective technologies to treat or reuse(Waste water generated at household and at industries
- 5. Limited encouragement for water saving technologies
- 6. Lack of effective management and governance on water sector

Water Demand management: Necessity and New thinking:

In its vision document, Tamil Nadu State envisaged fresh water demand of multiple sectors including agriculture is estimated around 35820 MCM in the year 2050. But the present water supply potential from 66 reservoirs in 17 river basins and 39200 minor irrigation tanks along with ground water could meet only 28361 MCM as on date. The vast gap of demand and supply in case of Tamil Nadu necessitates various stakeholders to innovate and or invent new approaches /strategies on efficient water use for higher water productivity.

Purpose

- 1. To take stock of water supply and demand gaps and list out of challenges thereof
- 2. To showcase proven experiences and success stories from the grassroots, academia, research etc.,
- 3. To highlight the 'voices' of 'un heard' namely the neerkattis, small farmers and find alternative solutions for the issues faced.
- 4. To evolve a frame work for sustainable water demand management

Convening organisations

- DHAN Foundation
- WTC and Agriculture College and Research Institution, Madurai of TNAU
- Centre for Water resources Anna University, Chennai
- Madras Institute of Development Studies, Chennai
- NABARD, Chennai
- Thiyagarajar College of Engineering, Madurai
- Fatima College, Madurai
- DHAN Vayalagam (Tank) Foundation

Pathways:

The five days intensive deliberations would end up with 'Madurai Declaration for solid actions' by the State Civil society and all relevant stakeholders. The day wise programme schedule is given in the following pages.

Inauguration of Tamil Nadu Water Week 2014 and Launch of Indian Network of **FA**rmers Federation for w**A**ter **R**esources **M**anagement (INFARM)

on Dec 8, 2014 (Monday) 9.30 am – 1.00 pm at DHAN Foundation Organized by DHAN Foundation

9.30 am	:	Registration by participants
10.00 am	:	Inauguration of Water Exhibition
10.15 am	:	Prayer
		Welcome address A.Gurunathan, <i>Chief Executive, DVTF</i>
		Lighting the lamp
		Special address Ms.Rohini B Ramdas, IAS., Addl. Collector DRDA Madurai
		Keynote address
		Dr.S.Natarajan, Ph.D., Vice-Chancellor, Gandhigram Rural Institute (Deemed University), Dindigul
		Inaugural and Chief Guest address
		Shri. K.V.Rao, Chief General Manager, National Bank for Agriculture and Rural Development (NABARD), Tamil Nadu Regional Office, Chennai
		Felicitation by
		 Dr.V.Abhaikumar, Principal, Thiyagarajar College of Engineering, Madurai Dr.B.J. Pandian, Director, Water Technology Centre, TNAU,
		Coimbatore Mr.M.P.Vasimalai, Executive Director, DHAN Foundation,
		 Madurai Dr.K.Sakthivadivel, Emeritus Professor, Centre for Water Resources, Anna University, Chennai
12.00 noon	:	Launch of Indian INFARM facilitated by Mr.S.P.Madhan Mohan, Team Leader, DVTF
12.30 pm	:	Release of Policy Brief on Inland Fisheries by
12.50 pm		Mr.R.Vasavalingam, President, Vayalagam Mutual Movement
12.50 pm	:	Vote of thanks
		Mr.N.Venkatesan, Chief Operating Officer, DVTF
12.55 pm	:	National Anthem
1.00 pm – 2.30 pm	:	Lunch

People seminar on Demand management in Tank Irrigation system

on Dec 8, 2014 (Monday) 2.30 am – 5.30 pm at DHAN Foundation Organized by DHAN Vayalagam (Tank) Foundation

2.30 pm to 2. 35 pm	:	Welcome Mr.Pathinettampadiyan, Project Executive
2.35 pm to 3.15 pm	:	Inaugural Remarks Panelist: Dr.R.Sakthivadivel Dr.K.Palanisami Dr.B.J.Pandian
3.15 pm to 3.30 pm	:	Lead paper presentation Mr.J.Mohan, Team Leader
3. 30 pm to 4.15 pm	:	Experience sharing on Demand Management Farmer leaders of Vayalagam Federations
4.15 pm to 5.00 pm	:	Open discussion
5.00 pm to 5.15 pm	:	Concluding Remarks by the Panelist
5.15 pm to 5.25 pm	:	Declarations Mr.N.Rajasekaran, Programme Leader
5.25 pm to 5.30 pm	:	Vote of Thanks Mrs.B.Saral Navroji, Project Executive

People Seminar on "Farm Ponds as Climate Smart solutions in Rainfed regions"

on Dec 8, 2014 (Tuesday) 2.30 pm – 5.30 pm at DHAN Foundation, Madurai Organised by Climate Change Adaptation, DHAN Foundation

02.30 PM	:	Welcome and overview Adhinarayanan R
2.40 PM	:	Lead paper presentation Adhinarayanan R
2.55 PM	:	Farm pond : Adaptation to climate change experience sharing R.Ilangovan, Kilankulam, T.Kallupatti block
3.15 PM	:	Experience sharing by Farmer Farmer from Saveriyarpatnam, Ramanathapuram district
3.20 PM	:	NABARD experience on Farm pond to adapt climate change Mr.Nagarajan, DGM , NABARD
3.25 PM	:	P.Subburaj, Avarampatti
3.30 PM	:	Chief guest address Shri. K.V. Rao, Chief General Manager, NABARD, TNRO, Chennai
3.45 PM	:	Sub group discussion
4.45 PM	:	Sub group presentation and synthesis K.Saravanakumar
5.30 PM	:	Policy recommendations and concluding

Workshop on Water Management for Sustainable Development - Agriculture and Irrigation

on Dec 9, 2014 (Tuesday) 9.30 am – 12.20 pm at Agricultural College & Research Institute (AC& RI), Madurai Organised by WTC, TNAU

Inauguration

9.30 am : Registration

Welcome address

Dr. B.J.Pandian, Ph.D, Director,

Water Technology Centre, TNAU, Coimbatore.

Felicitation

- Dr. K. Palanisami, Director, IWMI, Hyderabad.
- **Dr.V.Veerabadran**, Rtd.Professor(Agronomy), TNAU, Coimbatore

Inaugural Address

Dr. C.R.Shanmugam, Former Dean,(AEC&RI), TNAU,Coimbatore

Key note Address

Dr. K. Ramasamy, Vice-Chancellor, TNAU,Coimbatore.

Vote of Thanks

Dr. C. Chinnusamy, Dean, AC&RI Madurai

Technical Session: Agriculture & Irrigation

Chairman Rapporteur	:	Dr. Veerabadran, Retired Professor (TNAU) Dr A.Gurusamy, Prof(Agronomy) AC & RI, Madurai
	:	Dr. Veerabadran, Retired Professor (TNAU)
11.30*		Water Management- Issues & Challenges in Periyar Vaigai Command.
11.30 - 12.00*	:	Dr.C.R.Shanmugam, Former Dean . AEC&RI,(TNAU)
		Water Management in Tank Fed Agriculture.
	:	Dr.K.Palanisami, Director, IWMI, Hyderabad
12.30*		Water Management in Tamil Nadu: Economic dimension and new thinking.
12.30 –	:	Dr.B.J.Pandian, Director, Water Technology Centre
01.00*		Role of SRI in Sustainable Agriculture – IAMWARM success stories in Tamil Nadu
1.00 – 2.00	:	LUNCH
2.00 – 4.00	:	Exhibition, Display and Interaction with farmers on Water Management Practices.
		Dr.A.Raviraj and Dr A.Gurusamy
		* Descentation will be af 00 minutes duration and 40

* Presentation will be of 20 minutes duration and 10 minutes interaction

Seminar on Economics of Water Demand Management

on Dec 10, 2014 (Wednesday) 10.00 am – 1.00 pm at DHAN Foundation, Madurai Organised by Madras Institute of Development Studies (MIDS), Chennai.

9.30 to 10. Am	:	Registration
10.00 am to 10.30 am	:	A. Narayanamoorthy Department of Economics and Rural Development, Alagappa University, Karaikudi
10.30 am to 11. 00 am	:	Demand Management of Water and Drip Method of Irrigation Nexus D. Suresh Kumar , Professor Department of Agricultural Economics Tamil Nadu Agricultural University Coimbatore
11.00 am to 11.30 am	:	Can drip irrigation technology be an effective demand side management of irrigation Water? Floor Discussion
11. 30 am to 12.00 pm	:	S. Janakarajan, ICSSR Professor, MIDS, Chennai
12.00 pm to 12.30 pm	:	Sustainable Urban Water Management L. Venkatachalam, Associate Professor MIDs, Chennai Tradable Water Rights: Can it be a Potential Instrument for Managing Irrigation Water Demand?
12.30 pm to 1.00 pm	:	Floor Discussion and Conclusion

Policy seminar on Demand Management in Irrigation system

on Dec 10, 2014 (Wednesday) 9.30 am – 4.15 pm at Tata Dhan Academy, Melakkal, Madurai Organised by DHAN Vayalagam (Tank) Foundation

10.00am	:	Prayer and welcome
10.15 am	:	Purpose and background of the seminar
10.30 am	:	Opening address: Chairperson
10.45 am	:	Lead paper presentation
		Panel:
		Prof.C.R.Shanmugham, Former Dean, CAE, TNAU, Coimbatore
		Dr.K.Sakthivadivel, Emeritus Professor, Centre for Water Resources, Anna University, Chennai
		Dr.K.Palanisami, Director, IWMI, Hyderabad
11.00 am	:	Paper presentations by the practitioners / Experts
11.45 am	:	Tea break
12.00 noon	:	Paper presentations by the practitioners//Experts- continues
1.30 pm	:	Lunch break
2.30 pm	:	Subgroup discussions
3.30 pm	:	Plenary and concluding remarks by the panel

Workshop on

"Revival of Urban Water bodies: A Strategy for Sustainable Urban Water Resources Management"

on Dec 10, 2014 (Wednesday) 9.30 am – 4.00 pm at K.S. Auditorium, Thiayagarajar College of Engineering (TCE), Madurai Organised by TCE, Madurai

10.00 am	:	Inauguration
11.000 m	:	Restoration of water bodies in Urban areas – Need of the Hour
11.00a.m 11.45a.m.		Dr. M. Kaarmegam, Former Director, Centre for Water Resources, Anna University, Chennai
11.45 am-	:	Revival of water bodies – as adaptation strategy to climate change
12.30pm		Dr.Hopper, Director, Bio-industrial watershed, M.S. Swaminathan Research Foundation, Chennai.
12.30pm- 01.15pm	:	Groundwater Management in Urban Areas Dr. A. Subburaj, Sr. Scientist, Central Ground Water Board, Chennai
01.15pm- 02.15pm	:	Lunch
02.15pm- 03.00pm	:	Urban Ecology and Urban water management: The Significance of protecting water bodies Dr.S. Janakarajan, Professorial Consultant, MIDS, Chennai and SOAS, University of London
3.00- 4.00	:	Panel discussions and conclusions

Side event on Heritage Walk around Meenakshiamman Temple

on Dec 11, 2014 (Thursday) 7.00 am – 8.30 am at DHAN Foundation Organised by Tourism Development Programme of DHAN Foundation



Seminar on "S	Susta	ainable development on Water Resources and multiple uses of Water"
on	Dec	11, 2014 (Thursday) 9.30 am – 4.00 pm at DHAN Foundation
Organise	ed by	Centre for Water Resources, Anna University
09.30 am - :	Pap	er Presentation
12.30 pm	1.	Paper 1: Groundwater Management in the State of Tamil Nadu - Dr. R.Sakthivadivel
	2.	Paper 2: Strategy for the Sustainment of Urban Waste Water - Dr. S.Chandran
	3.	Paper 3: Protection of Waterbodies – A Legal Perspective – Dr. Carolin Arul
	4.	Paper 4: Sustainable Planning of Degraded Land in Semi-arid Basin for Climate Change Mitigation: an IWRM Approach – Joe Vivek David and Dr.Krishnaveni
	5.	Paper 5: Impact of Climate Change induced Droughts on River Basins – Vignesh Rajkumar.L., and Dr. Krishnaveni
12.30 pm- 02.30 pm	Pos Sus	ter Presentation on "Water Management for tainable Development"
	1.	An integrated approach to industrial water management - A. Shanthi and Dr. Carolin Arul
	2.	IAMWARM - An irrigation project of Tamil Nadu funded by World Bank - A. Vidhyaand Dr.N.K.Ambujam
	3.	Wavering climate- flaw and flow towards sustainable livelihood - A.Ellakiya Priyaa and Dr. Carolin Arul
	4.	Impact of climate variability on agricultural productivity - P. Anitha and Er. V. Ramji
	5.	Farm level adaptation to climate variability - Malarmathi Divinya.A and Dr. B. V. Mudgal
	6.	Land use Dynamics and food security - Nexus: The Challenge of Transformation - S.Monisha and Er.E.Arun Babu
	7.	Impact of urbanization on riparian zone and riparian rights – P. T.Santhana Krishnan and Dr.Carolin Arul
02.30 pm- 05.00 pm	Dis	cussion Forum - On Recent Water Crisis

DHAN Foundation

People Seminar on "Water Management Practices through Neerkattis (Traditional Water Managers)"

on Dec 11, 2014 (Thursday) 9.30 am – 4.15 pm at DHAN People Academy (DPA) Organised by DHAN Vayalagam (Tank) Foundation & DPA			
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10.00am	:	Registration Selvi. Thavamani & Ramya, Vayalagam Volunteers	
10.30 am	:	Prayer Smt. Kalaiselvi & Prabhavathy, Vayalagam Volunteers	
10.40 am	:	Welcome Address Mr. R. Prakash, Senior Project Executive, DHAN Foundation	
10.50 am	:	Lighting of Lamp Chief Guests	
10.55 am	:	People Seminar Introduction Mr. C. Kannan, Faculty, DHAN People Academy	
11.00 am	:	"Water Management Practices through Neerkattis"- Booklet & Short Film Release by Chief Guests	
11.05 am	:	Mahakavi Bharathiyar thoughts on Environment & Water Mr. P. Thirumalai, Programme Officer, DHAN Foundation	
11.20 am	:	Water Management Practices though Neerkattis - A Historical Perspective Dr. V. Vedhachalam, Archeologist, Madurai	
11.35 am	:	Lead Paper Presentation on Water Management through Neerkattis in Irrigation Tanks spread in Gundar River Basins Mr. N. Rajasekaran, Programme Leader, DHAN Foundation	
11.55 am	:	Neerkattis – A Short Film R. Sundarapandian, Radio Jockey, Vayalaga Vanoli 90.4 FM, Kottampatti	
12.05pm	:	Experience Sharing by Neerkattis from River Basins - Gundar, Pambar & Palar basins	

12.20 pm	:	Special Address Mr. N. Palaniraj, Treasurer, Vayalaga Mutual Movement Mr. R. Shankar Narayanan, District Development Manager, NABARD, Madurai Dr. M. Karmegam, Former Director, Centre for
		Water Resources, Anna University, Chennai
01.15 pm	:	Lunch break
02.15 pm		Bahour Irrigation tank & Neerkattis - Puducherry
•=··• p···	•	Experience
		Mr. P. Premanand, Programme Leader,
		DHAN Foundation
02.30 pm	:	Water Management in Pambar river basin
•		irrigation tanks
		Mr. J. Mohan, Team Leader, DHAN Foundation
02.45 pm	:	Water Management in Palar Kosasthalaiyar river
-		basin irrigation tanks
		Mr. R. Prakash, Senior Project Executive, DHAN
		Foundation
03.00 pm	:	Sub Group Discussion
		Group 1: Best Practices in Water Management by Neerkattis
		Rajasekaran, P. Premanand,
		R. Prakash, J. Mohan, V. Vediappan,
		Group 2: Livelihood Development Programmes for Neerkattis M/s N.M. Pathinettampadian, D.Ganesan, C. Kannan
03.30 pm	:	Sub Group Presentation
•		Mr. V. Vediappan, Faculty,
		DHAN People Academy
03.45 pm	:	Synthesis of Sub group findings
		Mr. D. Ganesan, Faculty,
		DHAN People Academy
04.00 pm	:	Declarations
-		Mr. Sethuraman, President,
		Kallikudi Vayalagam Federation
04.15 pm	:	Vote of Thanks
		Mr. M. Pathinettampadian,
		Project Executive, DHAN Foundation

Workshop on

	Workshop on		
	Vaigai River Restoration Pageant Project on Dec 11, 2014 (Thursday) 2.00 pm – 4.00 pm		
	at Jubilee Hall, Fatima College, Madurai		
	Organised by Fatima College, Madurai		
T !.			
Торіс	 'Vaigai River Restoration – An Ecological Perspective: Role of academia and Researchers' 		
Chair	: Prof. David Blake Willis		
	Fieldwing Graduate University, California, USA		
	Dr.S.Mohan		
	Professor, Environmental and Water Resources Engineering Department, Indian Institute of Technology, Chennai		
Co-Chair	: Er. R. Venkatasamy		
	Retired Superintending Engineer, Agricultural Engineering Dept, Govt of Tamilnadu		
Panelists	: Dr.S.Chandran		
	Associate Professor, Thiagarajar College of Engineering, Madurai		
	Mr. A.Gurunathan		
	Chief Executive, DHAN Vayalagam (Tank) Foundation, Madurai		
	Mr. A. Madhanakumar		
	Programme Leader, DHAN Foundation, Madurai		
	Dr.V.Vedhachalam		
	Retired Senior Epigraphist, Tamilnadu State Department of Archaeology		
	Side event on		
	Water Walk around Madakulam Tank		
	on Dec 12, 2014 (Friday) 10.00 am – 12.00 noon		
•	assemble at DHAN Foundation		
Orgar	nised by Madurai Urban Region & DHAN Vayalagam (Tank) Foundation		

DHAN Foundation

Seminar on Role of Watersheds in Tamil Nadu in Water Management and Sustainable Development

on Dec 12, 2014 (Friday) 10.00 am – 01.00 pm at DHAN Foundation, Madurai Organised by National Bank for Agriculture and Rural Development (NABARD)

10.00 am — : **New launch** 11.15 am

Welcome

• Shri.M.P.Vasimalai, Executive Director, DHAN Foundation, Madurai

Launch and Chief Guest Address

- Shri. K. Phanindra Reddy, I.A.S., Principal Secretary, Municipal Water Supply, Govt. Tamil Nadu, Chennai
- 11.15a.m.-:Watersheds and Water Management12.00 noonNABARD experience in the Tamil Nadu
 - Mr.S.Natarajan, General Manager, Watershed Division, NABARD - RO, Chennai
 - **Mr.W.Nagarajan**, WDF, NABARD PMU, Madurai
- 12.00 noon
- 12.30 pm:Farmers experience sharing12.30 pm-
01.00 pm:Open discussion, vote of thanks and concluding01.00pm-
02.00pm:Lunch

Valedictory event of Tamil Nadu Water Week 2014

	on Dec	12,	2014 (Friday) 2.30 pm – 4.30 pm at DHAN Foundation Organized by DHAN Foundation
2.30	pm	:	Welcome address
			Mr.A.Madhan Kumar, Programme Leader, DHAN Foundation
2.40	pm	:	Special address
			Dr.S.Mohan
			Professor, Environmental and Water Resources Engineering Department, Indian Institute of Technology, Chennai
3.15	pm	:	Conference key messages by
			 Dr.S.Natarajan, General Manager, NABARD, Chennai
			Dr.R.Sakthivadivel, Emeritus Professor, Centre for Water Resources, Anna University, Chennai
			• Dr.B.J. Pandian , Director (i/c), Water Technology Centre , TNAU, Coimbatore
			 Dr.K.Arunachalam, Dean & HOD, Thiyagarajar College of Engineering, Madurai
			Mr.M.P.Vasimalai, Executive Director, DHAN Foundation, Madurai
	pm –		Valedictory address
4.20	pm		Mr.C.Kathiravan, IAS, Commissioner, Madurai Corporation
4.20 4.25			Madurai declaration for Water Management
	F		Conference coordinator
4.25	pm		Vote of thanks Ms.J.Kanagavalli, Programme Leader
4.30	pm		National Anthem

CONSORTIUM PARTNERS

Water Technology Centre (WTC), TNAU

The WTC at Tamil Nadu Agricultural University (TNAU) is one among the three such centres in the country which was established during 1982 to cater to the needs of the Southern region in relation to research, extension and teaching. It plays a key role in making an assessment of the available resources of water and economic utilization for maximizing agricultural production with suitable on-farm water management practices developed for different situations.

Centre for Water Resources (CWR), Anna University

The CWR was established in May 1979 to pursue teaching, research, consultancy and impart training programmes in hydrology, water resources engineering, irrigation management and water quality and quantity management. It is basically the upgraded Hydraulics Division of the Department of Civil Engineering, College of Engineering, Guindy, Chennai.

Right from inception the Centre is academically supporting various subjects for B.E. Civil Engineering and selected subject for others branch students. In July 2006 Centre has started B.E., Agricultural and Irrigation Engineering with 40 students intact.

Madras Institute of Development Studies (MIDS)

MIDS was founded by Dr.Malcolm S Adiseshiah and Mrs.Elizabeth Adiseshiah, in January 1971, shortly after Dr.Adiseshiah's retirement as Deputy Director-General of UNESCO.

In 1976 the Government of India through the Indian Council of Social Science Research (ICSSR), New Delhi, sent a mission to study the possibility of developing MIDS into a national institute of social science research. On the recommendations of the mission the Institute was reconstituted as a National Institute in March 1977 under the joint sponsorship of the Government of India through the ICSSR and the Government of Tamil Nadu. The trustees gifted to the reconstituted

National Institute its land and buildings, its library, furniture and equipment and a cash endowment. The Reserve Bank of India established a Chair in applied research in regional economics in the Institute in 1985.

DHAN Foundation, Madurai

Development of Humane Action (DHAN) Foundation, a professional development organisation, was initiated on October 2, 1997. It brings highly motivated, educated young women and men to the development sector. They would make new innovations in development to root out poverty from the country, in thus achieving the Mission of the organisation. Currently it is working for the upliftment of poor in 14 States across the country and working directly with more than 1.4 million families.

DHAN has rooted in values, such as Grassroots action, Collaboration, Enabling, Innovation, Excellence, and Self-Regulation. DHAN believes that these values are its core strength needed to realize its Vision and Mission.



Organised by



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