

The Strategic Research & Extension Plan (SREP) of Saraikela district was prepared following the participatory methodology to reflect the issues and needs of the farming community. The main steps followed for preparation of SREP are as follows:

Training : -

1. A state level orientation workshop on Extension Reforms was organized for new ATMA district from 1-2 July' 2005 at SAMETI, Ranchi to Develop Specific skills in preparation of Strategic Research and Extension Plan. Following topics were discussed in the above workshop.

- i. Extension Reforms-an Overview.
- ii. Xth Plan Scheme – Support to State Extension Programmes for Extension Reforms.
- iii. Experiences of ATMA Model.
- iv. Orientation on SREP.
 - ❖ Content
 - ❖ Methodology
 - ❖ Operationalization
- v. Farmers Organization & Federations.
- vi. Research-Extension-Farmer Linkages

2. SAMETI in collaboration with MANAGE, Hyderabad organized a 5-days Master Trainers Training Programme from 30th Nov-6th Dec' 2005 at SAMETI, Ranchi. In this training programme following topics were covered.

- I. Farming System Approach
- II. Participatory Rural Appraisal
- III. Farming System based Extension.

Following participants participated in the Master Trainers training from Saraikela District.

- i. Sri. Suresh Prasad Asst. Soil Conservation Officer, Jamshedpur, TATA
- ii. Dr. Ramesh Kumar, Scientist, KVK, Darisai. East Singhbhum
- iii. Dr. Madira Marandi, Scientist, KVK, Darisai, East Singhbhum
- iv. Miss. Arti Bina Ekka, Training Organizer, KVK, Darisai, East Singhbhum

- v. Sri. Hisabi Mandal, Agril. Inspector, Dist. Agril. Officer, Saraikela
- vi. Dr. Chandan S. Dev, P.A. H. G, Saraikela

3. SAMETI in collaboration with EEI, Nilokheri organized a state level workshop on “Extension Reforms” for the officers of ATMA districts from May 8-12 ‘ 2006. Following topics were discussed in depth and sample data collection through field visit. In the training a field visit was organized to demonstrate primary data collection in Pithoria village.

- Concept of Farming System Approach (FSA).
- Concept of Farming Situation Based Extension (FSBE)
- Concept of PRA
- Field Visit for collection of Primary and Secondary data through PRA

Following officials participated in the above training from Saraikela district.

1. **Sri. Sudhakar Prasad Shrivastava**, Dist. Dairy Dev. Officer
2. **Sri. Chandeshwar Paswan**, BAO, Saraikela
3. **Sri. Jaydeep Kumar Sinha**, DFO, Saraikela-Kharswan
4. **Sri. Balram Mahto**, BAO, Chandil, Saraikela
5. **Sri. Ramawatar Singh**, BAO, Echagarh, Saraikela-Kharswan
6. **Sri. Hisabi Mandal**, Agril. Inspector, Saraikela
7. **Sri. Sanjay Kumar Singh**, DAO cum PD, ATMA, Saraikela
8. **Sri. Hem Chandra Mahoto**, BAO-Incharge, Saraikela-Kharswan
9. **Sri. Ashoke Kr. Chowdhary**, BAO, Nimdih
10. **Dr. Jai Prakash Narayan**, D.A.H.O, Saraikela
11. **Dr. Baleshwar Choudhary**, BAHO, Kuchai, (Saraikela)

Selection of Members

Selection of members of multi-disciplinary team (MDT) of 26 officers representing different government departments’ viz. Agriculture, Animal Husbandry Soil Conservation, Horticulture and scientists from ZRS, Darisai & NGO was made to provide them basic training / orientation about the concept of Extension Reforms for preparation of SREP.

Four AES zones are selected. The core team for each AES zonewere as follows –

Table 2.1: AES TEAM

AES – I :	1. Sri. Chandan Govind Dev (Team Leader) 2. Sri. Ramawatar Singh 3. Dr. D. P. Singh 4. Sri. Mithlesh Singh 5. Sri. Ashok Kr. Choudhary 6. Dr. Shyam Lal Marandi 7. Sri. Ganesh Chandra Gorai 8. Sri. Sahdeo mahato 9. SEDP	BAHO, Saraikela BAO, Ichagarh BAHO, Chandil BCEO, Chandil BAO, Nimdih BAHO, Nimdih Member, G. B. VLW, Chandil NGO, Chandil
AES – II :	1. Sri. Hisabi Mandal 2. Sri. Ghanshyam Bodra 3. Dr. Baleshwar Choudhary 4. Sri. Prafull Kumar Pal 5. Sri. Dineshwar Kamat 6. Sri. Prasant Kr. Mahto 7. TSRDS	Agril. Inspector BAO, Kuchai BAHO, Kuchai Sericulture BCEO, Kuchai VLW, Kuchai NGO
AES – III :	1. Sri. Gondra Mardi (Team Leader) 2. Sri. Hem Chandra Mahato 3. Dr. Abhimanu Prasad 4. Sri. Pankaj Kumar Singh 5. Sri. Sanjit Kr. Haldar 6. Sri. Basudev Chandra Mahto 7. KGVK	Scientist BAO, Kharsawan BAHO, Kharsawan Field Supervisor VLW, Kharsawan VLW, Kharsawan NGO
AES – IV :	1. Dr. Ramesh Kumar (Team Leader) 2. Sri. Nepal Chandra Mallick 3. Sri. Gupteshwar Singh 4. Sri. Amerandra Bhushan 5. Sri. Virendra Kumar Singh 6. Aditya Kumar Bajpayee 7. Sahogi Mahila	Scientist, KVK BAO, Gamharia BAO, Rajnagar BAHO, Gamharia Plant Protection VLW, Gamharia NGO, Rajnagar

Training of MDT:

The selected scientists and officers of MDT were given training on theoretical aspects of SREP from 12-13 July, 2006 June at ATMA, Saraikela by Technical Experts on the following aspects.

- Present Extension System & ATMA Model
- Extension Reforms
- Roles and Responsibility of Stakeholders
- Orientation on SREP
- Concept of Participatory Rural Appraisal (PRA) & Tools
- Farming System Approach
- Farming System Based Situation
- Gender Participation

- Field Exercise on Participatory Data Collection.

Technical Expert involved in the training :

1. Sri. Gokul Mehra, Joint Director (Agriculture), Hazaribagh
2. Sri. Ranjay Kumar Singh, T. O. KVK, Chatra
3. Sri. Sudhir Kr. Jha, SMS, KVK, Peterbar, Bokaro

Besides conceptual clarity on SREP and its aspects, relevant management tools & techniques and methodological approaches were discussed at length.

Identification of representative villages for each AES

During the course of AES training, four major Agro-Ecological situations (AES) were identified and representative villages based on various agro-ecological factors were identified.

Table 2.2: AES and village selected for participatory data collection

Sl. No.	Name of AES	Blocks	Representative Village Identified	Geographical Area	% of total geographical area
1.	AES – I	Nimdih, Chandil, Ichagarh	Bhalukocha, Chandil Block	30970.00	11
2.	AES – II	Kuchai, Kharsawan, Saraikella	Aruan, Kuchai Block	90094.00	32
3.	AES – III	Gamharia, Kharsawan, Saraikella	Krishnapur, Kharsawan Block	118249.00	42
4.	AES – IV	Rajnagar, Gamharia, Saraikela	Bankati, Rajnagar Block	42231.79	15
				281544.79	100

AES Identification

- AES – I** - **Canal Irrigated Area**
- AES – II** - **Rain fed Upper Plateau Forest Area.**
- AES – III** - **Rain fed Undulated Plateau Area**
- AES – IV** - **Rain fed Plain Area**

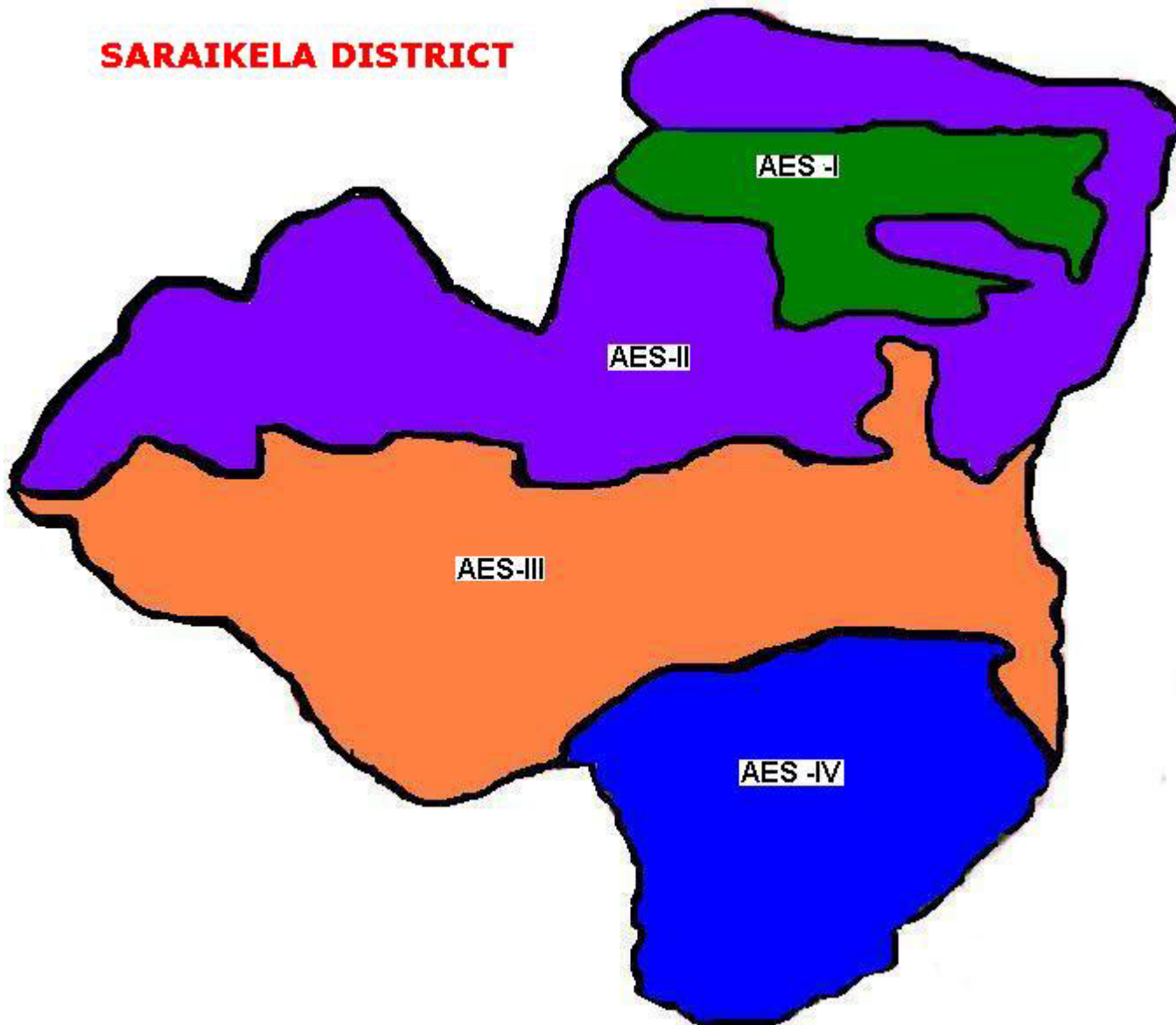
Table 2.3 : Criteria for AES Selection

AES	Village	Altitude	Vegetation	Soil Type	Drainage	Irrigation	Cropping Pattern
AES-I	Bhalukocha	300-400 MSL	Shorea robusta, Behunia & Associate Dominated	Sandy Loam, Sandy Clay with Yellow Texture	Swarnarekha dam based area/ Chandil Reservoir	Cannel Based	Monoculture rainfed but cannel side vegetable and rabi production occurs
AES-II	Aruwan	300-500 MSL	Assan, Pyal & Amla with sal dominated	Heavy clay with sand light brown to dark yellow in texture	V shaped valley of Sona and Kullachaki nala	Rain fed	Mono culture rainfed vegetable and rabi production occurs
AES-III	Krishnapur	245-500 MSL	Mix plantation type of vegetation like Sisham, Sonajuri, Babul, Ber	Sandy Clay at Low land and Sady loam at Upland	U Shaped Valley of Sona and Sanjoy river	Rain fed	Monoculture rainfed vegetable and rabi production occurs
AES-IV	Bankati	215-250 MSL	Mix plantation type of vegetation like Sisham, Sonajuri, Babul, Ber	Sandy load, Sandy Clay	Bonbonga and Kharkhai river	Rain fed	Monoculture rainfed vegetable and rabi production occurs

Agro ecological situations were identified based on Soil Type, Vegetation, Drainage, Irrigation and Cropping pattern in consultation with the Scientists of extension education unit, Jharkhand, NGO's working in the district and officials of Agriculture and other line departments. One village in each agro ecological situations was selected thus there were 4 villages representing 4 Agro ecological situations in the Seraikela – Kharsawan district.

AES MAP OF SARAİKELA DISTRICT

SARAİKELA DISTRICT



Formation of Multi-Disciplinary Groups:

For each AES, Multi-disciplinary groups comprising 7-8 members from different line departments, Scientists from KVK, leading NGO from the identified from trained AES team. These groups were given the task collection of primary information from the representative village's uses PRA tools and techniques for the preparation of SREP. The revised format for the collection of field data through participatory method was also given to each AES team members.

Conducting field survey:

Field survey were conducted in Saraikela district from 14-18 July' 2006 during which members of the inter-disciplinary group collected data and information for the preparation of SREP. The primary data collected during field survey was checked with various farmers groups in the village through triangulation.

The collected data was summarized and presented by each AES team in the presence of scientists from BAU, Ranchi along with the senior level officers from all concerned departments and farmers from representative villages.

Collection of Secondary Information

Secondary data used for preparing SREP was collected from different publications from the records of the district offices of Agriculture, Horticulture, Soil Conservation, Animal Husbandry, Statistical office and database prepared by SRI and NIC Website.

Summarization and Presentation of Data

A core team comprising of 3 members from the AES teams facilitated by BAU Facilitators undertook the job of tabulation, analysis of data collected by various AES teams and preparation of the first draft of SREP (Partial) was presented before MANAGE Consultant during 24-26 July' 2006. The data from each representative village was discussed in details with the scientists of BAU, Ranchi before its summarization. During the presentation and review before MANAGE Consultant, it is advised to incorporate agro-processing, post harvest management of the produce, public –private partnership, formation of FIG so as to make the SREP of Saraikela district a useful document for the different stakeholders.