

The Strategic Research & Extension Plan (SREP) of Bokaro 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.

1. Fact finding and Orientation of District Team
2. Identification of Agro-eco-situations (AES) within the district
3. Training of AES team
4. Collection and Data analysis.
5. Documentation and report preparation

1. Fact finding & Orientation of District Team

Information related to Bokaro district was collected from the line departments and consulting various reports and literature .

Members for the study team was selected in a multi-disciplinary team (MDT) of officers representing different government departments' viz. Agriculture, Veterinary, Fishery, Soil Conservation, Horticulture, Co-operative and scientists from KVK, & Representative of NGO. The team was provided basic training/ orientation about the concept of Extension Reforms, concept of agro-eco system analysis (AESA), application of PRA tools and Process of SREP preparation

2. Identification of Agro-eco-situations (AES) within the district

Agro ecological situations were identified based on soil type, vegetation, forest cover, Irrigation, cropping pattern and pollution effect of mining and steel industry in consultation with K.V.K. scientists, N.G.Os working in the district and officials of Agriculture and other line departments. One village in each agro ecological situations was selected for participatory data collection.

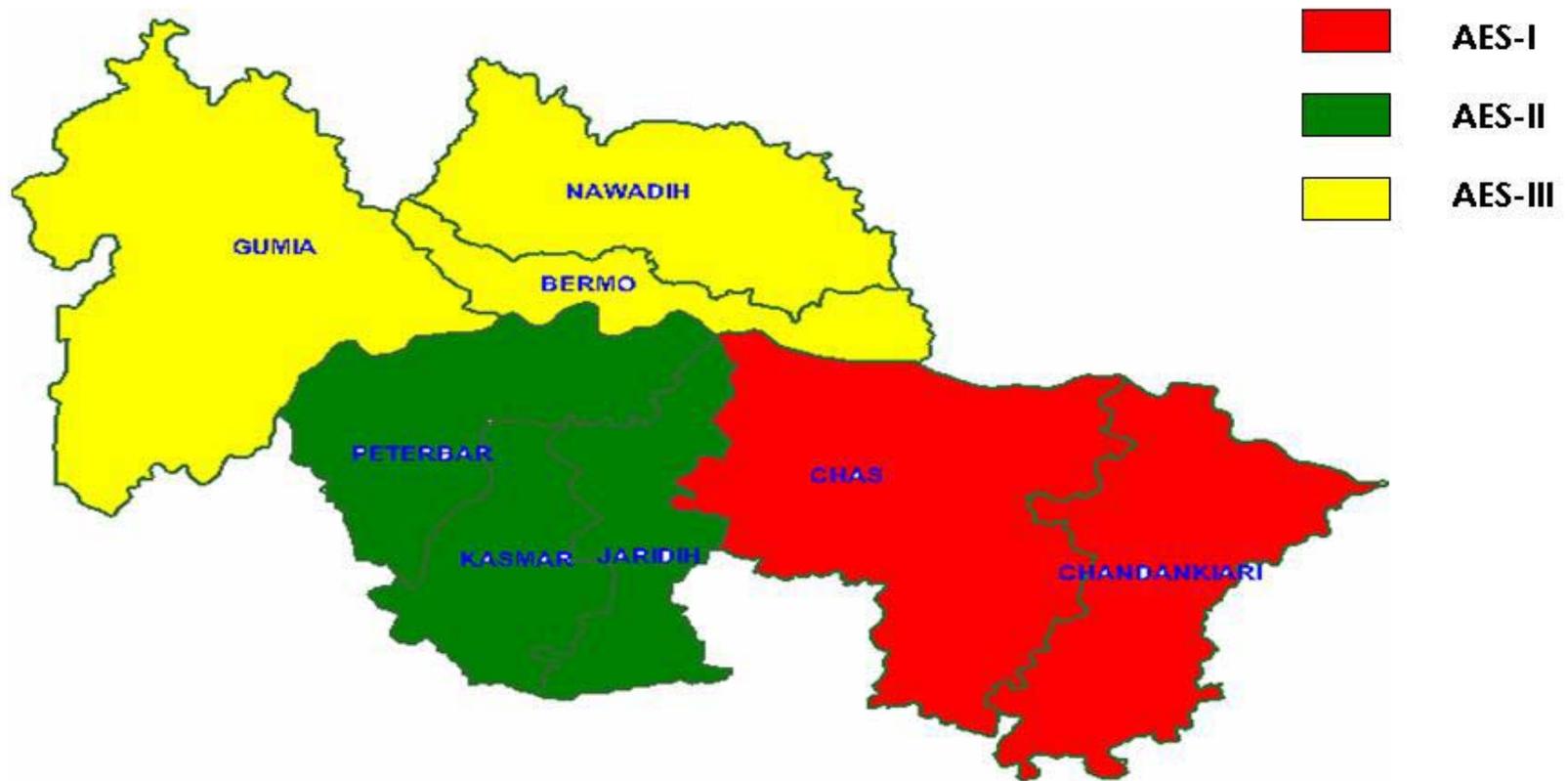
Table No :- 2.1 Criteria for AES Selection

| AES | Village | Forest cover | Vegetation | Soil Type | Irrigation | Cropping Pattern | Pollution effect | Altitude |
|---------|-----------|-----------------|--|---|-------------------------------------|---|--|----------|
| AES I | Machatanr | Negligible | Palash dominated | Sandy-loam | 5-10% area well/tank irrigated | Monoculture rice-fallow system, well/tank irrigated vegetables, Goatry | Negligible effect | 260m |
| AES II | Koh | Partial forest | Mix plantation type of vegetation like Sisham, Ber, Sal, Mahua, Palash, Neem, Karanj, Jamun, Mango | Gravelly soil in up land and sandy-loam to clay-loam in low lands | 10-15% area well and tank irrigated | Monoculture rice-fallow system, intensive vegetable cultivation in some pockets, Poultry and Goatry | Negligible effect | 320m |
| AES III | Alargo | Degraded forest | Sisham, Palash, Ber, Babul, etc. | Gravelly and light texture soil | Negligible area | Monoculture rice-fallow system, Goatry and Poultry dominated farming system | Visible effect of pollution due to mining and steel industry on crop and soil. | 280m |

Table No :-2.2 AES and villages selected for participatory data collection

| AES NO. | Name of AES | Blocks | Representative village identified | Geographical Area in (ha) | % of total geographical area |
|----------------|--|------------------------------------|--|----------------------------------|-------------------------------------|
| AES-I | Rainfed undulated plateau area having sandy-loam soil | Chas, Chandankiyari | Machatanr | 93270.61 | 33.5% |
| AES-II | Rainfed upper plateau partial forest area having gravelly soil area. | Peterwar, Kasmar, Jaridih | Koh | 70279.34 | 25.2% |
| AES-III | Degraded forest and mining area. | Bermo, Nawadih, Gomia, Chandrapura | Alargo | 114970.00 | 41.3% |

Map Showing Agro Ecological Situation (AES) Of Bokaro District.



3. Training of AES team Formation of Multi-Disciplinary Groups.

For each AES, Multi-disciplinary groups comprising 11-12 members from different line departments, Scientists from KVK, leading NGO and one progressive farmers were identified from trained AES team. These groups were given the task of collection of primary information from the representative villages using 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.

The core teams for each AES are as follows:

AES- I

Village :- Machatanr

Block :- Chandankiyari

| Sl No. | Name of team Member | Designation |
|---------------|-------------------------------|--|
| | Team leader | |
| 1 | <i>Sri Arun Kumar Gupta</i> | <i>D.A.O, Bokaro</i> |
| | Team Member | |
| 1 | <i>Dr. Sudhir Kumar Jha</i> | <i>K.V.K. Petarbar</i> |
| 2 | <i>Dr. Arun Kumar Roy</i> | <i>B.A.H.O, Chas</i> |
| 3 | <i>Sri Chandarmani Prasad</i> | <i>B.A.O, Chas</i> |
| 4 | <i>Dr. Binita Kumari</i> | <i>T.V.O, jaridih</i> |
| 5 | <i>Sri. Tribhuwan Singh</i> | <i>B.C.E.O Chas</i> |
| 6 | <i>Smt. Nutan bala</i> | <i>L.E.O Chas</i> |
| 7 | <i>Suman Kumari</i> | <i>N.G.O, Mahila Jan sakti sangathan</i> |
| 8 | <i>Subodh Manjhi</i> | <i>Panchayat Sewak</i> |
| 9 | <i>Sri Ramnaresh Singh</i> | <i>V.L.W</i> |
| 10 | <i>Badal Pramanik</i> | <i>Rojgar Sewak, Pokhanna</i> |
| 11 | <i>Astdhar Mahato</i> | <i>Krishak pratinidhi</i> |
| 12 | <i>Asahri Mahato</i> | <i>Krishak pratinidhi</i> |

AES- II

Village :- Koh

Block :- Petarbar

| Sl No. | Name of team Member | Designation |
|---------------|----------------------------|--------------------------------------|
| | Team leader | |
| 1 | Sri Ram Kumar Prasad | D.C.O, Bokaro |
| | Team Member | |
| 1 | Dr. Uday Kumar | Program Co-ordinator K.V.K. Petarbar |
| 2 | Sri Shiv sankar Roy | B.A.O, Petarbar |
| 3 | Dr. Suresh Kumar | B.A.H.O, Petarbar |
| 4 | Lakshmi pati Bhagat | B.C.E.O, Petarbar |
| 5 | Smt. Manu ghos | L.E.O, Petarbar |
| 6 | Madan Rajak | Panchayat Sewak |
| 7 | Khagendra | Rojagar sewak |
| 8 | Rabindra nath | Pradan, N.G.O |
| 9 | Baldev Mahato | Krishak pratinidhi |
| 10 | Raghunath Marandi | Krishak pratinidhi |
| 11 | Prakash Mahato | Krishak pratinidhi |

AES- III

Village :- Alargo

Block :- Nawadih

| Sl No. | Name of team Member | Designation |
|---------------|----------------------------|----------------------|
| | Team leader | |
| 1 | Dr. Krishna Chaudhry | D.A.H.O, Bokaro |
| | Team Member | |
| 1 | Dr. Anil Kumar | K.V.K. Petarbar |
| 2 | Dr. Puspa Kumari | B.A.H.O, Nawadih |
| 3 | Sri. Jamunaram Mahato | B.A.O, Nawadih |
| 4 | Deepak Kumar | L.E.O, Nawadih |
| 5 | Sri. Omprakash | N.G.O, I.S.A. Bokaro |
| 6 | Sri. Ashok Kumar | B.C.E.O, Nawadih |
| 7 | Tularam Modi | Panchyat Sewak |
| 8 | Rupesh Turi | Rojagar Sewak |
| 9 | Baidynat Mahato | Krishak pratinidhi |
| 10 | Kanchan Mahato | Krishak pratinidhi |
| 11 | V.L.W | Alarago |

4. Collection and Data analysis.

Conducting field survey for collection of primary data :-

Field survey was conducted in Bokaro district from 5-15 February 2009 during which members of the inter-disciplinary group collected data and information. The primary data collected during field survey was interpolated with various farmers groups in the village through triangulation.

The collected data were summarized and presented by each AES team in the presence of scientists from K.V.K, Bokaro 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.

Compilation and Presentation of Datas.

A core team comprising of 3 members from the AES teams facilitated by SAMETI Facilitators undertook the job of tabulation, analysis of data collected by various AES teams and the first draft of SREP was prepared.

5. Documentation and report preparation :-

Preparation and Implementation of Action Plans

Keeping in view the strategic thrust in SREP, annual/seasonal block action plans were prepared by BTT to facilitate technology dissemination using processes like exposure visits, technological and managerial training, demonstrations, field days, farmers Scientist interaction, IT Support etc. through the farmer groups/organization and NGOs. Simultaneously, a research action plan consisting of on farm trials is prepared and carried out in support of the research strategies spelt out in SREP by the Scientists of KVK to assess and refine the existing generalized technologies.

Approval of SREP

After thorough scrutiny by the ATMA Governing Board with constituent official and farmer members, the SREP is submitted for approval as an authenticated plan document. This document will form the basis for agricultural development in the district. SREP draft was submitted to SAMETI, Jharkhand for approval of IDWG and onwards transmission to Ministry of Agriculture, Govt. of India.