

Methodology

In line with the guidelines of IWMP, as suggested by Government of India, the following methodology was adopted for NRM planning and resource mapping.

1. Prepared the cadastral maps pertaining to the project area.
2. Overlaid the micro watershed boundaries over cadastral maps and corrected the boundaries through ground truth verification
3. Project Fellows were appointed as animators. The animators assisted the People's representatives in the formation of Neighbour Hood Groups. They act as master trainers and collected primary and secondary field data. The animators worked as the interface between LSGI and NHGs
4. Training Coordinators were engaged at project level for organizing the series of trainings at Block and Grama Panchayat levels.
5. Overseers were engaged for taking field estimates of the proposed activities.
6. Induction training was given for the project staff on PRA techniques, concept of maps and Resource Mapping.
7. Printed posters, banners and notices for providing wide publicity regarding the programme.
8. Two block level seminars were conducted for People's representatives of District/Block/Grama Panchayats, line departments, Kudumbasree, and other functionaries.
9. This was followed by orientation seminars at Grama Panchayats.
10. Conducted transect walk with ward members and ADS.
11. During the transect walk, major drains, gullies and drainage lines are identified and marked in the cadastral map.
12. NHGs were formed at grass root level comprising of 40 to 50 neighbouring households.
13. Panchayat Level Watershed Committees were convened at Grama Panchayats for finalizing the modalities of work.
14. Trainer's training for base line survey were conducted for two facilitators from each Neighbour Hood Group
15. Predefined questionnaire was prepared for data collection from each household.

16. A block level seminar was organized on drainage line treatment. Followed by Technical presentations, group discussions were held at Grama Panchayat level to draw out the requirements. The suggestions were presented by concerned Grama Panchayat Presidents.
17. Various resources like different water bodies, wells and farm ponds are identified and marked in the cadastral map with the help of the facilitators selected from the NHGs.
18. Focus Group Discussions were organised at Panchayat level for ward members & ADS Chairpersons, Presidents & Secretaries of NHGs, Padashekhara Samithi, Kera Samithi, Kudumbasree, MGNREGS, Officials of Agriculture, Veterinary & Soil Conservation Departments. Followed by technical sessions, group discussions at ward level were held and suggestions were presented by Grama Panchayat members.
19. New questionnaire for net plan preparation was prepared for data collection from each household and NHG.
20. The land resource maps already prepared were updated using high resolution satellite imagery and these interpreted maps were corrected with the help of NHGs and accordingly present land use map is prepared using different notions and symbols.
21. Trainer's training for detailed survey for net plan preparation organized at Grama Panchayat level for ward members & ADS Chairpersons, Vice Presidents & Joint Secretaries of NHGs, MGNREGS officials, etc. The information gathered includes soil and water conservation activities to be taken up through MGNREGS and other schemes and list of agricultural/veterinary/fisheries activities to be taken up in each household. The list of drains/ponds/wells to be rejuvenated/renovated and the details of group activities/livelihood activities to be taken up in each NHG were also collected.
22. Thematic maps on geology and geomorphology were interpreted from the high resolution satellite imagery and were corrected through ground truth verification.
23. Panchayat Level Watershed Committees were convened at Grama Panchayats and the list of entry point activities suggested were discussed and finalized.

24. Trainer's training for taking people's estimates and consolidation of project proposals. This was organized at Grama Panchayat and NHG level. Elected representatives, ADS Chairpersons, Officer bearers of NHGs, MGNREGS officials, etc. attended this training. The information gathered on soil and water conservation activities to be taken up through MGNREGS and other schemes and list of agricultural/veterinary/fisheries activities to be taken up were finalized. The list of drains/ponds/wells to be rejuvenated/renovated and the details of group activities/livelihood activities to be taken up in each NHG were also finalized. The livelihood action plan and the activities under production system were also consolidated.
25. The suggestions were split for four years and four separate annual plans were also prepared.
26. Finally a proposed land use map, area treatment map and drainage line treatment map were so prepared which is treated as the strategic action plan on Natural Resources Management perspective for the micro watershed during the entire project period.
27. Major activities included in the watershed project are.
 - Soil and moisture conservation measures like centripetal and bench terracing, earthen & stone pitched contour bunding, trenching, vegetative barriers, etc.
 - Rain water harvesting activities like farm ponds, percolation tanks, check dams etc.
 - Well recharging and rain water harvesting structures like roof water harvesting and rain water collection pits.
 - Planting and sowing of multipurpose trees, shrubs, grasses, legumes and pasture land development.
 - Encouraging natural regeneration including fodder cultivation.
 - Promotion of agro-forestry and horticulture
 - Capacity building and creation of a greater degree of awareness among the participants.
 - Encouraging people's participation with the involvement of NHGs.
 - Livelihood activities for asset less people
 - Production system and Micro enterprises