

## RAC, MANAGEMENT COMMITTEE, IRC MEETINGS

# 10

### RESEARCH ADVISORY COMMITTEE

RAC Members for a period 30.03.2011 to 29.03.2014

1	Dr. S.R. Singh, Ex-VC, RAU PUSA, Bihar, H. No. 561, Sector-2, Udyan-II, ELDECO Colony, Rae Bareli Road, Lucknow - 226025 (U.P.)	Chairman
2	Dr. M.M. Aggarwal, Ex-Vice Chancellor, CSAUA&T, Kanpur, H. No. 106, New Civil Lines, Vinayakpur, Kanpur- 208024 (U.P.)	Member
3	Dr. R.S. Narang, Retd. Prof. of Agronomy, H.No. 140-D, Kichlu Nagar, Ludhiana (Punjab)	-do-
4	Dr. H.N. Verma, Ex-Director, WTCER, H. No. 208, Sector-10, Gurgaon - 122001 (Haryana)	-do-
5	Dr. I.D. Tyagi, T-206, Vasundhara Valley Apartments, Sector-6 Ghaziabad (U.P)-201012	-do-
6	ADG (soils) NRM, ICAR, Krishi Anushandhan Bhawan, II New Delhi-110 012	-do-
7	Dr. Anil P. Joshi Director, HESCO Village - Shuklapur; P.O. - Ambiwala; Dehradun (Uttarakhand)	Non-official Member
8	Dr. Vinod Kumar Bhatt Addl. Director, NAVDANYA, Dehardun (Uttarakhand)	-do-
9	Dr. P.K. Mishra, Acting Director, CSWCRTI, 218, Kaulagarh Rd., Dehradun - 248 195 (Uttarakhand) Tel. No. (O) 0135-2758564, (R) 2757218 director@cswcertiddn.org	Member
10	Dr. Ambrish K. Tiwari, Sr. Scientist (SWCE) CSWCRTI,218, Kaulagarh Rd., Dehradun -248 195 (Uttarakhand) Tel. No. 0135 - 2757210(O), 2751247(R) e-mail: aktswc@yahoo.com	Member-Secretary

A meeting of Research Advisory Committee (RAC) of the Institute was held during January 24–25, 2013 in the Chairmanship of Dr. S.R. Singh. The following specific recommendations were made in the meeting:

1. RAC recommended for conducting research on the effect of dyke height on the conservation of soil, nutrients, and rain water resources in the cropped fields in different Agro-Climatic Regions of the country. Mathematical model needs to be developed to simulate in-situ conservation of soil and rain water resources as influenced by various dyke heights.
2. RAC was of opinion that Water Harvesting Structures (WHS) developed at Hampi, Bellary (Karnataka) and Chittorgarh (Rajasthan) during medieval age are exemplary endeavour of SWC and still significant for learning. RAC recommended that the newly recruited scientists of the Institute may be facilitated to visit these sites as a part of study tour to learn the state-of-art science of these structures.
3. RAC stressed the need to collect data on conservation efficiency of different crops, grasses and fruit trees grown in different Agro-Climatic Regions of the country as information on these aspects is less available at the national level.

4. RAC appreciated that a number of WHS have been developed and being developed by the Institute at many locations across the country under various projects and recommended to equip these WHS with micro-irrigation systems for efficient utilization of the stored water for crops.
5. RAC enunciated that mine spoil areas caused by different types of mining activities in the country are posing serious land degradation problems that need to be reclaimed. It recommended to formulate projects on reclamation of mine spoil areas in order to improve the soil quality and other biophysical aspects of the affected sites for ecological restoration.

## MANAGEMENT COMMITTEE

### Status of Institute Management Committee of CSWCRTI, Dehradun

No.	Name and designation of Member	Status in IMC	Period of nomination
1.	Director, CS&WCR&TI, Dehradun	Chairman	-
2.	Asstt. Director General (S&WM/A&AF), ICAR, New Delhi, Ph. (O) 011-25848369	Council's nominee	12.6.2012 to 11.6.2015
3.	Dr. S.K. Kamra, Head Drainage & Irrigation Division CSSRI, Karnal (Haryana) Ph. (O) 0184-2285363, Fax: 0184-2290480	Member	12.6.2012 to 11.6.2015
4.	Dr. N.S. Yaduvanshi, Pr. Scientist, Soil Division, IARI, New Delhi	Member	12.6.2012 to 11.6.2015
5.	Dr. O.P. Chaturvedi, Head, Plant Science, Division	Member	12.6.2012 to 11.6.2015
6.	Dr. (Smt.) Pawan Sharma, Pr. Scientist, CSWCRTI Research Centre, Chandigarh	Member	12.6.2012 to 11.6.2015
7.	Director, Agricultural & Soil Conservation, Nanda ki Chowki, P.O. Prem Nagar, D.Dun Ph. 0135-2772677, Fax: 0135-2771881	Member	23.11.2010 to 22.11.2013
8.	Director, Soil Conservation, Shimla - 5 (H.P.), Ph. 0177-2830620	Member	23.11.2010 to 22.11.2013
9.	Dean (PG), GB Pant University of Agriculture & Technology, Ranichauri, Hill Campus, Tehri Garhwal (Uttarakhand) Ph. (O) 01376-2512138 / (R) 01376-2512139	Member	23.11.2010 to 22.11.2013
10.	Finance & Accounts Officer, NDRI, Karnal (Haryana) Fax: 0184-250042	Member	23.8.2011 to 22.8.2014
11.	Dr. Anil Joshi, Director, Himalayan Env. Studies & Conservation, Vill. Shuklapur, P.O. Ambiwala, Dehradun (Uttarakhand) Phone : 9411109073	Non-Official Member	23.11.2010 to 22.11.2013
12.	Dr. Vinod Bhatt, Addl. Director, NAVDANYA, 105, Rajpur Road, Dehradun Ph. (O): 0135-2743175 / (M) 9412998158	Non-official Member	23.11.2010 to 22.11.2013
13.	Chief Administrative Officer, CS&WCR&TI, Dehradun (Uttarakhand)	Member Secretary	-

During the period under report, IMC meeting was held at the Institute Headquarters, Dehradun on June 29, 2013 chaired by Dr. P.K. Mishra, Director. Sh. Vishwa Ranjan, Chief Adm. Officer & Member Secretary of the Institute Management Committee welcomed all the participants of IMC and Chairman of the IMC apprised them about the establishment, mandate, research and development, achievements besides other activities like exhibitions, projects, training programmes being undertaken and demonstration conducted by the Institute and its 8 Research Centres. During the meeting, various agenda items were taken up and discussed. Major recommendation of the IMC was as under:

#### Recommendation of 44<sup>th</sup> IMC meeting:

- Prioritization of New works and Renovation / Major repair works under XII FYP during CFY 2013-14 IMC has agreed in principle that items of works proposed in final EFC Memo of XII Plan during CFY 2013-14 can be executed following works costing ₹ 422.09 lakhs {New works: Extension of existing auditorium with conference hall and its furnishing by providing Air Conditioners, Audio & video aid etc. at Dehradun (₹100.0 lakhs); Construction of Hydrological testing laboratory and plant for rainwater recharge structures at Research Farm Selaqui (₹ 21.0 lakhs); Construction of over head tank at main Institute campus, Dehradun (₹43.59 lakhs); Providing GI sheet over the roof terrace of training, old hostel building at Dehradun (₹56.0 lakhs); Construction of tube well with storage and distribution system at Researchh Centre, Agra (₹16.0 lakhs); Extension, upgradation and furnishing of main office building at Research Centre, Bellary (₹30.0 lakhs); External fencing around the periphery of the boundary of Research Farm over a length of 1.35 km at Udthagamandalan (₹ 20.0 lakhs); Extension and up gradation of library at Research Centre, Vasad (₹23.0 lakhs); Renovation/Major Repair works: Renovation of water storage sump at old tube well in Research Farm, Dehradun(₹7.5 lakhs); Renovation of visitors room including building entrance at main Institute, Dehradun (₹ 13.0 lakhs); Renovation / up gradation and furnishing of rooms old hostel building with all amenities to organize National/International level training programmes at Dehradun (₹ 35.0 lakhs); Replacement of Electric installation in International guest house and training hostel at DEhradun (₹ 16.0 lakhs); Renovation of overhead water tank at Research Centre, Bellary (₹ 13.0 lakhs); Repair and maintenance work in farm office and Scientist home, Research Centre Chandigarh (₹ 12.0 lakhs); and Residential Buildings – New works : Construction of garages in residential campus (13 nos.) at Research Centre, Datia (₹ 16.0 lakhs)} as per agenda item during CFY 2013-14 under XII FYP (2012-17) subjected to approval of EFC Memo by the Council.
- Prioritization of Equipment for procurement under XII FYP during CFY 2013-14. IMC has agreed in principle that equipments being proposed in final EFC Memo of XII Plan for procurement during CFY 2013-14 can be procured by the Institute costing ₹ 28.30 lakhs. {HQs Dehradun: Lux meter - 1, Standard cone penetrometer - 1, Yoder apparatus - 1, Soil thermometers of 5 different depth (5 each), Core sampler with six cores -1 and Root sampler with 6 cores – 1 (SS&A Divn.) total costing ₹ 0.80 lakh; Digital rain gauge - 1, Non-recording rain gauge - 2, Digital balance (100 mg sensitivity, 1kg capacity & 50 kg capacity), Spring balance (50 kg, 100 kg, 150 kg and 200 kg) (Plant Science Divn.) total costing ₹ 0.75 lakh; Automatic self recording rain gauge - 2, Tipping bucket runoff measuring device - 1, and Monoblock H-flume - 1 (H&E Divn.) total costing ₹1.0 lakh; Hand held GPS D25L - 10, Photocopier - 1, Laser Printer -1, Heavy duty Vacuum cleaner - 1, and UPS - 2 (HRD&SS Divn.) total costing ₹ 3.65 lakhs; Zero tillage machine - 1, Stage level recorder - 5, Storage bins - 10, and Assman Psychrometer - 1 (Res. Centre, Agra ) total costing ₹ 2.7 lakhs; Muffle furnace - 1, Pipette controller - 1, Core sampler - 1, Tiller (11 tines) - 1, Desiccators with vacuum pump - 1 and Power sprayer - 1 (Res. Centre Bellary) total costing ₹ 2.0 lakhs; Online UPS with isolation transformer - 3, Water & soil analysis kit - 1, and UPS for CHN Analyzer - 1 (Res. Centre, Chandigarh) total costing ₹ 3.9 lakhs; Mini generator – 1 and Digital camera – 1(Res. Centre, Datia) total costing ₹ 1.7 lakhs; pH meter - 2, EC meter - 2, Field balance for moisture data - 2, Power saw - 1, Digital camera - 1,

Refrigerator - 1, Seed-cum-ferti drill - 1 and Grain grader-cum-cleaner - 1 (Res. Entre, Kota) total costing ₹ 3.85 lakhs; Digital flame photometer - 1, Double Distillation set - 1, Hot air oven - 1 and Photocopy machine - 1 (Res. Centre, Koraput) total costing ₹ 2.6 lakhs; 10 HP high head electric pump - 1, Power sprayer - 2, Water conveyance pipe for sprinkler sets - 30, Soil moisture boxes - 250, Dumpy level - 5, F type water level recorder - 3, End to end shaker - 1, Muffle furnace - 1, Potato planter - 1 (Res. Centre, Udhagamandalam) total costing ₹ 4.15 lakhs; Automatic runoff recorder-cum-sampler – 1 (Res. Centre, Vasad) costing 1.2 lakhs} as per agenda item during CFY 2013-14 subjected to approval of EFC Memo by the Council.

- Conversion of residential quarters into training hostel for accommodating participants of training, short course etc. {32 quarters (Type I - 21 & Type II - 11) having total 64 rooms with 86 beds capacity (each Type I as single bed and Type II as double beds) as proposed (HQs, Dehradun: Type I - 4 & Type II - 5; RC Agra: Type I - 4; RC Bellary: Type I - 3; RC Datia: Type I - 1 & Type II - 3; RC Kota: Type I - 3; RC Udhagamandalam: Type I - 3 & Type II - 3; and RC Vasad: Type I - 3). The charges for these hostel rooms will be charges @ ₹75 per bed per day for official visit and ₹40 per bed per day for private visit subject to revision from time to time. IMC recommended conversion of above residential quarters into hostel rooms for accommodating farmers and students of training programmes, short course etc.

### **INSTITUTE RESEARCH COMMITTEE** **Salient Recommendations of IRC Meeting 2013**

1. A format may be prepared by Dr. P.R. Ojasvi, Pr. Scientist (Engg.) and sent to all concerned scientists for getting the information for preparing a bulletin from the core project on runoff and erosion prediction models. Dr. P.R. Ojasvi will be the senior author and Dr. R.S. Kurothe, Dr. A.K. Tiwari, Dr. Ambrish Kumar, Dr. V.K. Bhatt and Dr. D.R. Sena will be co-authors of the bulletin. Information on the given format may be submitted by concerned scientists to Dr. P.R. Ojasvi and the bulletin may be published by next IRC meeting.
2. Rainfall data set of Vasad Centre may be provided by Dr. N.M. Alam to Dr. D.R. Sena for its analysis. Analysis results may be provided to Er. K.P. Tripathi, PI, NPCC project for correlating the production data with rainfall and conservation measures by July 15, 2013. Findings of NPCC project may be circulated to all scientists by Er. K.P. Tripathi and all the data be handed over to Dr. D.R. Sena before his retirement.
3. Data format of modeling developed for collection of data in different projects may be sent by Dr. D.R. Sena, Sr. Scientist (Engg.) to all Heads of Research Centres and Divisions by June 30, 2013.
4. First draft regarding information on ITKs collected and compiled by Er. K.P. Tripathi, Pr. Scientist (Engg.) may be submitted by July 10, 2013 positively.
5. Report on all data computed and analyzed from Chandigarh and other Research Centres on Soil Threat Index by Dr.(Ms.) Sharmistha Pal, Scientist, should be submitted by June 30, 2013 positively.
6. Two units of field level sediment sampler may be got fabricated by Dr. Gopal Kumar, Scientist and tested at Vasad Centre and Headquarters, Dehradun. Funds for this activity will be provided by the Institute.
7. Final report on the criteria for identification of landslide prone areas and cumulative index for identifying vulnerability of landslide prone areas may be submitted by Dr. G.P. Juyal, Head, H&E Division by June 30, 2013 positively. The report may include the reasons for not developing a common report for different hilly ecosystems i.e. Himalayan, Shiwalik and Nilgiris hills.
8. The technologies developed by the Institute in collaboration with SAUs, KVKs and other line departments should be disseminated for making production systems resilient to climate change. Dr. Bankey Bihari, Pr. Scientist (Ag. Extn.) may co-ordinate the action taken in this regard by getting reports from all Research Centres and Divisions, and a compiled report may be submitted by July 31, 2013 positively.

9. A common terminology and methodology of measuring carbon sequestration, carbon stock and carbon budgeting should be finalized by the constituted team headed by Dr. B.N. Ghosh in association with Dr. Rajive Singh, Dr. O.P. Chaturvedi and Dr. A. Raizada, and sent to all scientists by June 15, 2013 for comments and suggestions. Final report on methodology may be sent to all Heads of Research Centres and Divisions by June 30, 2013, which will be followed by all scientists.
10. Rainfall chart of all previous years available at Research Centres may be sent by all Heads to Dr. N.M. Alam, Scientist (Ag. Stat.). Initial analysis of rainfall chart may be done by Dr. N.M. Alam and submitted by August, 2013.
11. Capacity building of other scientists from Agra and Kota Centres may be taken up by Dr. Gopal Kumar, Scientist (Soils), Research Centre, Vasad for learning the methodologies of RS/GIS used for Mahi ravines under a concluded project.
12. A technology brochure may be published with all options for economical use / establishment of terrace risers under concluded project entitled “Technique for establishment of tea on terrace risers in the Nilgiris”. Liaisoning with state departments, KVKs and line departments may be done for upscaling the developed technologies. Collection of yield data may be continued. Economics may be worked out before submitting final recommendations by June, 2013.
13. A bulletin may be published on results obtained from concluded project entitled “Fuelwood and fodder production from densified plantations on old riverbed lands”. Economics may also be worked out and included in the bulletin.
14. Information on different crops may be synthesized by Dr. P.P. Adhikary, Scientist (Soils) under concluded project entitled “Analysis of climatic data for evolving drought indices towards planning sustainable cropping systems in Bundelkhand”. Number of crops may be reduced for demonstration of the results under the ToT programme.
15. Economic analysis, water use efficiency and water saving may be calculated by Er. S. Patra, Scientist (Engg.) under concluded project entitled “Integration of low cost water harvesting and micro irrigation for resource conservation and sustainable vegetable production in terraced lands in North-Western Himalayas”. It may also be demonstrated in technology park.
16. As the project entitled “Participatory dissemination and assessment of land and water management technologies for livelihood security in rainfed areas of north-western Himalayas” under TDET scheme, Dept. of Land Resources, MoRD carried out at Headquarters, Dehradun has been extended by the funding agency (TDET-MoRD) for one more year vide the letter No. 5-2/2006-TE dated 14.06.2013, hence, the project will conclude in March, 2014. Findings of the project may be published for which the write-ups may be submitted by Dr. Charan Singh and Dr. Bankey Bihari to Dr. B.L. Dhyani by June, 2013. All the scientists associated with this project must work hard to bring out good publication out of it so that the good work is properly documented.
17. Cumulative index of constraints may be developed under concluded core project entitled “Capacity building programmes for watershed management in India: Assessment and impact analysis”. Correlation between variables and policy prescriptions may also be estimated and reported.
18. Complete Annual Report of Research Centres/Divisions should be submitted by the concerned Heads as per the latest Annual Report format giving all captions (tables, photos and figures) in English and Hindi by February 28, 2014 positively. Executive summary of research projects should also be submitted in English and Hindi by all Heads to print a bilingual Annual Report, as desired by ICAR. The list of publications from a Centre / Division must have latest NAAS rating of each research paper included in the list.

19. A hard copy of the published papers during the year be submitted to the PME Cell alongwith latest NAAS Rating every year. In case, there is more than one author from our Institute, only first author should submit the paper.
20. If Leader of a project proceeds on leave for more than six months at a stretch, he/she may join the project after returning from the leave as Project Leader on submission of formal request to the Director, who shall approve depending upon merit of the case. During the leave period, the First Associate of the project or a Scientist nominated by the Head of the Centre/Division (with approval of the Director) will work as Leader of the Project and name of the person (Project Leader) on leave will be deleted from list of the project team for the year(s) during which the leave period falls for more than six months at a stretch.
21. On joining of a scientist during the year at a Centre or Division, and Head of the Centre / Division feels that his association to a particular project will help in achieving its objectives significantly, the same may be discussed at local level and proper proposal to this effect may be submitted to the Director through OIC, PME Cell so that interest of the scientist may be protected.
22. Monthly Cabinet Reports should be submitted by all Heads highlighting salient achievements of research projects for onward transmission to the Council latest by 15<sup>th</sup> of every month. The report must be regular, proper, reportable and in quantifiable manner as per 'Time Frame Proforma' for the report circulated during IRC meeting, 2013.
23. Information for Results Framework Document (RFD) progress must be submitted regularly by all Heads of Research Centres and Divisions. Documentary proof should also be submitted in proper shape in the format already circulated in "Time Frame Performa".
24. All the Research Progress reports from the year 2013-14 is to be submitted in RPP format only. While submitting RPPs by leader of a project, a certificate should be submitted by the leader and countersigned by the concerned Head that "Raw data from the project have been collected meticulously and recorded in the data register in the custody of the leader of project".
25. Precise write-up and recommendations emerging out from projects concluded in 2012-13 should invariably be submitted by the leader of projects through their respective Heads by June 30, 2013 positively.
26. Each scientist of Headquarters and Research Centres may be allowed to attend only two conferences / workshops etc. in a year, preferably by train for which prior approval of the Director may be taken by the senior author on the recently developed proforma for presentation of paper. Case of attending more than two conferences in a year by a scientist will be considered only on merit by the Director.
27. Gauging devices should be maintained at all Research Centres for which the name of Engineering Scientist/Technical Officer (Engg.) responsible for monitoring may be identified and communicated to the Head, H&E Division for record under intimation to the Director.
28. For all the projects recording runoff and soil loss, an attempt should be made to calculate the nutrient (primary and secondary) loss alongwith carbon and clay loss. The nutrient status in soil sample may also be calculated.
29. It is mandatory to attend the IRC meeting of the Institute by all scientists of Research Centres and Divisions. In case of absence by any scientist due to any specific reason, a written justification through the concerned Head must be submitted to the Director prior to IRC meeting. Otherwise, disciplinary action will be taken and reflected in ACR of the scientist.
30. A certificate should be submitted by all Heads of Research Centres/Divisions prior to IRC meeting that "Local IRC has been organized at the Research Centre/Division level and all the projects have been presented before Scientists and Technical Officers and all the concerned Salient Recommendations of IRC have been discussed".