

(資料 10) Nancy Anabel 氏による講演ノート
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Inclusive Approach for Sustainable Development

The Lecture will be on the following sequence:

1. Brief introduction about (a) self and (b) India
2. Details about the Organization and its efforts on Linking Science and Society through research and development following inclusive approach for sustainable development
3. Purpose of my visit & experience of study visit in Sendai and Urakawa city
4. Scope for future collaboration

1. Brief introduction about (a) self (b) Organization and (c) India

- Nancy J Anabel, with an educational background of Sociology and Master in Social Work
- Development professional with 18 years of experience working for the development of grassroots in rural area
- Currently heading the Key Programme Area: information Education and Communication of M S Swaminathan Research Foundation that has been expanded in 5 states of India

India

- India is the seventh-largest country by area, the second-most populous country with over 1.2 billion people in the world. India is divided into 29 states & 6 union territories administratively.
- Religious status of India highlights that Hinduism is the major one with 80.5% and subsequently Muslim with 13.4%, Christians – 2.3%, Sikhs – 1.9%, Buddhist - .08% and others.
- India has a coastline of 8041 km with 9 coastal states and 3 union territories.
- The coastline of 5700 km is prone to cyclone and disaster. The statistics unveils that 65 million population are affected by disaster in which 8.4 million fall are children and 3.5 million are lactating mothers and pregnant women.
- During tsunami 26.12.2004, 10, 136 members lost their lives, 34.16 lakh members were affected and there was huge loss in terms of assets and critical facilities.

2. About the Organization - Linking Science and society through inclusive approach for sustainable development

M S Swaminathan Research Organization is a Non Governmental Organization, founded by Prof. M. S. Swaminathan, who is a father of Green Revolution in India. It is a 25 yr old organization that works in 5 states in India in close coordination with public agencies.

MSSRF's vision is to harness **science and technology for environmentally sustainable and socially equitable development.**

This is achieved through a **pro-poor, pro-nature, pro-women and pro- sustainable livelihood** orientation to technology development and dissemination.

Contemporary Relevance of MSSRF work

- **Anticipatory research** for identification of genes for climate resilient farming,
- **Participatory research** involving scientist–farm–tribal family partnerships in conservation of biodiversity, promotion of community gene–seed–grain and water **security system**, and participatory breeding
- Creation of **multiple livelihood** opportunities through biovillages.
- Application of Information Communication Technologies to achieve the last person and last mile connectivity through internet and mobile phone synergy and **Information and Skill Empowerment.**
- Policy dialogues in the area of biodiversity, biotechnology, sustainable livelihoods and adaptation and mitigation of climate change.

Our Reach in

Our presence within Country are in the Fragile Coastal regions, bio-diversity hotspots, agriculture distress areas such as Andhra Pradesh, Kerala, Puducherry, Odisha, Tamil Nadu and Maharashtra

Internationally in Myanmar and Afghanistan

Programme Areas of MSSRF

It focuses on 6 major thematic aspects - Coastal Systems Research, Biotechnology, Biodiversity, Ecotechnology, Food Security & Information, Communication Technology with Climate Change and Gender as cross cutting themes

Programme Area 1: Coastal Systems Research:

It focuses an integrated approach in participatory management of natural resources in coastal areas with concurrent attention to land and seaward sides of the shoreline.

Working with coastal community who are vulnerable and at the strata of under developed

Integrated and Participatory Management of Coastal Zone

- Model for **Joint Mangrove Management** - helped in increasing mangrove cover (65,000 ha)
- **Mangrove Bioshield**: Restored 1475 ha – 6.8 mn mangrove saplings
- Developed an **Integrated Agro-Aqua farming system**

Programme Area 2: Biodiversity focuses on *Integrated Management of Bioresources*

Work with the ethnic group in 3 states – Tamil Nadu, Kerala and Odhisa

- **Conservation** – Quality Seeds, Community managed **gene-seed-grain-water banks**, Farmer to farmer exchange
- **Cultivation** – Modified method of cultivation, Intercropping, Farmers' Method of cultivation
- **Consumption** – Processing, Value Addition, Diversification of products
- **Commerce** – Markets, linkages, branding, labeling, product development, marketing preferably in the Organic Farming Sector

Programme Area 3: Bio Technology

Use of cutting edge science and technologies for adding value to bioresources through prospecting for novel genes, compounds and organisms

- **First group** worldwide to use mangroves and *Prosopis* genes for **Salt and Drought Tolerant and Nutritionally rich Rice** varieties
- MSSRF has been granted **THREE international patents**
- Have made significant contribution towards bioprospecting of **Plants, Lichens and Microbes** for agricultural and therapeutically use

Programme Area 4: Eco Technology

Work with the small holding farming community

- *Harnessing Science and Technology and need based Capacity Building for Promoting On-Farm and Off-Farm Livelihood Opportunities for rural communities*
- Bio-village model - Sustainable Human Development
- Enhanced Productivity in major crops in rainfed and irrigated systems
- Fish for All Research & Training Centre

Programme Area 5: Food Security

Interventions for improving food and nutrition security status of the communities

- Developed Atlases for Food Insecurity of Rural India; Urban India and Sustainability of Food Security

- Farming System for Nutrition
- Women Farmers Programme in Farmer's suicidal hotspot
- Household Entitlement Card listing food and nutrition schemes
- Nutrition Gardens: Horticultural Remedy for Nutritional Malady

Programme Area 6: Information Education and Communication

Works with the vulnerable, last mile underseved community in the rural areas

To promote sustainable rural livelihoods through digital empowerment based on inclusive approach to technology choice and dissemination, and human resource development

It emphasises on Locale Specific, Demand driven contents and Capacity Building to cater to the requirement of rural community

- Provide early warning information and need based information to minimize risks and maximize economic enhancement using multiple technologies like internet, public address system, mobile application, All India Radio, FM Radio, Community News Paper etc
- End to end solution with helpline support for livelihood enhancement
- Knowledge on Wheels - Mobile van for soil health and human health

Purpose of Visit to JAPAN

MSSRF in collaboration with Government of India and ATDO is planning to design and implement a pilot project of Disaster Risk Reduction with inclusive approach incorporating persons with disabilities. Hence a visit has been made to get deeper understanding about the strategies followed in JAPAN on Disaster Risk Reduction.

Key Learning from JAPAN

- Different dimension of devastative effect of different kinds of disasters such as tsunami, typhoons, earth quake and land slide
- Resilience of Japan towards disaster
- Concerted efforts, collective and timely action of different key stakeholders to reduce disaster risks
- Significance and need of hazard & vulnerable mapping highlighting risk and safer zones and preparedness plan.
- Inclusive approach of devising preparedness plan and its implementation to enable timely evacuation of people with psycho social disorders, elderly, women, children, lactating and pregnant women etc.

- Coordinated approach of networks and communication channel among key players like public, private and autonomous group practicing regular communication with one another contributes a lot during disaster for timely and collective action
- Bethel House – a novel tressure applying social work principles in their work and empathize and recognize persons with psycho social disorder as human being and also facilitate them to lead a healthy life with self esteem. Method and tools followed in the house is unique to be learnt by many and applied in different context

Scope for Working Together

- MSSRF encourages professionals and student community from different countries to work together on areas that focuses on inclusive growth and sustainable development
- Open for collaborative interventions and cross learning