

Research Advisory Committee:

RAC Members [06-12-2017 to 05-12-2020]

During the period under report one meeting of Research Advisory Committee was held under the chairmanship of Dr. V. N. Sharda, during 06-07March.2018. Progress of ongoing research projects was presented by respective programme leaders. New research proposals submitted to RAC were also discussed.

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Salient Recommendations of RAC

1. The Institute should develop a methodology for quantification and valuation of intangible benefits accruing out of watershed development programmes in different agro-ecological regions of India by assigning appropriate weightage to different governing parameters (Action: Dr. V. C. Pandey to develop collaborative project).
2. The design of recharge filters developed by different organizations should be evaluated comparatively in terms of scope, suitability, efficiency, cost and limitations and procedure for design should be standardized for different agro-ecological zones (Action: Head, RC-Vasad for evaluation of different designs of Filters).
3. Nutrient losses through water erosion should also be estimated by compiling and analyzing the experimental data on nutrient losses along with runoff and soil losses collected at Headquarters and Regional Centre's of the Institute for the past 50/60 years and also using data from other organizations engaged in such studies to holistically assess production, monetary and nutrient losses due to water erosion in different states, zones and the country as a whole (Action: All the heads of the Divisions/Centre's to provide nutrient loss data to Dr. N. K. Sharma for further compilation)
4. Assessment of extension of ravines (temporal trends) in different river systems needs to be undertaken employing remote sensing and GIS techniques and should be correlated with the governing factors including land use. The ravine dynamics should be linked up with reclamation data available under various ongoing schemes. There is a need of long term monitoring strategy for ravines extension and reclamation measures. (Action: Dr. Gopal Kumar for assessing ravine dynamics of 1-2 ravine districts)
5. A spatially explicit web based decision support system for watershed planning, execution and monitoring should be conceptualized and developed in a project mode and in a specified time frame. It is high time for the Institute to take up leadership in this endeavour, being the pioneering organization in the country to evolve the concept of watershed management, by compiling and analyzing the available research data of the past 50/60 years collected by different divisions and centers of the Institute (Action: Dr. P. R. Ojasvi, Head Hydrology and Engineering Division, to initiate the work. All the heads of the Divisions/Centres to provide desired information to Dr. Ojasvi)
6. Attempt should be made to bring projects having identical objectives and procedures under the umbrella of a core or network project in order to reduce the number of projects and save on time and cost due to limited funds availability (Action: OIC, PME Cell).

Management Committee:

Status of Institute Management Committee [29.6.2015 to 28.6.2018]

49th meeting of Institute Management Committee was held on 08/02/2017 at the Institute Head Quarters, DehraDun. The Following members were present in the meeting.

Name of the Member	Status
Dr. P.K. Mishra, Director, IISWC, DehraDun	Chairman
Dr. Abdul Islam, Pr. Scientist, [Nominee of ADG (S&WM/A&AF), ICAR, New Delhi]	Council's Nominee
Dr. S.K. Jena, Pr. Scientist (SWC Eng.), IIWM, Bhubaneswar	Member
Dr. R.S. Chaudhary, Head, Division of Soil Physics, IISS, Bhopal	Member
Dr. N.K. Sharma, Head, Division of Soil Science & Agronomy, IISWC, DehraDun	Member
Dr. (Smt.) S.L. Arya, Pr. Scientist, IISWC, Research Centre, Chandigarh.	Member
Prof. Chandra Mohan Sharma, Dean (PG), College of Forestry & Hill Agriculture, University of Horticulture & Forestry, Ranichauri, Tehri Garhwal.	Member
Sh. Matbar Singh Kandari	Non official Member
Sh. Ram Sharan Nautiyal	Non official Member
Director, Agricultural & Soil Conservation, Nanda –Ki-Chowki, Prem Nagar, Dehra Dun, Uttarakhand	Member
Director, Soil Conservation, Shimla-5, Himachal Pradesh	Member
Sh. K. K. Sharma, Finance & Accounts Officer, IICAR, Krishi Bhawan, New Delhi	Member
Chief Administrative Officer, IISWC, DehraDun	Member

The meeting was chaired by Dr. P.K. Mishra, Director of the Institute. The Chairman apprised the committee members of the establishment, mandate, research achievements and other related activities, initiatives undertaken by the institute viz. Tribal Sub Plan, Transfer of Technology, Consultancy Projects, Training Programmes being under taken by the Institute and its eight (08) Research Centres.

Institute Research Committee:

Salient Recommendations of IRC Meeting – 2017

1. Action is again assigned by the IRC-2017 to Dr. P.R. Ojasvi, Head, H&E Division for completing the printing process of the bulletin on runoff and erosion prediction models by December, 2017 positively.
2. Action is again assigned by the IRC-2017 that a bulletin / brochure on the concluded project entitled “Design and development of site specific artificial groundwater recharge filters” may be published by Dr. D.R. Sena, Pr. Scientist (Engg.) and Dr. Gopal Kumar, Sr. Scientist (Soils) by August 31, 2017 positively.
3. Action is again assigned by the IRC-2017 that a bulletin / brochure may be published on the results obtained from concluded projects entitled “Productivity enhancement in fruit and flower based two tier horticulture systems through integrated nutrient management and mulching” and “Enhancement of guava productivity through canopy management and mulching in rainfed bouldery riverbed lands” by Dr. A.C. Rathore, Pr. Scientist (Hort.) by August 31, 2017 positively.
4. Action is again assigned by the IRC – 2017 that a technical bulletin may be published on the results obtained from the concluded project entitled “Enhancement in land productivity and livelihood security of small farmers of Nilgiris through multiple use of harvested water” by Dr. S. Manivannan, Pr. Scientist (Engg.) by Sept. 30, 2017 positively.
5. Action is again assigned by the IRC – 2017 that a policy paper may be brought out from the concluded project entitled “Prototype field study on application of potentially important Jute geo-textiles for hill slope stabilization” for Nilgiris area alongwith economic returns by Dr. S. Manivannan, Pr. Scientist (Engg.) by August 31, 2017 positively.
6. Action is again assigned by the IRC – 2017 that a policy paper on “Present status of shifting cultivation in Odisha and to suggest action plan” may be prepared by Dr. M. Madhu, Head, Research Centre, Koraput by August 31, 2017 positively.
7. Action is again assigned by the IRC – 2017 that the document of 60 years research in Soil and Water Conservation may be published by the Head, Research Centres, Bellary, Kota, Udhagamandalam & H&E and HRD&SS Divisions on or before Sept. 30, 2017 and Research Centre, Agra by Dec. 31, 2017 positively. Similar document for 30 years of Research Centre, Datia and 25 years of Research Centre, Koraput may be published by August 31, 2017 positively.
8. The complete module on user friendly DSS for planning of watershed development project need to be developed by Dr. P.R. Ojasvi, Head (H&E Division) from the support of Institute for use by the stakeholders to justify the time spent on such project and to arrive at logical conclusion. The action taken may be presented in the IRC meeting 2018.
9. The testing comparison of the field level sediment sampler may be done during monsoon season by Er. Deepak Singh, Scientist (Engg.) and the report may be submitted by September 30, 2017 positively.
10. A policy paper on peach may be brought out from the project entitled “Peach based agri-horticulture landuse system for degraded Shiwaliks” by Dr. Ram Prasad, Pr. Scientist (Hort.) by December 31, 2017.
11. A meeting may be organized by Dr. B.L. Dhyani, Sr. Scientist (Ag. Eco.) and Dr. Pradeep Dogra, Pr. Scientist (Ag. Eco.) during Nov., 2017 with all scientists of Headquarters and scientists of Economics discipline from Research Centres for discussion on “Intangible benefits of NRM interventions in different projects in different climatic regions and network project formulation”. The recommendations of above meeting may be utilized for formulation of core project on above issue for presentation in the next IRC meeting.
12. A DSS for generating optimal IFS plan of a farmer may be worked out by Dr. Pradeep Dogra, Pr. Scientist (Ag. Eco.) and leader of concluded core project entitled “Multiple criteria decision for identifying suitable Integrated Farming Systems in different agro-ecological regions for optimizing resource conservation and productivity” with the help of Ms. Chayna Jana or a computer programmer.
13. Preparation of Ravine Atlas of India including the scientific method for delineating the affected areas due to ravines may be completed by Dr. R.K. Singh, Head, Research Centre, Kota and Dr. G.L. Meena, Scientist (Soils) in association with Dr. Gopal Kumar, Sr. Scientist (Soils) by Dec. 31, 2017.
14. A policy paper on Jhola land may be published by Dr. (Ms.) Ch. J.P. Dash by August 31, 2017 related to the concluded project entitled “Mapping and characterization of Jhola land areas in Koraput district”. The technologies developed from the above project may be transferred under TSP. RPP IV on the above project may be submitted. A bulletin on Jhola land may also be prepared.

15. The comparative cost estimate with other standard check dams constructed with standard construction materials may be worked out by Dr. P.R. Bhatnagar, Head, Research Centre, Vasad related to a concluded project entitled “Development of cost-effective plastic check dams for water harvesting in rainfed regions”. Patenting of plastic check dams may also be explored.
16. The concluded project entitled “Creation of ICT network to disseminate knowledge about the soil and water conservation technologies to farmers in Himalayan region” may be continued as Transfer of Technology (ToT) for one year by Mr. Rajesh Bishnoi, Scientist (Ag. Extn.) to study the effectiveness of the project and collection of data for good statistical analysis.
17. The comparative analysis of different cover materials with tiles related to the concluded project entitled “Water budgeting of a ravine watershed pond for optimum crop planning under semi-arid region” may be completed by Dr. K.K. Sharma, Sr. Scientist (Engg.) by August 31, 2017 positively. Technologies may also be prepared on the above project.
18. The statistical analysis about trend in borewell depth related to the concluded project entitled “Socio-economic implication and vulnerability of farmers to ground water exploitation in hard rock region of the Deccan” may be done by Mr. Suresh Kumar, Scientist (Ag. Econ.) by August 31, 2017. A policy paper from the above project including techno-economical analysis may also be prepared.
19. The DSS from the concluded project entitled “Decision Support System (DSS) for identifying best management practices in erosion risk area” need to be sent for copy right. The action taken will be presented in the next IRC meeting.
20. A new proposal entitled “Evaluation and improvement of water and nutrient use efficiency for potato based cropping sequence through efficient use of harvested rain water” may be conducted as demonstration at the Research Centre, Udhagamandalam by Dr. P. Raja, Dr. K. Kannan and Dr. K. Rajan and DSS may be developed with the existing information and presented in the next IRC meeting.
21. Digitization of data of research farm at the Headquarters and all Research Centres may be completed and reported accordingly to Er. S.S. Shrimali, Sr. Scientist (CAA) and Co-ordinator for compilation of data digitization by December 31, 2017 positively.
22. Seminar on foreign papers may be conducted every month at Headquarters and all Research Centres for sharing of new thinking in research. One scientist may be identified at all Research Centres for organizing seminar every month. At the Headquarters, a roaster may be prepared by Dr. Pradeep Dogra, Pr. Scientist (Ag. Econ.) for organizing seminar on monthly basis.
23. Status report of Gauging devices / Silt Monitoring Stations (SMS) working at Headquarters / Research Centres may be prepared by the Head, H&E Division by June 30, 2017. Further, the format may be discussed with the concerned scientists and published by Sept. 30, 2017 by Dr. P.R. Ojasvi, Head, H&E Division and co-ordinator of this assignment.
24. On-site monitoring and evaluation of running projects of remaining Research Centres and Divisions may be co-ordinated and completed by the PME Cell of Headquarters visiting the project sites at Research Centres and Divisions after finalizing the dates with the Head of Research Centres and Divisions.
25. All RPPs of research projects should be filled-up, submitted and maintained as per ICAR guidelines on RPPs and the presentation made by Mr. S.K. Sinha, Assistant Chief Technical Officer, PME Cell on “Proper filling and maintaining RPP I, II, III & IV of Research Projects”, discussed in the IRC meeting, 2017.
26. The maximum total percent time spent by a scientist in approved running research projects should not be exceeded 80% and minimum 20% of his / her time should be kept spare for other scientific assignments of the Institute. Further, minimum 20% time as PI and 10% time as Co-PI should be devoted by a scientist in a research project.
27. Paper / Abstract sending for publication / presentation should invariably be discussed in the monthly STMIM at the Research Centre / Headquarters in front of all scientists. The proceedings must be attached with the paper / abstract while submitting to the Director for approval through the Head.
28. An externally funded NICRA project entitled “Comprehensive assessment of climate change implications on watershed development component of PMKSY (WDC-PMKSY) approved during July, 2017 for three years (2017-18 to 2019-20) may be conducted by Dr. D.R. Sena, Pr. Scientist (Engg.) as PI at the Headquarters, Dehradun. Names of Dr. P.K. Mishra, Er. Uday Mandal, Dr. Gopal Kumar, Dr. Ramanjeet Singh, Dr. M. Sankar and Dr. Pradeep Dogra are included as Co-PIs of this project.
29. While taking up new R&D projects and upscaling the technologies, the scientist should focus on the location specific research, priorities on ongoing Government programmes, low cost and appropriate technology development, upscaling participatory research etc. The senior level scientists should act as mentor to the newly recruited scientists.