

# **Seventeenth Meeting of the Senate**

**19<sup>th</sup> August 2016, 10:00 hrs.**

## **AGENDA**



### **ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH**

**Headquarters:** Training and Development Complex,  
CSIR Campus, CSIR Road, Taramani, Chennai- 600 113

**Coordination Office:** CSIR-Central Road Research Institute,  
CRRRI P.O., Delhi-Mathura Road, New Delhi- 110 025

# Academy of Scientific and Innovative Research

## Agenda for the 17<sup>th</sup> Meeting of the Senate

19<sup>th</sup> August 2016; 10:00 hrs.

Venue: CSIR-Central Food Technological Research Institute, Mysore - 570020

Item		Page No.	Annexure
<b>INITIATION OF THE MEETING</b>			
1	Welcome Address by Chairman of the Senate and Acting Director, AcSIR	1	-
2	Update on major activities of AcSIR	1	-
3	Confirmation of the minutes of the 16 <sup>th</sup> meeting of the Senate	1	A-1
4	Action Taken Report (ATR) on the 16 <sup>th</sup> meeting of the Senate	2	A-2
<b>ITEMS FOR INFORMATION</b>			
5	Faculty related issues: i) Updates on Faculty List of AcSIR ii) Dual faculty position iii) Recognition of Associate Professor as Professor of AcSIR on elected as a Fellow of an Academy iv) Inclusion of Co-Guide for a student at CSIR-IGIB	3	A-3(a) A-3(b) A-3(c) A-3(d)
<b>ITEMS FOR RATIFICATION</b>			
6	Student related issues: (i) Change in faculty of study (ii) Change in host CSIR Lab (iii) Application for maternity leave	5	A-4(a) A-4(b) A-4(c)
7	Admissions for the August 2016 session (i) PhD program in Science and Engineering (ii) Integrated MSc-PhD program in Nutrition Biology (iii) Integrated MSc-PhD program in Clinical Research and Health Informatics (AcSIR-PHFI) (iv) Post Graduate Diploma in Patinformatics (v) MSc Program in Food Technology at CSIR-CFTRI	7	A-5(a) A-5(b) A-5(c) A-5(d) A-5(e)
8	MTech results (2014-16 batch) for the award of the Degree	9	A-6
9	PhD (Science) and (Engineering) results for the award of the Degree	10	A-7
10	Post Graduate Diploma in Patinformatics (2015 batch) for the award of the Degree	11	A-8
11	Integrated MSc-PhD program (2014-16 batch) for the award of the Degree	12	A-9
12	Course Related Items	13	A-10

<b>Item</b>		<b>Page No.</b>	<b>Annexure</b>
<b>ITEMS FOR DISCUSSION &amp; APPROVAL</b>			
13	Academic Issues related to PhD program (i) Approval process for Comprehensive Committee: Suggested modification (ii) PhD Sponsored candidates: Difference in the guidelines for comprehensive examination	14	-
14	Request to reconsider the case of PhD submission of Mr. Akkiraju Vyasulu at CSIR-NGRI	16	A-11
15	An update on UGC's recommendation for award of MPhil/PhD Degree, 2016: implication to the procedure followed by AcSIR	17	A-12
16	Issues related to PhD (Engg.) program (i) Guidelines for PhD (Engg.) Programs: Some More Issues (ii) Minor Inconsistencies in Guidelines for PhD (Engg.) Programs	22	A-13(a) A-13(b)
17	Proposal on part-time MTech and part-time PhD in Engineering	23	A-14
18	PhD Thesis submission related guideline: follow up from last Senate meeting	24	A-15(a) A-15(b)
19	Issuance of Duplicate Certificate on request: Need to formulate the procedure	25	16
20	Introduction of Diploma/ PG Diploma related to Skill India Program (i) New Proposal (ii) Proposals under Consideration	26	A-17(a) A-17(b) A-17(c)
21	Complaints received from CSIR-4PI student issue	28	-
22	Need to fix tenure of AcSIR Lab Coordinators	29	-
23	Any other Item with permission of the Chair	-	-

## Initiation of the Meeting

**Item No. 1**      **Welcome address by the Chairman of the Senate and Acting Director, AcSIR**

**Item No. 2**      **Update on major activities of AcSIR by Associate Director**

AcSIR has recently received the report of the Fact Finding Committee (FFC) formed by Secretary, DSIR in 2016. The Associate Director will give an update on the major issues pointed out by FFC and other related matters that are currently being handled at AcSIR offices.

**Item No. 3**      **Confirmation of the minutes of the 16<sup>th</sup> meeting of the Senate**

The 16<sup>th</sup> meeting of the Senate of AcSIR was held on May 6, 2016 at CSIR-IGIB, Mathura Road, New Delhi 110020.

The Proceedings of the 16<sup>th</sup> meeting were accepted by the Chairman and circulated among the members of the Senate by e-mail on June 17, 2016 for their comments/ observations. No comment has been received on the Proceedings.

The Proceedings of the 16<sup>th</sup> meeting of the Senate held on May 6<sup>th</sup>, 2016 is being put to the Senate for acceptance and confirmation at **Annexure A-1**.

## **Initiation of the Meeting**

### **Item No. 4      Action Taken Report (ATR) on the 16<sup>th</sup> Meeting of the Senate**

The Action Taken Report on the Proceedings of the 16<sup>th</sup> meeting of the Senate of AcSIR held on May 6, 2016 is furnished at **Annexure A-2**.

## Item for Information

### Item No. 5 Faculty related

- (i) Updates on Faculty List of AcSIR
- (ii) Dual Faculty position
- (iii) Recognition of Associate Professor as Professor of AcSIR on elected as a Fellow of an Academy
- (iv) Inclusion of Co-Guide for a student at CSIR-IGIB

#### (i) Updates on Faculty List of AcSIR

*(Modifications received since 16<sup>th</sup> Senate Meeting)*

The Senate in its eighth meeting on August 2, 2013 had approved the *Faculty Guidelines of AcSIR*. The collated list of faculty was placed and approved in the 9<sup>th</sup> meeting of the Senate.

AcSIR routinely receives requests for modification of faculty list based on participation of newly hired CSIR scientists in the Academy, promotion, superannuation or resignation of the existing staffs. Approval of the Chairman, Senate (as authorized at the 9<sup>th</sup> meeting of the Senate) has been obtained for appropriate changes in the Faculty for the following Labs:

Sl. No.	Name of CSIR Lab/ Institute	Status
1	CSIR-CBRI	Addition
2	CSIR-CEERI	Modification
3	CSIR-CIMAP	Addition/Modification/Deletion
4	CSIR-CSMCRI	Addition/Modification
5	CSIR-IHBT	Addition
6	CSIR-IITR	Addition/Modification/Deletion
7	CSIR-IMMT	Addition
8	CSIR-NCL	Modification/Deletion
9	CSIR-NGRI	Modification
10	CSIR-URDIP	Modification
11	CSIR-SERC	Deletion

Details are placed at **Annexure A-3(a)** for information of the Senate.

#### (ii) Dual Faculty position

Dr. SP Singh, Scientist, CSIR-IITR, recognized as Assistant Professor in Biological Sciences, had requested for recognition in Chemical Sciences discipline as well (dual faculty). His application was forwarded by CSIR-IITR for consideration.

CSIR-IITR has fulfilled the requirements as defined under approved guidelines for Dual Faculty recognition viz. recommendations of a constituted committee, recommendations of the Dean, etc. The Chairman, Senate has approved the

above proposal. Details are placed at **Annexure A-3(b)** for information of the Senate.

**(iii) Recognition of Associate Professor as Professor of AcSIR on being elected as a Fellow of a National Academy**

AcSIR has received a request from CSIR-IGIB for recognition of following faculty (Associate Professor, AcSIR) as Professor of AcSIR on being their elected as Fellows of National Academies:

Dr. Souvik Maiti, Principal Scientist (The Indian Academy of Sciences)  
Dr. Shantanu Chowdhury, Principal Scientist (The Indian Academy of Sciences)  
Dr. Shantanu Sengupta, Principal Scientist (National Academy of Science, India)

As per the provisions contained under Clause 2(iii) of the Eligibility Criteria to be an AcSIR Faculty, a Principal Scientist of CSIR (Scientist E II), elected as a Fellow of a National Academy of Sciences/Engineering would be eligible for recognition as Professor of AcSIR. Since they met the requirement, approval was obtained of the Chairman, Senate. Details are placed at **Annexure A-3(c)** for information of the Senate.

**(i) Inclusion of Co-Guide for a student at CSIR-IGIB**

Approval of the Dean of Biological Sciences and has been received for inclusion of Dr. Arnab Mukhopadhyay, Staff Scientist of NII, New Delhi as a co-guide for the following student at CSIR-IGIB:

<b>Student Name</b>	<b>Registration No.</b>	<b>Guide</b>	<b>Co-Guide</b>
Ms. Latika Matai	10BB12A02026	Dr. Kausik Chakraborty, CSIR-IGIB	Dr. Arnab Mukhopadhyay, Staff Scientist, NII, New Delhi

Details are provided at **Annexure A-3(d)**.

## Item for Ratification

### Item No. 6 Student Related Issues

- (i) Change in faculty of study
- (ii) Change in host CSIR Lab
- (iii) Request for long leave

#### (i) Change in faculty of study

Requests have been received from the following students for change of faculty of study which have been accorded approval by the respective Deans for ratification by the Senate. The details are provided below:

Student's Name	CSIR Lab	Enrollment No.	Faculty change	
			From	To
Ms. Sandhaya Kumari	CSIR-IMMT	10PP15A36002	Physical Sciences	Engineering Sciences
Mr. Prashant Tyagi	CSIR-NPL	10PP15J32001	Physical Sciences	Engineering Sciences
Ms. Divya Dheer	CSIR-IIIM	10BB14A37001	Biological Sciences	Chemical Sciences

Members may kindly take a note of the change of faculty of the above students. Necessary approvals are enclosed as **Annexure A-4(a)**.

#### (ii) Change in host CSIR Lab

Requests have been received from the following students for change of host CSIR-Lab which have been accorded approval by the respective Deans and the Chairman, Senate. The details are provided below

Student's Name	Faculty of Study	Enrollment No.	Request for change	
Mr. Yogesh Abaso Thopate	Chem. Sc.	10CC11J33021	CSIR-IHBT	CSIR-CDRI
Mr. Nitin Hauserao Andhare	Chem. Sc.	10CC11A33010	CSIR-IHBT	CSIR-CDRI
Mr. Arun Sharma	Biol. Sc.	10BB12A51002	CSIR-IGIB	CSIR-IMTECH
Mr. Anurag Passi	Biol. Sc.	10BB12A51005	CSIR-IGIB	CSIR-IMTECH
Mr. Rakesh Kumar	Biol. Sc.	10BB15J51001	CSIR-IGIB	CSIR-IMTECH
Ms. Tina Sharma	Biol. Sc.	10MB14J51001	CSIR-IGIB	CSIR-IMTECH
Ms. Dikki Pedenla Bomzan	Biol. Sc.	10BB15A08002	CSIR - CFTRI	CSIR – CIMAP, RC, Bengaluru
Ms. Tejasvi Bhatia	Chem. Sc.	10CC12A22013	CSIR-IITR	CSIR-IICT
Mr. Raju Doddipalla	Chem. Sc.	10CC15J22011 (Sponsored)	CSIR-IITR	CSIR-IICT
Mr. Devi Prasad R	Chem. Sc.	10CC15A22018 (Sponsored)	CSIR-IITR	CSIR-IICT

Members may kindly take a note of the transfer of the above students. Necessary approvals are enclosed as **Annexure A-4(b)**.



**(iii) Request for long term leave**

Request for maternity leave from the following student has been recommended by the Dean of the faculty:

<b>Student Name</b>	<b>Enrollment No.</b>	<b>Lab</b>	<b>Period of Leave</b>
Ms. Padmavathi	10PP16J128001	CSIR-NGRI	16.08.2016 to 31.12.2016

Details are provided at **Annexure A-4(c)**.

## Item for Ratification

### Item No. 7 Admissions for the August 2016 session

- (i) PhD program in Science and Engineering
- (ii) Integrated MSc-PhD program in Nutrition Biology, 2016
- (iii) Integrated MSc-PhD program in Clinical Research and Health Informatics (AcSIR-PHFI)
- (iv) Post Graduate Diploma in Patinformatics
- (v) MSc in Food Technology

#### (i) PhD program in Science and Engineering

The admission for the PhD program in Science and Engineering for the academic session August 2016 has been completed at different participating CSIR laboratories.

A total of **367** students have been selected for PhD program (**309** students in Science and **58** students in Engineering) at different CSIR Labs. The Lab-wise list of selected candidates in the form of the Proceedings of the Selection Committee meeting for the PhD programs with proper approval from cluster Deans and the Chairman, Senate are being placed to the Senate for ratification at **Annexure A-5(a)**.

#### (ii) Integrated MSc-PhD program in Nutrition Biology

The Senate in its 10<sup>th</sup> meeting held on 4<sup>th</sup> April, 2014 approved the introduction of Integrated MSc-PhD program in Nutritional Biology at CSIR-CFTRI, to be funded by Department of Biotechnology (DBT). The proposal also received the approval of the Board of Governors (BoG) at its 6<sup>th</sup> meeting held on 28<sup>th</sup> August 2014 subject to certain clarification which was provided by the CSIR Lab. On 20<sup>th</sup> April 2015, Chairman, BoG accorded his approval for initiation of the program from August 2015 session.

Accordingly **10** students have been selected as per AcSIR guideline for the first batch starting in August 2015. The list of selected candidates in the form of the Proceedings of the Selection Committee meeting with proper approval from the Dean, Biological Sciences and the Chairman, Senate are being placed to the Senate for ratification at **Annexure A-5(b)**.

**(iii) Integrated MSc-PhD program in Clinical Research and Health Informatics (AcSIR-PHFI)**

The joint academic program of AcSIR and PHFI for Integrated MSc-PhD in *Health Informatics* and *Clinical Research* has formally started from the August 2013 session. The fourth batch of students for the programs have been selected this year and the session will start from August 2016.

Accordingly **10** and **17** students have been selected for the programs in *Health Informatics* and *Clinical Research*, respectively. The list of selected students, with due approval from the Dean, Biological Science and the Chairman, Senate are being placed at **Annexure A-5(c)** for ratification.

**(iv) Post Graduate Diploma in Patinformatics**

The proposal from CSIR-URDIP for introduction of a *Post Graduate Diploma in Patinformatics* received the approval of the Senate at its 9<sup>th</sup> meeting held on December 19, 2013 and subsequently of the Board at its 5<sup>th</sup> meeting held on March 24, 2014.

The second batch of **14** students have been selected at CSIR-URDIP for the August 2016 session. The list of selected students for the program, duly approved by the Associate Director (Academic) who is also officiating as the Dean, MIS is placed at **Annexure A-5(d)** for ratification.

**(v) MSc program in Food Technology at CSIR-CFTRI**

The Senate at its 15<sup>th</sup> meeting approved the proposal to initiate MSc Program in Food Technology at CSIR-CFTRI under AcSIR (which was being conducted in collaboration with University of Mysore at CSIR-CFTRI). The Senate approved an intake of 30 students under this program. Subsequently the proposal has received approval of the Chairperson, BoG. The same will be reported at the next meeting of the BoG.

The first batch of **30** students have been selected at CSIR-CFTRI for the August 2016 session. The list of selected students for the program, duly approved by the Associate Dean, Biological Sciences is placed at **Annexure A-5(e)** for ratification.

## Item for Ratification

### Item No. 8      **M.Tech results (2014-16 batch) for the award of the Degree**

The sixth batch of 2+3 year fulltime residential Integrated MTech-PhD program of AcSIR took admission in 2014. Out of a total **57** students who had taken admission, **36** have successfully completed the MTech part of the program and are graduating in 2016. Result of **13** students from CSIR-CRRI (3 students), RE program of CSIR-SERC (7 students), CSIR-CSIO (1 student) and CSIR-NPL (2 students) will be placed to the Senate when complete information is available. Eight students have resigned from the program before completion. The programs were offered in the following areas:

- Building Engineering and Disaster Mitigation (CSIR-CBRI)
- Advanced Semiconductor Electronics (CSIR-CEERI)
- High Power Microwave Devices and System Engineering (CSIR-CEERI)
- Advanced Electronic Systems (CSIR-CEERI)
- Transportation Engineering (CSIR-CRRI)
- Advanced Instrumentation Engineering (CSIR-CSIO)
- Materials and Metallurgical Engineering (CSIR-NML)
- Advanced Materials Physics and Engineering (CSIR-NPL)
- Engineering of Structures (CSIR-SERC)
- Renewable Engineering (CSIR-SERC)

The results, enclosed as **Annexure A-6**, of the 36 students have received approval of the Associate Dean of Engineering Sciences and are being placed to the Senate for ratification. The MTech degree is to be conferred to the successful students at the next Convocation of the Academy.

## Item for Ratification

### Item No. 9      **PhD (Science and Engineering) results for the award of the Degree**

The PhD program of AcSIR has formally begun from the January 2011 session across all the CSIR laboratories. Currently, the program has around 3500 PhD students enrolled/registered across the CSIR Labs in the five faculties of study.

Since the last (sixteenth) meeting of the Senate, AcSIR held on 6<sup>th</sup> May, 2016, **80** students have completed all the academic requirements for the award of PhD degree including successful completion of the Viva voce examination. The Chairperson, Senate has already approved the award of the degree. The Senate has to finally ratify the results, as approved by the Chairman, Senate, of all 80 students.

The reports of the viva-voce examination committee of all the **80** students along with the approval of the Chairman, Senate are being placed to the Senate for ratification of the results for the award of the formal degrees at **Annexure A-7**.

## Item for Ratification

### Item No. 10      **Post Graduate Diploma in Patinformatics (2015 batch) for the award of the Degree**

The second batch of **6 students** in Post Graduate Diploma in Patinformatics conducted by CSIR-URDIP has completed all the academic requirements for the award of the Diploma to the successful candidates.

The results have been duly endorsed by the Dean of the concerned faculty and. The same is being placed for ratification of the results for the award of the formal degrees at **Annexure A-8**.

## Item for Ratification

### Item No. 11      **Integrated MSc-PhD program (2014-16 batch) for the award of the Degree**

The second batch of students of joint AcSIR-PHFI Integrated MSc-PhD program in Clinical Research and Health Informatics of the 2014-16 session (**6 in Clinical Research and 5 in Health Informatics**) have completed their academic requirements for award of the MSc degrees.

The results of the **11 students** have been duly endorsed by the Dean/Associate Dean of Biological Sciences. The same is being placed for ratification for the award of the formal degrees at **Annexure A-9**.

## Item for Ratification

### Item No. 12      **Course Related Items: New and Modifications**

A few laboratories have proposed new courses for introduction from the August 2016 session under different faculties of studies and also proposed some modifications in courses. All the proposals have been recommended by concerned Deans (or Associate Deans) for approval/ratification of the Senate.

***New courses:***

*Biological Sciences:*

CSIR-CFTRI

CSIR-NIIST

***Modified Courses:***

*Biological Sciences:*

CSIR-CSMCRI

CSIR-IITR

*Physical Sciences:*

CSIR-CECRI: Modelling and Simulation in Electrochemistry

The details of the new and modified courses are furnished in **Annexure A-10** for ratification of the Senate. On receipt of approval of the Senate, the course booklet for each of the faculty will be updated appropriately and uploaded on AcSIR website.



## Item for Discussion and Approval

### Item No. 13 Academic Issues related to PhD program

- (i) Approval process for Comprehensive Committee: Suggested modification
- (ii) PhD Sponsored candidates: Difference in the guidelines for comprehensive examination
- (iii) Issue regarding the AcSIR Ph. D. certificates

#### (i) Approval process for Comprehensive Exam Committee: Suggested modification

**Background:** The proposal has been received from Dr. Shantanu Sengupta, CSIR-IGIB & Associate Dean, Biological Sciences. Comprehensive Board consists of Doctoral Advisory Committee (DAC) of the PhD student and the Director of the host CSIR Lab or his nominee. As per the Ordinance the Comprehensive Board should get recommendation from the Dean of the faculty of study and approval of the Chairperson, Senate. Dr. Shantanu Sengupta, Associate Dean Biological Sciences has recently pointed out that asking for separate approval for Comprehensive Board is a redundant step since the DAC is already an approved body by the same competent authorities and inclusion of the Lab Director or his nominee is as per Ordinance which also do not require further approval.

**Proposal:** Therefore it is proposed that this redundant step may be removed and the Clause 7.7.2 (b)(iii) of the AcSIR Ordinance is appropriately amended as suggested below:

Original Clause 7.7.2 (b)(iii)	Proposed amendment to Clause 7.7.2 (b)(iii)
“Based on the proposal of the supervisor(s), the Comprehensive examination board shall be formed & approved for each student by the Dean with subsequent ratification by the Senate Chairman. Any observation from the Dean needs to come within 3 days from the day approval was sought for after which the proposed Comprehensive Examination Board will be deemed as approved”	“The Comprehensive Board shall be approved by the Director of the Laboratory and subsequently informed to the Dean of the concerned faculty and the AcSIR Offices for updating records.”

(ii) **PhD Sponsored candidates: Difference in the guidelines for comprehensive examination**

**Background:** This item has been proposed by Proposed by Prof. Arvind Sinha, Coordinator, CSIR-NML. Originally students for both Regular PhD and Sponsored PhD programs were mandatorily required to complete two 400 level courses (i.e., Review Article and Project Proposal) before the Comprehensive exam leading to PhD registration. Later a Committee which revised the guidelines for both the programs in Engineering Sciences under the Chairmanship of Prof. SK Bhattacharyya suggested that the 400 level courses mentioned above can be submitted any time after the Comprehensive Examination excepting for PhD for the Sponsored candidates. The rationale for making this exception in case of Sponsored PhD programs was to ensure that mandatory requirement of courses are completed during their period of residence at the concerned CSIR Lab.

Prof. Arvind Sinha of CSIR-NML proposed that similar rule may be followed for Sponsored candidates as well when the sponsoring industry is locally present and have collaborations beyond only sponsored candidates for PhD program. He argues that it would help them *“more when they took up a review and project proposal topic complimentary to their research problem and it also enables them to think deeper and wider on their problem”*. He also mentioned that for the Societal projects the sponsored candidates work on Corporate Social Responsibility (CSR) projects involving field work assigned from industry which takes a little longer time.

**Proposal:** It is proposed that the Senate may consider the argument put forward by Prof. Sinha and, if appropriate, allow local industry sponsored PhD candidates to complete the 400 level courses prior to Open Colloquium. This may be considered on a case to case basis with initial proposals being submitted to the Dean of respective faculty for recommendation.

## Item for Discussion and Approval

### Item No. 14      **Request to reconsider the case of PhD submission of Mr. Akkiraju Vyasulu at CSIR-NGRI**

**Background:** This item has been proposed by Dr. Prantik Mandal, Coordinator, CSIR-NGRI. The issue relates to a specific case of Mr. Vyasulu Akkiraju of CSIR-NGRI (Enrolment # 10PP11A28002) of the August 2011 batch. He had resigned from CSIR-NGRI to join another organization in December 2014 and have been paying tuition fees for PhD, without any intimation to AcSIR offices. Before resignation, only one DAC meeting was conducted. As informed by the supervisor, he had completed all the mandatory coursework, the data acquisition, analysis and interpretation towards his Ph.D. work and had prepared a draft write-up of his Ph.D. thesis. All other DAC meetings (II, III & IV) and Comprehensives were conducted after his resignation in December 2014.

The Dean had rejected his thesis submission on the grounds that the student has violated the guidelines of AcSIR much beyond the acceptable level. As requested by the Supervisor the case was discussed at the 16<sup>th</sup> Senate held on 6<sup>th</sup> May, 2015 and the Senate “...*observed that the student completely violated AcSIR guideline related to pursuance of his academic program. On that note, the Senate did not approve his appeal*”.

The Acting Director, AcSIR has once again received an appeal from the Coordinator of CSIR-NGRI as per request of the Supervisor of Mr. Vyasulu Akkiraju, Dr. Sukanto Roy, for favorable reconsideration of the case at Senate.

While the student violated the AcSIR guidelines as determined by the Senate in its earlier meeting (16<sup>th</sup>), it is also to be noted that it was primarily the responsibility of his supervisor not to allow him to complete subsequent DAC meetings (II, III, IV) and the Comprehensive Exam after his resignation in December 2014. In addition, the Lab Coordinator should not have allowed these meetings to have taken place if he had information regarding the student's resignation.

**Proposal:** The Senate may re-examine the case considering the entire episode leading to the current situation. It is however, important that any modification suggested by Senate is consistent and logical with respect to its earlier determination in the last Senate meeting.

Also, it is requested that Senate may consider not revisiting an issue considered by it earlier unless a compelling circumstances requires further consideration.

Relevant documents are placed at **Annexure A-11**.

## Item for Discussion and Approval

### Item No. 15      **An update on UGC's recommendation for award of MPhil/PhD Degree, 2016: implication to the procedure followed by AcSIR**

**Background:** The Senate at its 12<sup>th</sup> meeting held on 17<sup>th</sup> November, 2014, agreed to adopt the UGC guidelines for 'Minimum Standards and Procedure for Award of M.Phil/PhD Degree', 2009 for maintenance of academic standards of the AcSIR and ensure appropriate certification of compliance by AcSIR so that its graduating students do not confront any difficulty for academic job prospects in Indian Universities.

In suppression of the previous guidelines of 2009, UGC has recently issued revised guidelines as "UGC (Minimum Standards and Procedure for Award of MPhil/PhD Degrees) Regulations, 2016".

**Proposal:** As per the revised guidelines, there are some salient modification suggested in the process. The major items along with the procedure currently followed at AcSIR is being presented in a tabular form for consideration of the Senate:

Sl. No.	Modifications as per UGC Regulation, 2016	Current rule at AcSIR	Proposed Changes
i)	Minimum duration for PhD: <b>3 years</b> Maximum duration for PhD: <b>6 years</b> , extension beyond max period <u>will be governed by the relevant clauses in the Statute/ Ordinance of individual Institution</u>	Minimum duration for PhD: <b>2 years</b> Maximum duration for PhD: <b>5 years</b>	Accept modification by UGC
ii)	Relaxation in duration for <u>women candidates and Persons with Disability</u> (more than 40%): <b>2 years</b> Also, the women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of PhD for up to 240 days.	Currently no specific guideline has been formulated for persons with disability and Maternity leave is sanctioned on case to basis.	Accept modification by UGC
iii)	<u>University shall maintain the list of all the PhD registered students on its website on year-wise basis having details of the name of the registered candidate, topic of his/her research, name of his/her supervisor/co-supervisor, date of enrolment/registration.</u>	AcSIR website contains the list of students who have completed their PhD degree but not no information is loaded for the current students.	Accept modification by UGC
iv)	<u>Only a full time regular teacher of the concerned University/Institution can act as a supervisor. External</u>	AcSIR follows the same rule for primary guide as proposed by UGC.	Hence, for complete compliance of AcSIR with modified UGC guideline, it

Sl. No.	Modifications as per UGC Regulation, 2016	Current rule at AcSIR	Proposed Changes
	<u>supervisors are not allowed as Primary Guide</u> Co-Supervisor can be allowed in interdisciplinary areas from other departments of the same institute or from other related institutions with the approval of the Research Advisory Committee.	Co-supervisors are proposed based on specific requirement for contribution in the proposed study.	would be appropriate to ask for justification for proposing co-supervisor(s) for a PhD candidate if required
v)	Ph.D. course work: minimum 08 credits; maximum 16 credits.	Minimum 20 credits; maximum credits not defined.	Current rule of AcSIR is only consistent with maintaining high standards. Therefore, the proposed modification does not seem necessary to be adopted.
vi)	<u>A minimum of four credits for one or more courses on Research Methodology covering areas such as quantitative methods, computer applications, research ethics and review of published research in the relevant field, training, field work, etc.</u> Other courses shall be advanced level courses preparing the students for PhD degree.	Usually Research Methodology: 1 credit Review Article: 2 credits Societal program involving field work etc: 2 credits.	AcSIR, in effect, is compliant with the suggested modification by UGC.
vii)	Department prescribe the course(s) to student based on the recommendations of the Research Advisory Committee	Courses to be selected in consultation with DAC. In absence of DAC, proposed PhD Supervisor to advice on the courses to be taken and inform the Coordinator. Upon formation, the DAC need to review and ratify this choice of courses.	AcSIR is compliant with the suggested modification by UGC
viii)	<u>To complete all course work during the initial one or two semesters.</u>	Courses related to classroom teaching (12 credits) are completed within 2 semesters. 400 level courses, i.e., Review Article, Project Proposal and Societal program) are allowed to be completed before Open Colloquium to ensure better quality of assignments given with longer exposure to research environment.	Current rule of AcSIR is only consistent with maintaining high standards. Therefore, the proposed modification does not seem necessary to be adopted.
ix)	<u>To appear before the DAC once in six months</u> to make a presentation of the progress of his/her work for evaluation and further guidance. The six monthly progress reports shall be submitted by the DAC to the	Current rule of AcSIR recommends conducting DAC meetings once per year.	Presentation of the work before DAC once in six month is specific recommendation by UGC. Therefore it is proposed to be adopted as suggested.

Sl. No.	Modifications as per UGC Regulation, 2016	Current rule at AcSIR	Proposed Changes
	Institution/College with a copy to the research scholar.		
x)	<u>In case the progress of the research scholar is unsatisfactory, the DAC shall record the reasons and suggest corrective measures. If the research scholar fails to implement these corrective measures, the DAC may recommend to the Institution with specific reasons for cancellation of the registration of the research scholar.</u>	Candidature of student is cancelled if he/she fails to clear the Comprehensive Exam in two attempts	It is proposed to comply with the modifications as suggested by UGC.
xi) *	<u>Ph.D. scholars must publish at least one (1) research paper in refereed journal and make two paper presentations in conferences/seminars before the submission of the thesis for adjudication, and produce evidence for the same in the form of presentation certificates and/or reprints before submission of thesis.</u>	Publication/acceptance of minimum one paper in peer reviewed journal before submission of thesis.	The modification suggested by UGC enhances the quality of requirement from the PhD students. Hence, may be adhered to.
xii)	<u>The Ph.D. thesis submitted by a research scholar shall be evaluated by his/her Research Supervisor and at least two external examiners, who are not in employment of the Institution/College, of whom one examiner may be from outside the country</u>	Examined only by two external examiners (foreign examiner is optional). However, unlike many Universities, Supervisor of the PhD student is not included as one of the examiners.	It is proposed to comply with the modifications as suggested by UGC.
xiii)	<u>The viva-voce examination based on the critiques given in the evaluation report to be conducted by the Research Supervisor and at least one of the two external examiners, and shall be open to be attended by Members of the Research Advisory Committee, all faculty members of the Department, other research scholars and other interested experts/researchers.</u>	Currently AcSIR follows the same rule as suggested by UGC's modified guideline, 2016. However, AcSIR rule does not explicitly mention the viva voce examination to be an open endeavor.	It is proposed to comply with the modifications as suggested by UGC.
xiv)	<u>The public viva-voce be conducted only if the evaluation report(s) of the external examiner(s) on the dissertation/thesis is/are satisfactory and include a specific recommendation for conducting the viva-voce examination. If the evaluation report of one of the evaluation reports of the external examiner in case of Ph.D. thesis, is unsatisfactory and does not recommend viva-voce, the Institution shall send the dissertation/ thesis to</u>	Current rule of AcSIR requires satisfactory response to the questions raised by the external examiners including revision of the thesis, if asked for. The student is declared ineligible for award of the degree is he/she does not clear the viva voce exam within two attempts.	It is proposed that the Dean of the relevant faculty of study, when examining the two external reports will determine whether to send the thesis to a third examiner in case revision is asked for by one of the original examiners based on the merit of the case. This is proposed keeping in view the sanctity of the academic process and

Sl. No.	Modifications as per UGC Regulation, 2016	Current rule at AcSIR	Proposed Changes
	<u>another external examiner out of the approved panel of examiners and the viva-voce examination shall be held only if the report of the latest examiner is satisfactory. If the report of the latest examiner is also unsatisfactory, the dissertation/ thesis shall be rejected and the research scholar shall be declared ineligible for the award of the degree.</u>		save the time that would be lost by sending the disputed thesis to an alternative examiner. Finally, the consent of three examiners (including the Supervisor of the student) should be mandatory for conducting the viva voce examination.
xv)	Part-time PhD will be allowed provided all the conditions mentioned in the extant PhD Regulations are met.	In AcSIR as such there is no provision for a part time PhD yet. However, those PhD students who have completed their research work and all the course work and research study's requirements are allowed, on request to complete writing the PhD thesis as a part time student.	It is important that the part time PhD student is more clearly defined in AcSIR rules and regulations. This has become particularly important since questions have been raised from some quarters that how the candidates enrolled for IMP program can be a full time student while they have been recruited as scientist in CSIR Labs. Incidentally, UGC has promulgated a rule in 2016 allowing consideration of "period of active service spent on pursuing Research Degree ... simultaneously without taking any kind of leave may be counted as teaching experience for the purpose of direct recruitment /promotion to the post of Associate Professor and above". <u>It is proposed that Senate deliberate on this contentious issue and make a decision regarding part time PhD in AcSIR</u>
xvi)	Following the successful completion of the evaluation process and <u>before the announcement of the award of the Ph.D. degree, the Institution concerned shall submit an electronic copy of the Ph. D. thesis to the INFLIBNET, for hosting the same so as to make it accessible to all Institutions/Colleges.</u>	Senate has already approved submission of completed PhD theses to INFLIBNET. The necessary steps is being taken for initiation of the process.  However, the senate's recommendation (at the 12 <sup>th</sup> meeting) for a period of embargo, if requested,	It is proposed to comply with the modifications as suggested by UGC. Senate is requested to revisit the issue of period of embargo, if needed, with proper justification.

Sl. No.	Modifications as per UGC Regulation, 2016	Current rule at AcSIR	Proposed Changes
		before theses can be uploaded is not part of the UGC guideline.	
xvii)	Prior to the actual award of the degree, <u>the degree-awarding Institution shall issue a provisional Certificate to the effect that the Degree has been awarded in accordance with the provisions of these UGC Regulations, 2016.</u>	Senate at 16 <sup>th</sup> meeting has approved inclusion of such a the disclaimer based on UGC Regulation, 2009.	The disclaimer would now be related to UGC's latest modification recommended in 2016.

\* With respect to Item (xi) above, the Senate is requested to consider whether Patents can be considered equivalent to a publication in peer reviewed journal in view of the "industrial research' mandate of many of the CSIR Labs where the research of the students are being patented first instead of being published, due to the nature of the work.

The latest "UGC (Minimum Standards and Procedure for Award of M.PHIL./PH.D Degrees) Regulations, 2016" is being placed at **Annexure A-12**.



## Items for Discussion and Approval

### Item No. 16

#### Issues related to PhD (Engg.) program

- (i) Guidelines for PhD (Engg.) Programs: Some More Issues
- (ii) Minor Inconsistencies in Guidelines for PhD (Engg.) Programs

#### (i) Guidelines for PhD (Engg.) Programs: Some More Issues

**Background:** This item has been proposed by Prof. Raj Singh, Member of the Senate, CSIR-CEERI. Certain observations have been made related to the academic requirements of sponsored candidates in PhD programs. Also, he has pointed out about the status of the CSIR scientists who are pursuing PhD program in AcSIR, both in Science and Engineering Science.

**Proposal:** Details of the proposal is provided in **Annexure A-13(a)** for Senate to deliberate on.

#### (ii) Minor Inconsistencies in Guidelines for PhD (Engg.) Programs

**Background:** Prof. Raj Singh, Senate Member from CSIR-CEERI has pointed out certain discrepancy in the eligibility criteria for admission to the PhD (Engineering) program, both under Regular and Sponsored category, formulated by a Committee under the Chairpersonship of Prof. SK Bhattacharyya and adopted by the AcSIR Senate.

**Proposal:** Details of the proposal is provided in **Annexure A-13(b)** for Senate to deliberate on.

## Items for Discussion and Approval

### Item No. 17      **Proposal on part-time MTech and part-time PhD in Engineering**

**Background:** A preliminary proposal has been submitted by Prof. Raj Singh for consideration of taking students as Part time MTech and PhD in Engineering Sciences. He mentioned that his proposal is primarily targeted to accommodate CSIR employees and Project Fellows. If a positive decision is made, the process may also be adopted for enrolling part time students for PhD (Science).

So far AcSIR has not encouraged enrollment of students on part time basis so that the academic program is not diluted. While CSIR Laboratories allow its Scientists and Technical Officers for PhD, AcSIR so far has allowed only the CSIR Scientists for enrollment for PhD degree on stringent criteria [Ordinance o. 3.6.2(c)]. It would however be important to resolve the technical issue of enrolling CSIR scientists as a regular PhD student while they remain a full time employee of CSIR.

It is relevant in this context to mention a recent statement of UGC dated 1<sup>st</sup> March 2016 as under:

*"the period of active service spent on pursuing Research Degree i.e. for acquiring Ph.D. degree simultaneously without taking any kind of leave may be counted as teaching experience for the purpose of direct recruitment/promotion to the post of Associate Professor and above."*

**Proposal:** In this context the Senate may like to deliberate and discuss the proposal put forward by Prof. Raj Singh. Details of this proposal is furnished at **Annexure A-14.**

## Items for Discussion and Approval

### Item No. 18      **PhD Thesis submission related guideline: follow up from last Senate meeting**

**Background:** The Senate at its 16<sup>th</sup> meeting had suggested that the draft guideline formulated by Dr. Ramanuj Narayan (Associate Dean, Chemical Sciences) be circulated among all the Senate members for their opinion and a final decision will be taken by the Chairman, Senate based on the inputs of the Senators.

The draft guideline was circulated among the members on July 21, 2016. Comments of only a few members of the Senate have been received.

**Proposal:** The comments from the members have been compiled and are being placed for review and approval of the Senate at **Annexure A-15(a) & (b)**.

## Item for Discussion & Approval

### Item No. 19      **Issuance of Duplicate Certificate on request: Need to formulate the procedure**

**Background:** AcSIR need to have a policy and procedure for issuance of Duplicate Certificates to students/alumni on request based on convincing reasons (e.g., damaged, lost or stolen etc.).

**Proposal:** A draft procedure has been furnished at **Annexure A-16** for observation of the Senate members and approval as appropriate.

## Item for Discussion & Approval

### Item No. 20 Introduction of Diploma/ PG Diploma related to Skill India Program

#### (i) **New Proposals**

- a) Diploma in Aquaculture Technology at CSIR- NIO

#### (ii) **Proposals under Consideration**

- a) Diploma in “Precision Measurements and Quality Control” at CSIR-NPL
- b) Post graduate Diploma (PGD) program at CSIR-CMERI
  - Advance Manufacturing Technology (PGDAMT)
  - Robotics (PGDR)
  - Industrial Maintenance Engineering (PGDIME)

#### (i) **New Proposal**

##### a) **Diploma in Aquaculture Technology at CSIR- NIO**

**Background:** A proposal has been received from CSIR-NIO to initiate a Diploma in Aquaculture Technology under the skill development program of Govt. of India aimed at providing employment opportunities for youth specifically for target group (12th Pass/Fail). Towards this endeavor, CSIR-NIO has proposed a Diploma program along with explanation on the scope, need for the program and the course content, with appropriate recommendation of the Dean, Physical Sciences.

**Proposal:** This program may be considered under the provision “Diploma in areas offering new knowledge” of the AcSIR Statutes 13. Due procedure needs to be followed for initiating such a program at AcSIR. The following issues may be discussed:

1. Admission procedure to be followed
2. Sharing of the course fee charged with AcSIR

Details of the proposed Diploma program is provided at **Annexure A-17(a)** for consideration of the Senate.

#### (ii) **Proposals under Consideration**

##### a) **Diploma in “Precision Measurements and Quality Control” at CSIR-NPL**

**Background:** CSIR-NPL had proposed introduction of a one year Diploma program in ‘**Precision Measurements & Quality Control**’. The Senate had accorded in-principle approval and sought clarification on a few issues as (i) the “driving force” of the course (ii) to identify specific areas of employment (iii) relevance and sustainability of the course (iv) minimum eligibility criteria under

'Skill India' campaign (iv) compliance with respect to the Reservation policy and (v) on fee sharing formula.

CSIR-NPL had provided clarification as per recommendation of the Senate. The same was circulated among the members of the Senate on July 15, 2016. Only one member has responded in affirmative.

**Proposal:** Due to lack of response from the members, the clarification provided by CSIR-NPL along with the revised proposal is being placed at **Annexure 17(b)** for consideration and approval of the Senate. The Senate is also requested to accord approval for initiation of the program if the clarification is found to be appropriate.

**b) Post graduate diploma program at CSIR-CMERI in**

- Advance Manufacturing Technology (PGDAMT)
- Robotics (PGDR)
- Industrial Maintenance Engineering (PGDIME)

**Background:** CSIR-CMERI had also proposed three Post Graduate Diploma Programs in the above mentioned areas to be initiated from the August 2016 session. The Associate Dean, Engineering Sciences have reviewed the course content and accorded her approval.

Following the recommendation of the Senate at its 16<sup>th</sup> meeting for the CSIR-NPL Diploma programs, similar clarification was sought from CSIR-CMERI. The clarification provided by CSIR-CMERI was circulated among the members of the Senate on July 15, 2016. A few members have responded. On reviewing the comments, the Chairperson, Senate has also accorded his in-principle approval for initiation of the program.

**Proposal:** The clarification provided by CSIR-CMERI along with the comments received from the members of the Senate and the original proposals are being placed at **Annexure 17(c)** for consideration and approval of the Senate. The Senate is also requested to accord approval for initiation of the program if the clarification is found to be appropriate.

## Item for Discussion & Approval

### Item No. 21      **Complaints received from CSIR-4PI student issue**

**Background:** AcSIR received complaints dated 27<sup>th</sup> June 2016 from four AcSIR girl PhD students of CSIR 4-PI against the AcSIR Coordinator. The allegations leveled were withholding of results of Academic Session, gender discrimination, creating difficulties in selection of a guide and formation of DAC, deliberate discrimination/victimization being girl students, denied registration at the time of joining, non-availability of facilities, serious lack of academic supports, etc.

In addition, all the above four students have placed their grievances on the portal of Centralized Public Grievance Redress and Monitoring System (CPGRAM), which CSIR has forwarded to AcSIR.

Current Plan of Action: After preliminary perusal of all the four complaints AcSIR Coordinator at CSIR-4PI was requested to submit his comments in each case. The comments have since been received, which are being examined by AcSIR. So far as grievances placed on CPGRAMS are concerned, the Head, CSIR-4PI has been requested on 27.07.2016 to take up these grievances for redressal.

**Proposal:** The Acting Director, AcSIR has directed to place the matter to Senate its knowledge and necessary discussion as appropriate.

## Item for Discussion & Approval

### Item No. 22      **To fix tenure of AcSIR Lab Coordinators**

**Background:** A proposal has been received from Prof. KS Krishna, Dean, Physical Sciences which reads as:

“It has been observed that unlike any other positions in AcSIR (e.g. Deans, Associate Deans, Senate members, Board members etc.) the Lab Coordinators do not have a fixed tenure. I think a certain time period is necessary to consider for Lab Coordinators too and this may add good working ambience in laboratories”.

The proposal is quite pertinent and necessary to be considered by Senate. At present, the tenure of AcSIR Lab Coordinators is arbitrary and usually a change occurs on superannuation of the responsible CSIR scientist and on rare occasions as desired by the Lab Director based on local logistics.

**Proposal:** Consistent with the engagement of Deans and Associate Deans, AcSIR Lab Coordinators may also be initially engaged for three years by AcSIR, on recommendation of the Director of the CSIR Lab. The tenure may be renewed for another term by AcSIR based on his/her performance and consultation with the Director of the CSIR Lab.