

# **Seventh Meeting of the Senate**

**5<sup>th</sup> April, 2013, 11:00 hrs**

## **AGENDA**



**ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH**

**Anusandhan Bhawan, 2 Rafi Marg, New Delhi-110 001**

# Academy of Scientific and Innovative Research

## Agenda for the Seventh Meeting of the Senate

5<sup>th</sup> April, 2013; 11:00 hrs

Venue: Room No. 101, Anusandhan Bhawan, CSIR HQ, New Delhi-110 001

Item		Page No.	Annexure (Reference)
<b>INITIATION OF THE MEETING</b>			
1	Welcome Address by Acting Director, AcSIR and Chairman of the Senate		
2	Action taken Report on the 6 <sup>th</sup> Meeting of the Senate and Confirmation of the Minutes	2	I, II
<b>ITEMS FOR RATIFICATION</b>			
3	Ratification of admission to PhD (Science and Engineering) programme for August 2012 and January 2013 sessions	4	III
4	Ratification of courses for PhD (Science): CSIR, CLRI (Biological Sciences), CSIR-NIIST (Chemical and Physical Sciences) and CSIR-CIMFR (Chemical Sciences)	5	IV
5	Redistribution of credit for Transportation Engineering programme offered by CSIR-CRRI	6	V
<b>ITEMS FOR INFORMATION</b>			
6	Deferment of enrollment of students selected for January 2013 session to August 2013 session for CSIR-NISTADS and at CSIR-NBRI	8	VI
7	Transfer of a student enrolled at AcSIR PhD programme at CSIR-CIMAP to CSIR-CFTRI	9	VII
8	Change of Faculty from Engineering Science to Biological science for students at CSIR-NCL and Change from Chemical Science to Biological Science at CSIR-CLRI	10	IV, VIII

Item		Page No.	Annexure (Reference)
9	Request for a PhD student of CSIR-NBRI to submit CSIR-800 project and thesis as a non-residential student	11	IX
10	Change of Thesis guide for students at CSIR-CSMCRI and CSIR-NCL	12	X
11	Provisional Enrollment for PhD of DBT-TWAS Fellow at CSIR-NIIST in January 2013 session	13	XI
<b>ITEMS FOR DISCUSSION AND APPROVAL</b>			
12	Enrollment of INAE-AICTE sponsored candidates in the PhD programme of AcSIR	15	XII
13	Enrollment of Sponsored candidates for M.Tech and Ph.D programme of AcSIR: Academic requirements and Fee structure	16	XIII
14	Proposal for recognition of Non-CSIR faculty as Co-Guides only	17	XIV
15	Award of Adjunct Faculty (CSIR-CBRI, CSIR-CMERI, CSIR-NML and CSIR-OSDD Unit)	18	XV
16	Proposal for introduction of Integrated MSc-PhD programme in Clinical Research and Health Informatics in collaboration with PHFI	19	XVI, XVII
17	Integrated MTech-PhD programme for August 2013 session	20	-
18	Ph.D programme in Science and Engineering for August 2013 session	21	-
19	Proposal for MS by research	22	XVIII
20	Any other issue with the permission of the Chair		

x

## INITIATION OF THE MEETING

- Item No. 1: Welcome Address by Acting Director, AcSIR and Chairman of the Senate**
- Item No. 2: Action taken Report on the 6<sup>th</sup> Meeting of the Senate and Confirmation of the Minutes**

## **Item No. 2: Action taken Report on the 6<sup>th</sup> Meeting of the Senate and Confirmation of the Minutes**

AcSIR had convened the 6<sup>th</sup> Meeting of the Senate on December 3, 2012 to address a few urgent issues including ratification of admission and course related issues. The Action Taken Report on the same is enclosed as **Annexure – I**.

The Minutes of the 6<sup>th</sup> Meeting of the Senate of AcSIR held on December 3, 2012 is enclosed as **Annexure – II** for confirmation by the members of the Senate.

## ITEMS FOR RATIFICATION

**Item No. 3: Ratification of admission to PhD (Science and Engineering) programme for August 2012 and January 2013 sessions**

**Item No. 4: Ratification of courses for PhD (Science):  
CSIR-CLRI (Biological Sciences),  
CSIR-NIIST (Chemical and Physical Sciences)  
CSIR-CIMFR (Chemical Sciences) and**

**Item No. 5: Redistribution of credit for Transportation Engineering programme offered by CSIR-CRRI**

### **Item No. 3:Ratification of admission to PhD (Science and Engineering) programme for August 2012 and January 2013 sessions**

The admission of students for Ph.D programme in (Science and Engineering) of AcSIR for the January 2013 session has been completed and the academic session has started as per schedule in January 2013 at the different participating laboratories. In all, **488** students have been selected in the Ph.D (Sciences and Engineering) programme in the different laboratories.

Also, a few admissions from August 2012 session from CSIR-CDRI remained to be ratified at the last meeting of the Senate. The list of admissions from CSIR-CDRI for the August 2012 session is also being placed for ratification by the Senate.

**Proposal:** The lists of selected candidates in the Ph.D programmes in Science and Engineering from the different laboratories with proper approval of the respective cluster Deans and the Chairman, Senate are being submitted to the Senate for ratification for the August 2012 and January 2013 academic sessions.

#### **Annexure –III**

**Item No. 4:Ratification of courses for PhD (Sciences):  
CSIR-CLRI (Biological Sciences),  
CSIR-NIIST (Chemical and Physical Sciences),  
CSIR-CIMFR (Chemical Sciences) and**

In an ongoing effort to keep the course content updated and to introduce new courses relevant to the programmes offered at the different laboratories, a few new courses have been introduced by the following laboratories which have received approval of the respective Deans and the Chairman of the Senate:

- CSIR - CLRI (Biological Sciences) for Ph.D
- CSIR - NIIST (Chemical and Physical Sciences) for Ph.D
- CSIR - CIMFR (Chemical Sciences) for Ph.D and
- CSIR - NISCAIR (Engineering Sciences) for Ph.D

The Senate in its previous meeting held on September 12, 2012, approved in principle the course content for Ph.D. (Science and Engineering) offered by the five Faculty of study that has been restructured as per the guidelines for credit distribution and course nomenclature. New courses are being introduced at CSIR-CLRI, CSIR-NIIST and CSIR-CIMFR for PhD (Science) and at CSIR-NISCAIR for PhD (Engineering) programme commencing August 2013 session.

**Proposal:** The new courses are being placed as **Annexure IV** for ratification by the Senate.



## **Item No. 5: Redistribution of credit for Transportation Engineering programme offered by CSIR-CRRI**

CSIR-CRRI has been offering M.Tech (Transportation Engineering) from August 2012 session. This 4 semester course as approved by AcSIR senate has total of 70 credits. The distribution of credits per semester is given below:

Semester I- 17  
Semester II-18  
Semester III- 15  
Semester IV- 20

The programme coordinator has indicated that the variation in credits of Semester III and Semester IV needs minor modification as follows:

Semester I-17 (No change)  
Semester II-18 (No Change)  
Semester III-17 (Increased by 2)  
Semester IV-18 (Decreased by 2)

The Dean of Engineering Science and Chairman, Senate has approved the proposed modifications in credit distribution in the III<sup>rd</sup> and IV<sup>th</sup> Semester of the M.Tech programme in Transportation Engineering.

**Proposal:** The revised credit distribution as approved by the Dean of Engineering Sciences and the Chairman, Senate is tabled for approval of the Senate.

### **Annexure V**

## ITEMS FOR INFORMATION

- Item No. 6: Deferment of enrollment of students selected for January 2013 session to August 2013 session for CSIR-NISTADS and CSIR-NBRI**
- Item No. 7: Transfer of a student enrolled at AcSIR PhD programme at CSIR-CIMAP to CSIR-CFTRI**
- Item No. 8: Change of Faculty from Engineering Science to Biological science for students at CSIR-NCL and Change from Chemical Science to Biological Science at CSIR-CLRI**
- Item No. 9: Request for a PhD student of CSIR-NBRI to submit CSIR-800 project and thesis as a non-residential student**
- Item No. 10: Change of Thesis guide for students at CSIR-CSMCRI and CSIR-NCL**
- Item No. 11: Provisional Enrollment for PhD of DBT-TWAS Fellow at CSIR-NIIST in January 2013 session**

**Item No. 6: Deferment of enrollment of students selected for January 2013 session to August 2013 session at CSIR-NISTADS and CSIR-NBRI**

For the January 2013 session, CSIR-NISTADS, New Delhi had selected **8** students for its PhD in Science programme who had all shown willingness to join the programme from the January 2013 session. However, only one student was having a valid fellowship and the rest of the students were expecting financial support from other sources, which remained unconfirmed at the beginning of the session. Also, the faculty-in-charge of a core course is also unavailable till the middle of the year. In view of the difficulty in commencing the session in January 2013 at CSIR-NISTADS, as forwarded to the Dean of MIS, the Dean has recommended the deferment of enrollment of the 8 students till the August 2013 session. The Senate Chairman has also accorded approval on the recommendation of the Dean of the faculty.

Another request has been received from a student selected for enrollment at CSIR-NBRI for the January 2013 session, Ms. Priya Gupta that she may be allowed to join the programme from the August 2013 session owing to the fact that she is currently pursuing BEd degree. The request has been recommended by the Dean of Biological Sciences and duly approved by the Chairman, Senate on recommendation of the concerned Dean.

**Proposal:** The Senate is being informed for deferment of enrollment of the 8 students selected for the January 2013 session at CSIR-NISTADS till the August 2013 session. The list of selected candidates for the January 2013 session at CSIR-NISTADS is being placed as **Annexure VI** for approval of the Senate.

**Item No. 7: Transfer of a student enrolled at AcSIR PhD programme at CSIR-CIMAP to CSIR-CFTRI**

A student at CSIR-CIMAP, Ms. Ramya Visvanathan (AcSIR Enrollment No. 10BB12J10006) has been enrolled for the ACSIR PhD programme in January 2012 session under the mentorship of Prof. Ram Rajasekharan. Prof. Ram Rajasekharan has recently taken charge of CSIR-CFTRI as Director of the Institute. In view of the above, Ms. Vishvanathan has requested her enrollment may be transferred to CSIR-CFTRI so that she can continue working under the mentorship of Prof. Rajasekharan. Her request has been accepted by the Coordinators of the concerned labs and the transfer has also been approved by the Dean of Biological Science. On recommendation of the Dean, the Senate Chairman has also accorded his approval on the transfer.

**Proposal:** The transfer of Ms. Ramya Vishvanathan, AcSIR PhD student enrolled in the January 2012 session from CSIR-CIMAP to CSIR-CFTRI is being placed as **Annexure VII** for approval of the Senate.

**Item No. 8: Change of Faculty from Engineering Science to Biological science for students at CSIR-NCL and Change from Chemical Science to Biological Science at CSIR-CLRI**

Ms. Selva Rupa Christinal and Ms. Deepanwita Das had joined for PhD in Chemical Engineering in the August 2011 session under the mentorship of Dr. Anu Raghunathan. Considering their background and current research interest, they have applied for a change of faculty from Engineering Sciences to Biological Sciences. The Deans of both the faculty have approved the transfer of faculty.

Mr. P. Kumar Raja (AcSIR roll no.: 20EE12A26074) of CSIR-NCL has enrolled for the PhD programme in Engineering in the August 2012 session. Considering his background in Biotechnology, he has requested a change in his faculty from Engineering Sciences to Biological Sciences along with a request for change in Guide from Dr. Ashish Orpe to (Engineering Sciences) to Dr. J. M. Khire (Biological Sciences). The change has been duly approved by the Dean of both the faculties and the Chairman, Senate.

Also, at CSIR-CLRI, four students had taken admission in the January 2013 session in the PhD programme in Chemical Sciences. These four students, **Duraipandy Natarajan, Adetoun Lawal, S Kavitha and P. Sathiamurthi** have requested their enrollment to be changed to the faculty of Biological Sciences. The transfer has been approved by the Deans of the respective faculties and subsequently the Senate Chairman has also accorded his approval.

**Proposal:** The request for the change of faculty from Engineering Sciences to Biological Sciences for two students at CSIR-NCL and change of faculty from Chemical Sciences to Biological Sciences for four students at CSIR-CLRI are being placed as **Annexure IV and VIII** for approval of the Senate.

**Item No. 9: Request for a PhD student of CSIR-NBRI to submit CSIR-800 project and thesis as a non-residential student**

Ms. Priya Gupta (Enrollment No. 10BB11J25007) was enrolled for PhD at ACSIR in the January 2011 session at CSIR-NBRI, Lucknow. Ms. Gupta has completed all her academic requirement and her Comprehensive examination is also done. Due to some personal reason, Ms. Gupta needs to move to New Delhi and has requested that she be permitted to complete her CSIR-800 societal project and thesis submission as an off-campus student. Her advisor has also accorded his consent to her request. The application was forwarded to the Dean of Biological Sciences and on his positive recommendation the Senate Chairman has also accorded his in-principle approval to her request and has confirmed that she may be allowed to submit her thesis in two year's time from the date of her Comprehensive examination.

**Proposal:** The in-principle approval of the Dean and Chairman, Senate is enclosed as **Annexure IX** for approval of the Senate.

## **Item No. 10: Change of Thesis guide for students at CSIR-CSMCRI and CSIR-NCL**

A request has been received from a student at CSIR-CSMCRI, Ms. Payal Sanadhya (AcSIR Enrollment Number 10BB11A16017), enrolled for the PhD programme of AcSIR in August 2011 session, to change her supervisor. Ms. Sanadhya was initially enrolled under the supervision of Dr. Asish Parida and has requested that she may be allowed to work under the supervision of Dr. PK Agarwal, who is an expert in Wasteland Research. All her academic requirements have been completed. The Dean of Biological Science and the Chairman, Senate have accorded their in-principle approval on the change.

Mr. P. Kumar Raja (AcSIR roll no.: 20EE12A26074) of CSIR-NCL has enrolled for the PhD programme in Engineering Sciences in the August 2012 session. Considering his background in Biotechnology, he has requested a change in his faculty from Engineering Sciences to Biological Sciences along with a request for change in Guide from Dr. Ashish Orpe (Engineering Sciences) to Dr. J. M. Khire (Biological Sciences). The change has been duly approved by the Dean of both the faculties and the Chairman, Senate.

**Proposal:** The in-principle approval of the Dean and Chairman, Senate is enclosed as **Annexure X** for approval of the Senate.

**Item No. 11: Provisional Enrollment for PhD of DBT-TWAS Fellow at CSIR-NIIST in January 2013 session**

Mr. Ayman Idris of Sudan, a DBT-TWAS fellow had applied online for the January 2013 session for the PhD programme of AcSIR at CSIR-NIIST. However, due to some technical difficulty, his application remained incomplete and hence he was not shortlisted for selection interview. AcSIR was contacted by representative from the Centre for International Co-operation in Science (CICS), who are coordinating the DBT-TWAS Post-Graduate & Post-Doctoral Fellowship Programme for developing country researchers who wish to pursue research in newly emerging areas of Biotechnology at premier research institutions in India. It was requested if his case could be considered for enrollment for the January 2013 session so that his fellowship is not disqualified.

Considering the situation, the Dean of Biological Sciences has approved his provisional enrollment to the PhD programme at CSIR-NIIST from the January 2013 session with the condition that he will have to fill up the online application form for PhD in the August 2013 session. His enrollment will be valid from August 2013 session. However, as a special case, his minimum residence for completing the coursework will be officially reduced to 3 semesters since he will be taking his courses as a provisionally enrolled candidate from January 2013 session. Based on the recommendation of the Dean of Biological Sciences, the Senate Chairman has also accorded his approval for the provisional enrollment of Mr. Ayman Idris, DBT-TWAS Fellow.

**Proposal:** The recommendation of the Dean of Biological Sciences and approval of the Senate Chairman is enclosed as **Annexure XI** for consideration and approval of the Senate.



## ITEMS FOR DISCUSSION & APPROVAL

- Item No. 12: Enrollment of INAE-AICTE sponsored candidates in the PhD programme of AcSIR**
- Item No. 13: Enrollment of Sponsored candidates for M.Tech and Ph.D programme of AcSIR: Academic requirements and Fee structure**
- Item No. 14: Proposal for recognition of Non-CSIR faculty as Co-Guides only**
- Item No. 15: Award of Adjunct Faculty (CSIR-CBRI, CSIR-CMERI, CSIR-NML and CSIR-OSDD Unit)**
- Item No. 16: Proposal for introduction of Integrated MSc-PhD programme in Clinical Research and Health Informatics in collaboration with PHFI**
- Item No. 17: Integrated MTech-PhD programme for August 2013 session**
- Item No. 18: Ph.D programme in Science and Engineering for August 2013 session**
- Item No. 19: Proposal for MS by Research**

## **Item No. 12: Enrollment of INAE-AICTE sponsored candidates in the PhD programme of AcSIR**

The Senate in its Special Meeting held on June 8, 2012 approved the induction of faculty in AICTE approved Engineering Colleges in AcSIR for its PhD programme in Engineering Sciences. Accordingly the Senate was informed in its 5<sup>th</sup> meeting held on September 12, 2012 that Prof. Nagesh Iyer, on behalf of the Academy, along with members from AICTE have outlined procedures for selecting young Lecturers and Assistant Professors from AICTE approved Engineering Colleges for Ph.D. at various engineering labs of CSIR. The members of the steering committee (which includes Prof. BD Kulkarni and Prof. SN Shome besides Prof. Nagesh Iyer, Associate Director-Academic) for selection of PhD candidates having members from AICTE, INAE, the Academy and other participating members in the scheme met on March 28, 2013 at New Delhi to select candidates who can be inducted in AcSIR for its PhD programme in Engineering Sciences for the August 2013 session. The participating Engineering labs had earlier communicated to AICTE-INAE the number of such students indicating the area of specialization who can be accommodated in each of the labs. Following a stringent selection criteria, the steering committee selected 7 candidates to be placed at participating CSIR labs who were willing to induct such sponsored doctoral students in their PhD programme. The participating labs which will be having these students are one at CSIR-CEERI, two at CSIR-CMERI, three at CSIR-IICT and one at CSIR-NCL. These candidates will join the PhD programme of the Academy as Sponsored candidates.

**Proposal:** The Minutes of the Steering Committee meeting of AICTE-INAE having representative from the Academy for selecting seven sponsored doctoral students from among faculties of AICTE approved Engineering Colleges to be placed at different CSIR Engineering labs under the AICTE-INAE sponsored programme for the PhD in Engineering programme of the Academy for the August 2013 session is being placed for approval of the Senate.

### **ANNEXURE: XII**

### **Item No. 13: Enrollment of Sponsored candidates for M.Tech and Ph.D programme of AcSIR: Academic requirements and Fee structure**

AcSIR is now in the process of admitting Sponsored Candidates in its MTech and PhD programme offered by different laboratories. The Senate, in its last meeting held on December 3, 2012, approved induction of sponsored candidates in AcSIR in its PhD programme and admission of two sponsored candidates in its MTech programme offered at CSIR-IIP for the August 2013 session. The Senate advised the formulation of academic guidelines and fee structure for the Sponsored candidates for MTech and PhD programme of AcSIR.

**Academic Requirement:** The Sponsored candidates enrolled for the MTech and PhD (candidates having MTech degree) programme of the Academy will have to complete the mandatory academic requirements for the programme in order to be awarded the degree. However, the Sponsored candidates in the MTech programme may complete their coursework in 2 semesters as residential candidate and can complete their project and thesis work in the next two semesters as non-residential candidates. The students enrolled in the PhD programme will have to complete their course work requirements as residential students in one semester. They may complete project proposal writing, review article and CSIR-800 course in another semester as non-residential candidates Comprehensive examination can only be allowed after completing 8 credits of coursework as a residential student.

**Fee Structure:** The Finance Committee met on December 17, 2012 and recommended that the fee structure for the Sponsored Candidates should be different than the regular candidates for any of the programmes. Any student taking admission for the MTech or PhD programme, not through the regular admission process followed by AcSIR, will be considered as 'Sponsored' and will attract a different fee structure. It was decided that the Semester tuition fee should be double the amount being charged from the regular students. Hostel & other fees for the residential students will be charged in addition as per respective lab policies. The Chairman of the Board of Governors has also accorded his approval on the fee structure for sponsored candidates proposed by the Finance Committee

**Proposal:** The academic requirements of the Sponsored MTech and PhD candidates as discussed in the 6<sup>th</sup> meeting of the Senate are being placed for consideration and approval. The Fee structure for such students as recommended by the Finance Committee and subsequently approved by the Chairman, Board of Governors is enclosed as **Annexure XIII** for approval of the Senate.

## **Item No. 14: Proposal for recognition of Non-CSIR faculty as Co-Guides only**

In the 5<sup>th</sup> meeting of the Senate held on September 12, 2012 positions of Adjunct faculty was approved by the Committee. The Adjunct Faculty in AcSIR would be actively involved in teaching and would act as co-guide to students enrolled at different programmes of AcSIR.

Several requests have been received from Coordinators of participating CSIR laboratories in AcSIR regarding inclusion of non-CSIR scientists from other Institutes/Universities to act only as co-guides to students enrolled at AcSIR in its programmes but who may not be involved in teaching activities. Expertise of such non-CSIR scientists may be sought for the research problem of a specific student only. This will actually give impetus to trans-disciplinary research.

CSIR-NCL has put forward a proposal for recognition of Dr. Bhaskar Saha from NCCS, Pune and Dr. Dipankar Ghosh from SCMM, JNU, New Delhi as co-guides for two AcSIR students of CSIR-NCL.

**Proposal:** Approval for inclusion of such scientists from other institutes/universities may be taken up on a case to case basis and may be approved by the respective Cluster Dean and the Senate Chairman. The proposed inclusion of non-CSIR scientists to act as co-guides only is being placed as **Annexure XIV** to the Senate for approval.

## **Item No. 15: Award of Adjunct Faculty (CSIR-CBRI, CSIR-CMERI, CSIR-NML and CSIR-OSDD Unit)**

Currently the scientists of CSIR are considered as faculty for conducting courses and to act as guides and co-guides of students pursuing M.Tech and Ph.D programmes of AcSIR. In addition, a few very distinguished scientists of very high academic caliber and international repute have been recognized by ASIR as Academy Professors.

Proposals have been received from CSIR-CBRI, CSIR-NML and CSIR-OSDD Unit for inclusion of a few Adjunct Faculty of high national and international repute to be inducted as Adjunct Professors of the Academy.

**CSIR-CBRI:** Prof. Deepankar Choudhury, IIT, Roorkee  
(Engineering)

**CSIR-CMERI:** Prof. B.C. Majumdar, Former Deputy Director, IIT Kharagpur  
(Engineering)

**CSIR-NML:** Dr. Siddhrath Misra, Head Technology, FPT Group, TATA Steel  
Mr. Vikas Singh, Principal Researcher at Tata Steel R&D, Jamshedpur  
(Engineering) Dr. T. Venugopalan, Advisor to MD, Tata Steel Jamshedpur  
Prof. H. S. Ray, Former Director RRL, Bhubaneswar and former Emeritus  
Scientist, CSIR-CGCRI  
Dr. A. K. Mukherjee, Principle Scientist, Tata Steel  
Dr. A. K. Majumdar, Associate Professor, Mining Engineering, IIT Kharagpur

**CSIR-OSDD:** Prof. Sir Tom L Blundell, FRS, FMed Sci, Cambridge University, UK  
(Biological) Dr. Hiraoki Kitano, President, The Systems Biology Institute, Japan  
Dr. David J. Wild, Asst. Professor, Indiana University, Indiana, USA  
Dr. Samik Ghosh, Senior Scientist, The Systems Biology Institute, Tokyo, Japan  
Dr. Nagasuma Chandra, Associate Professor, IISc, Bangalore  
Dr. Andrew Lynn, Associate Professor, School of CIS, JNU, New Delhi  
Dr. Niyaz Ahmed, Staff Scientist, CDFD, Hyderabad  
Dr. R. Sowdhamini, Associate Professor, NCBS, Bangalore

**CSIR-OSDD:** Bernard H Munos, InnoThink Center for Research in Biomedical Innovation  
Indianapolis, IN, USA  
(MIS) Prof. Rajanish Dass, Consultant & Distinguished Professor and Director Research  
at Great Lakes Institute of Management, Ahmedabad, India

The proposals received for Adjunct Faculty of AcSIR have received the approval of the respective Cluster Deans and the Chairman, Senate.

**Proposal:** The brief resume of the above distinguished faculties are being placed to Senate for consideration and approval for the position of Adjunct Faculty position in AcSIR so that their rich experiences in their own respective domains could add strength to the Academy.

### **Annexure XV**

## **Item No. 16: Proposal for introduction of Integrated MSc-PhD programme in 'Clinical Research' and 'Health Informatics' in collaboration with PHFI**

Public Health Foundation of India (PHFI) had approached AcSIR to collaborate on the mutual expertise of ACSIR and PHFI in **Clinical Research** and **Health Informatics**. The PHFI faculty approached the Acting Director and Senate Chairman Prof. Gautam Biswas and Chairman, BoG of AcSIR, Prof. R.A. Mashelkar for a joint **Integrated M.Sc-Ph.D programme** to be conducted by PHFI and AcSIR.

Following the request of PHFI and suggestions received from the Chairman and the Vice Chairman of BoG of AcSIR, a series of joint meetings were conducted between some faculty of AcSIR and PHFI. AcSIR Board of Governors has already accorded its in-principle administrative approval for the joint programme. Following which PHFI submitted the courses that are to be offered for the M.Sc part of the Integrated M.Sc-Ph.D programme. The course components were vetted by the Dean of Biological Sciences. Based on the recommendation of the Dean of Biological Sciences, AcSIR Director fine-tuned the Credit requirements on this programme and gave tentative approval as the Chairman-Senate.

In order that the programmes may be initiated from August 2013 session itself, the proposals were circulated by e-mail among the members of the Senate for their in-principle approval on March 4, 2013. Majority of the esteemed members have responded back positively, welcoming the new initiative. The minor comments put forward by the members have been incorporated in the proposal documents. Any other suggestions arising out of the Senate discussion will be suitably adopted in the academic programme. The proposal has also received the approval of Chairman, Board of Governors subsequent to receipt of in-principle approval of the Senate.

**Proposal:** The complete package is being tabled for approval and suggestions of the members of the Senate. The decision pertaining to PHFI's academic programme needs approval of the Senate members.

### **Annexure XVI, XVII**

## **Item No. 17: Integrated MTech-PhD programme for August 2013 session (Updated Agenda Item)**

Following procedures should be followed by all the concerned Lab./Instt. of CSIR involved in PGRPE-2013 admission to Integrated MTech-PhD programme for August 2013 session. The following four categories of students may be selected for each specialization of the programme:

- i. **Trainee Scientists (TS):** After having successfully completed the MTech part of the Integrated MTech-PhD programme of AcSIR, the TS will be inducted into regular stream and deployed in the respective Labs./Instt. of CSIR. The Labs./Instt. of CSIR should indicate the total number of scientific cadre/ posts to be filled up with the point of reservation (i.e. UR / SC / ST / OBC, etc. as the case may be) as per post based reservation roster maintained at the Labs./Instt. of CSIR and other salient features concerning about reservation policy of GoI/CSIR and forward it to RAB for the purpose of advertisement. Area / Programme-wise allocation of these positions should be decided by the Director of the Lab./Instt. of CSIR after TS interviews, taking into account the candidates finally joining the programme. The Selection Committee will be constituted as per CSIR rules in consultation and approval of RAB, CSIR.
- ii. **QHF:** The candidates admitted via QHF mode of selection will draw stipend from the Lab./Instt. of CSIR following QHF scheme of CSIR till they complete the MTech programme. After completing MTech, exit route will be made available to the successful candidates with an MTech degree. Any such candidate may like to join PhD programme of AcSIR as well. They will be supported by CSIR-SRF under CSIR-HRDG (EMR) during the Ph.D programme provided the candidate meets all the eligibility criteria. The Selection Committee will be constituted and duly approved by RAB, CSIR.
- iii. **NET Engineering Qualified Candidates:** The NET Engineering qualified candidates are eligible to apply for Integrated MTech-PhD programme. If selected, they will obtain stipend (JRF) from CSIR-EMR for completing MTech. They too will have an exit route. However, they can continue with their fellowship (likely to be enhanced) for completing PhD.
- iv. **GATE (JRF):** GATE (JRF) in Engineering are eligible to apply for Integrated MTech-PhD programme. Their financial support route is same as the NET Engineering qualified students.
- v. **Project Sponsored Candidates:** The Lab./Instt of CSIR may select candidates for a specified programme who will be financially supported by any Industry / Agency / Organisation throughout the programme. However, a firm commitment from the sponsoring body has to be obtained by the Lab./Instt of CSIR *a-priori* for each candidate.
- vi. **Industry Sponsored Candidates:** The Lab./Instt. of CSIR may admit candidates who are working professional in Industry and sponsored by the same industry to undergo MTech part of the PGRPE Programme. Such candidates normally should not be more than one in each specialization of the programme. The candidates are to be interviewed by the same selection committee as per i) & ii) above.

The Laboratories are requested to submit documents for each specialization of the programme addressing the requirements of the students based on the above mentioned issues. For the requirement of TS programme, the Laboratories have to submit the documents pertaining to recruitment to Head-RAB, CSIR.

## Item No. 18: PhD programme in Science and Engineering for August 2013 session

As in the previous years, the admission process for the PhD programme in Science and Engineering are going to be initiated and online application for admission to the PhD programmes offered by the different faculties will be operational shortly.

With the introduction of CSIR (NET) JRF in Engineering Sciences for which examination was conducted by CSIR in December 2012, candidates can be enrolled for the Integrated-Ph.D programme (Direct PhD) in Engineering where CSIR EMR funding will provide the stipend (JRF and SRF) for pursuing PhD to the students. However, they have to complete the course work and comprehensive following the Requirement Table (see below) for the B.Tech entrants that was approved in the last Senate Meeting.

Qualification for admission to Direct PhD in Engineering	Admitted to	Anticipated Fellowship	End-point	Coursework requirement
B.Tech + GATE/NET	Integrated Ph.D	CSIR(NET)-GATE-JRF	Ph.D	24+4+8
B.Tech + 2-year experience as PA/CSIR-SRF/Industrial Sponsored Candidates	Integrated Ph.D	CSIR-SRF/PA/Salary from organization (for Sponsored candidates)	Ph.D	16+4+8
B.Tech or M.Sc + National-level fellowship/ Ranked first in University	Integrated Ph.D	Fellowship (SPM, INSPIRE, CSIR-NET-JRF etc)	Ph.D	24+4+8



## **Item No. 19: Proposal for MS by Research**

In the 6<sup>th</sup> meeting of the Senate held on December 3, 2012, two proposals were received for introduction of the Masters by Research (MS by Research) programme at AcSIR, both in the Engineering faculty and the Science faculty. Accordingly, a Senate Committee was formed under the Chairmanship of Prof. SK Bhattacharya having Dr. Vinod Scaria, Senate member, the two proposers from the Engineering and Science Faculty, Prof. Ashish Lele and Dr. Shantanu Sengupta as members.

The Committee recommended the required qualification for the students to be enrolled in the programme, course structure including duration of the programme and financial aspects with possibilities of the students being enrolled for the PhD programme of the Academy with specific recommendation of an Academic Committee set up at the participating institutes.

**Proposal:** The Minutes of the Senate Subcommittee is enclosed as **Annexure XVIII** for consideration and approval of the members of the Senate.