



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली
(शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित)
सैक्टर-81, नॉलेजसिटी, पो. ओ. मनौली, एस. ए. एस. नगर, मोहाली, पंजाब - 140306
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI
(Estd. By Ministry of Education, Govt. of India)
Sector – 81, Knowledge City, P.O. Manauli, S.A.S. Nagar, Mohali, Punjab -140 306

Minutes for the 45th meeting of the Board of Governors of IISER Mohali held on September 07, 2021 at 3.00 P.M. by Video Conference.

The following members were present in the meeting:

1	Prof. Ajay Sood, Chairperson, BoG, IISER Mohali and BoG, IISER Bhopal	Chairperson
2	Prof. Govindan Rangarajan, Director, IISc Bangalore	Member
3	Prof. Rajeev Ahuja, IIT Ropar	Member
4	Dr. Jatinder Kaur Arora, Executive Director, PSCST and Ms. Ajit Dua, CEO, PBTI (Nominees of the Chief Secretary, Govt. of Punjab)	Member
5	Sh. Vinamra Mishra, Director, Autonomous Bodies Division, O/O Development Commissioner, MSME on behalf of the Secretary, MSME	Member
6	Sh. Dhiraj Ranjan, Under Secretary, MoE On behalf of the Additional Secretary (TE), Ministry of Education	Member
7	Sh. Udaya Kiran K.V., Under Secretary (Finance), MoE on behalf of the Joint Secretary & Financial Adviser, MoE	Member
8	Prof. J. Gowrishankar, Director, IISER Mohali	Member
9	Prof. Sanjay Mandal, Professor Department of Chemical Sciences, IISER Mohali (Senate Nominee)	Member
10	Prof. Chanchal Kumar, Professor Department of Mathematical Sciences, IISER Mohali (Senate Nominee)	Member
11	Prof. Sudeshna Sinha, Deputy Director, IISER Mohali	Special Invitee
12	Prof. Jagdeep Singh, Registrar, IISER Mohali	Secretary

The following members could not attend the meeting due to prior commitments:

1	The Secretary, Department of Biotechnology, Govt. of India	Member
2	Dr. Madhu Dikshit, National Professor, (Former Director, CSIR-Central Drug Research Institute), Translational Health Science & Technology Institute Faridabad	Member

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B.O.G.21.45.01	Welcome Remarks by the Director and Director's Report
	<p>The Director welcomed the Chairperson and members of the BoG to its 45th meeting. He especially welcomed Prof. Rajeev Ahuja, Director, IIT Ropar, newly appointed BoG member who was attending his 1st meeting of the BoG, and mentioned that the Institute would certainly gain from his immense academic and administrative experience.</p> <p>He also thanked the outgoing Member of BoG, Prof. Sarit Das, former Director of IIT Ropar for his kind advice and guidance for shaping the policy matters of the Institute during his tenure.</p> <p>The Director then presented the progress of the Institute on both research and teaching activities for the period April to August 2021 in the form of a brief presentation. Copy of the slides annexed.</p> <p style="text-align: right;">Page Nos.:18 to 37</p>
B.O.G.21.45.02	Opening Remarks by the Chairperson
	<p>The Chairperson welcomed all members to 45th meeting of the BoG. He appreciated the achievements of the Institute during the period affected by Covid-19 pandemic. He expressed happiness that the TBI of IISER Mohali has become fully functional and its fast growing activities.</p> <p>He requested the Ministry officials to convey the BoG's concern over the financial cut in Institute's grant-in-aid and he mentioned that unless the Ministry provides more grant to the Institute, the research and functioning of the Institute would be seriously affected.</p>
B.O.G.21.45.03	Confirmation of Draft Minutes of the 44th meeting of the BOG, IISER Mohali held on June 22, 2021
	<p>Draft Minutes of the 44th meeting of the BoG held on 22.06.2021 were circulated on 28.06.2021. No comments have been received.</p> <p>For confirmation please.</p> <p>Comments of IFD: May be confirmed.</p> <p>Comments of Bureau: May be confirmed.</p> <p style="text-align: right;"><i>(Annexure-I, Page Nos:14 to 52 of the Agenda)</i></p>
Decision	Confirmed with no change.
B.O.G.21.45.04	Action taken report on the draft minutes of the 44th meeting of the BOG held on June 22, 2021

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	<p>The Action Taken Report on the items requiring follow-up action on the decisions of the 44th meeting of the BoG held on June 22, 2021 is as follows, and placed for the consideration of the Board of Governors.</p> <table border="1"> <thead> <tr> <th>Item No.</th><th>Item name</th><th>Action Taken</th></tr> </thead> <tbody> <tr> <td>B.O.G.21.44.01</td><td>Welcome Remarks by the Director and Director's Report</td><td>-</td></tr> <tr> <td>B.O.G.21.44.02</td><td>Opening Remarks by the Chairperson.</td><td>-</td></tr> <tr> <td>B.O.G.21.44.03</td><td>Confirmation of Draft Minutes of the 43rd Meeting of the BOG, IISER Mohali held on March 30, 2021</td><td>Confirmed.</td></tr> <tr> <td>B.O.G.21.44.04</td><td>Action taken report on the draft minutes of the 43rd Meeting of the BOG held on March 30, 2021</td><td>Noted.</td></tr> <tr> <td colspan="2">For Consideration and Approval:</td><td></td></tr> <tr> <td>B.O.G.21.44.05</td><td>Item arising from the 36th meeting of the Finance Committee held on 22.06.2021.</td><td></td></tr> <tr> <td>F.C.21.36.07</td><td>Extension of tenure and fellowship for Int. Ph.D and Ph.D students and Institute's Post Doctoral Fellows due to COVID-19: Decision: Approved by the BoG.</td><td>Decision of MoE is awaited.</td></tr> <tr> <td>F.C.21.36.08</td><td>Use of IRG to cover the shortfall in Grant-in-aid. Decision: Approved by the BoG.</td><td>Decision implemented.</td></tr> <tr> <td>F.C.21.36.09</td><td>Re- activation of suspended credit facility with Fedex courier company. Decision: Approved by the BoG.</td><td>Under process</td></tr> <tr> <td>B.O.G.21.44.06</td><td>Items arising from the 46th Senate meeting held on 11.05.2021.</td><td></td></tr> <tr> <td>Senate 21.46.04</td><td>Students fulfilling the requirements of BS-MS Degree: Decision: Approved.</td><td>Notification issued.</td></tr> <tr> <td>Senate 21.46.05</td><td>Students fulfilling the requirements of BS Degree: Decision: Approved.</td><td>Notification issued.</td></tr> <tr> <td>Senate 21.46.07</td><td>Students fulfilling the requirements of PhD Degree: Decision: Approved.</td><td>Notification issued.</td></tr> <tr> <td>Senate 21.46.08</td><td>Students fulfilling the requirements of Int. PhD Degree: Decision: Approved.</td><td>Notification issued.</td></tr> <tr> <td>Senate 21.46.09</td><td>Students fulfilling the requirements of MS Degree: Decision: Approved.</td><td>Notification issued.</td></tr> <tr> <td>B.O.G.21.44.07</td><td>Items arising from the 47th Senate meeting held on 18.06.2021</td><td>Notification issued.</td></tr> <tr> <td>B.O.G.21.44.08</td><td>Proposal regarding books purchased by faculty members of IISER Mohali using their CPDA and extra-mural funds: Decision: Approved</td><td>Implemented</td></tr> <tr> <td>B.O.G.21.44.09</td><td>Consideration of the appeal of Ms. Pallavi, Regn. No.PH15015</td><td>BoG resolution was</td></tr> </tbody> </table>		Item No.	Item name	Action Taken	B.O.G.21.44.01	Welcome Remarks by the Director and Director's Report	-	B.O.G.21.44.02	Opening Remarks by the Chairperson.	-	B.O.G.21.44.03	Confirmation of Draft Minutes of the 43 rd Meeting of the BOG, IISER Mohali held on March 30, 2021	Confirmed.	B.O.G.21.44.04	Action taken report on the draft minutes of the 43 rd Meeting of the BOG held on March 30, 2021	Noted.	For Consideration and Approval:			B.O.G.21.44.05	Item arising from the 36 th meeting of the Finance Committee held on 22.06.2021.		F.C.21.36.07	Extension of tenure and fellowship for Int. Ph.D and Ph.D students and Institute's Post Doctoral Fellows due to COVID-19: Decision: Approved by the BoG.	Decision of MoE is awaited.	F.C.21.36.08	Use of IRG to cover the shortfall in Grant-in-aid. Decision: Approved by the BoG.	Decision implemented.	F.C.21.36.09	Re- activation of suspended credit facility with Fedex courier company. Decision: Approved by the BoG.	Under process	B.O.G.21.44.06	Items arising from the 46 th Senate meeting held on 11.05.2021.		Senate 21.46.04	Students fulfilling the requirements of BS-MS Degree: Decision: Approved.	Notification issued.	Senate 21.46.05	Students fulfilling the requirements of BS Degree: Decision: Approved.	Notification issued.	Senate 21.46.07	Students fulfilling the requirements of PhD Degree: Decision: Approved.	Notification issued.	Senate 21.46.08	Students fulfilling the requirements of Int. PhD Degree: Decision: Approved.	Notification issued.	Senate 21.46.09	Students fulfilling the requirements of MS Degree: Decision: Approved.	Notification issued.	B.O.G.21.44.07	Items arising from the 47 th Senate meeting held on 18.06.2021	Notification issued.	B.O.G.21.44.08	Proposal regarding books purchased by faculty members of IISER Mohali using their CPDA and extra-mural funds: Decision: Approved	Implemented	B.O.G.21.44.09	Consideration of the appeal of Ms. Pallavi, Regn. No.PH15015	BoG resolution was
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			conveyed to the Appellant.
	B.O.G.21.44.10	Appointment of Principal Technical Officer for Computer Centre, IISER Mohali	Under process
	B.O.G.21.44.11	Faculty promotion at IISER Mohali	An agenda item No.21.45.16 is being put up.
	B.O.G.21.44.12	Modified Advanced Career Progression scheme	An agenda item No.21.45.12 is being put up.
	Ratification:		
	B.O.G.21.44.13	Deputation of Prof. Arvind, Department of Physical Sciences to Punjabi University Patiala	Ratified.
	Reporting:		
	B.O.G.21.44.14	Financial position as on 10.06.2021:	Noted.
	B.O.G.21.44.15	Appointment of Honorary and Adjunct Faculty in Departments of Biological and Physical Sciences at IISER Mohali	Noted.
	B.O.G.21.44.16	Constitution of Research Advisory Committee (RAC) for IISER Mohali	Noted.
	B.O.G.21.44.17	Appointments as Dean R&D, Associate Dean R&D and Associate Dean Students	Noted.
	B.O.G.21.44.18	Pending Items of the previous BoG meetings:	Noted.
	B.O.G.21.44.19	Annual Performance Appraisal Reports (APAR) for non-faculty employees of the Institute	Noted.
	B.O.G.21.44.20	Any other item with the permission of the Chair.	NIL.
	Comments of IFD: May be reported as per Rules.		
Comments of Bureau: May be noted.			
Decision	Noted.		
For Consideration and Approval:			
B.O.G.21.45.05	Item arising from the 37th meeting of the Finance Committee to be held on 07.09.2021.		
F.C.21.37.05	Adoption of Annual Statement of Accounts for the year 2020-21:		
	The Annual Statement of Accounts for the year 2020-21, as audited by the Institute's external auditor, is appended as <i>Annexure-II (attached as a separate file with the Agenda)</i> .		

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	<p><i>On the recommendations of the Finance Committee, the Board of Governors is requested to approve the Annual Statement of Accounts for the year 2020-21.</i></p> <p>Comments from IFD: May be considered. Comments of Bureau: May be considered.</p>
Decision	On the recommendations of the Finance Committee, the Board of Governors resolved to adopt the Annual Statement of Accounts for the year 2020-21.
F.C.21.37.06	Separate Audit Report of the CAG on the Accounts of IISER Mohali for the year ended 31st March 2020
	<p>The CAG's Separate Audit Report (SAR) was forwarded to the Institute by MoE on 25.06.2021 for the year 2019-20. The SAR contains the comments of the CAG on the accounting procedure of the Institute. Accordingly, the Accounts Section as well as the CA have been issued clear cut instructions to rectify observations of CAG for the coming financial year.</p> <p>The SAR has commented on the lack of physical verification of fixed assets and inventory. The Institute has started the physical verification of fixed assets and inventory by adopting Bar coding technique. Approximately 80% of the work has been completed and remainder will be completed in the next two months.</p> <p>Further, the report has stated that Institute had paid gratuity of Rs.12.69 lakhs during the year 2019-20 to the employees in violation of the instructions of MHRD vide letter No.F.No.19-1/2017-IFD, dated 12.04.2017. The Institute has determined that the said amount was paid to the previous Registrar in the month of August 2019. A notice seeking explanation was sent to the permanent home address of superannuated Registrar, which has been returned as <i>undelivered</i>.</p> <p><i>On the recommendations of the Finance Committee, the Board of Governors is requested to take note and approve the actions initiated by the Institute in response to comments of CAG contained in SAR.</i></p> <p>Comments from IFD: May be considered. Comments of Bureau: May be considered.</p> <p>On the matter of Institute's payment of gratuity to the former Registrar, the Chairperson sought inputs from the representatives of the Ministry who informed that as per instructions of the IFD issued vide letter dated 12th April, 2017, the benefits of retirement gratuity is not applicable to Autonomous Body/organizations covered under NPS. Therefore, the amount paid as gratuity to the employee, in the year 2019 after two years of issue of above letter, is in violation of the aforesaid instructions of IFD and is required to be recovered from the employee concerned.</p>

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Decision	On the recommendations of the Finance Committee and after detailed deliberations, the Board of Governors resolved that the Institute may interact with the Ministry of Education to explore suitable ways to recover this public money that had been paid as gratuity to the former Registrar in violation of Ministry instructions.
F.C.21.37.07	Payment of half-fellowship for six months to students of Int. Ph.D
	<p>Fellowships are paid by the Institute to its Ph.D students ordinarily for a period of five years, and the BoG has previously approved that they may be paid half-fellowship for additional period of six months thereafter, which is to be met out of the interest accrued on the Endowment Fund.</p> <p>Likewise, Integrated PhD students receive Institute fellowships for six years (which includes two years prior to PhD registration), and at its 33rd meeting held on 29.08.2018, the BoG had recommended half-fellowship payment for an additional six months thereafter for the first three batches of Integrated PhD students.</p> <p><i>On the recommendations of the Finance Committee, the Board of Governors is requested to approve payment of half-fellowship to Integrated PhD students of the Institute for six months after completion of the period of full fellowship, which is to be met out of the interest money accrued on the Endowment Fund.</i></p> <p>Comments from IFD: May be considered. Comments of Bureau: May be considered.</p>
Decision	On the recommendations of the Finance Committee, the Board of Governors resolved to approve payment of half-fellowship to Integrated PhD students of the Institute for six months after completion of the period of full fellowship, which is to be met out of the interest money accrued on the Endowment Fund.
F.C.21.37.08	Delegation of financial powers to the Director for the use of interest accrued on Endowment Fund towards Research and Development activities of the Institute upto Rs.20.00 lakhs
	<p>The current corpus of the Institute's Endowment Fund is approximately Rs.36.00 crores. Presently, the approval of the Board of Governors is required for use of any amount out of the Endowment Fund. Occasionally, the funds are required for research and development purposes urgently and such work may be subject to delay in the absence of immediate approval of the BoG.</p> <p><i>On the recommendations of the Finance Committee, the Board of Governors is requested to approve the delegation of financial power to the Director for the use of interest accrued on Endowment Fund required for Research and Development activities of the Institute upto Rs.20.00 lakhs, subject to a report being submitted subsequently to the BoG for its ratification.</i></p> <p>Comments from IFD: May be considered. Comments of Bureau: May be considered.</p>

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Decision	On the recommendations of the Finance Committee, the Board of Governors approved the delegation of financial powers to the Director for use of interest accrued on Endowment Fund that may be urgently required for Research and Development activities of the Institute, upto a limit of Rs.20 lakhs between two successive meetings of the Board of Governors, and subject to a report being submitted subsequently to the BoG for its ratification.
B.O.G.21.45.06	Items arising from the 48th Senate meeting to be held on 31.08.2021
	Comments from IFD: May be considered. Comments of Bureau: May be considered.
Decision	On the recommendations of the Senate, the Board of Governors resolved to award BS-MS degree to Mr. Abhishek Kumar, MS16021, CHM, CPI:8.5.
B.O.G.21.45.07	Minutes of 14th Meeting of the Building and Works Committee to be held on 01.09.2021
	Will be placed on table. Comments from IFD: No comments. Minutes will be placed on table Comments of Bureau: May be considered. The Registrar shared the important recommendations of the meeting of the Building and Works Committee held on 01.09.2021 (copy of Minutes is attached as Annexure-II, Pages:38 to 45).
Decision	The Board of Governors approved the minutes of the 14th meeting of Building and Works Committee.
B.O.G.21.45.08	Meeting of the Research Advisory Committee (RAC)
	A meeting of the RAC was held on 20.08.2021. Minutes of the Committee meeting are enclosed at <i>Annexure-III, Pages:53 to 56 of the Agenda</i> . Comments from IFD: May be considered. Comments of Bureau: May be considered. Observations and recommendations of the RAC were discussed in the meeting. The Chairperson suggested that since the Institute would be 15 years old this month, it may be appropriate for the teaching and research performance of the Institute to be reviewed by an International Committee. He desired that a concept note and proposal for this may be brought up in the next meeting of Board of Governors for consideration.
Decision	RAC proceedings approved. After detailed deliberations, the Board of Governors recommended that the Institute should prepare itself for an International Review and that a detailed

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	proposal regarding this may be presented in the next meeting of the Board of Governors for discussion and consideration.
B.O.G.21.45.09	Annual Report for the year 2020-21
	<p>The Office of Dean R&D has prepared the text of the Annual Report 2020-21 (excluding the Statement of Accounts), which is appended at <i>Annexure-IV (attached as a separate file with the Agenda)</i>.</p> <p><i>The Board of Governors is requested to approve the draft report.</i></p> <p>Comments from IFD: May be considered. Comments of Bureau: May be considered.</p> <p>The Chairperson requested the members to go through the Annual Report of the Institute and if they have any inputs, these can be communicated to the Institute by 14.09.2021. Subsequently, the Institute may go ahead and get it printed.</p>
Decision	The Board of Governors approved the draft Annual Report.
B.O.G.21.45.10	MoU signed between Ministry of Education, GoI and IISER Mohali for FY 2021-22:
	<p>The Institute has signed MoU with the Ministry of Education, GoI for FY 2021-22 which is appended at <i>Annexure-V, Pages:57 to 72 of the Agenda</i>.</p> <p><i>The BoG is requested to consider and approve the MoU for FY 2021-22.</i></p> <p>Comments from IFD: May be considered. Comments of Bureau: May be considered.</p>
Decision	The Board of Governors approved the MoU signed between Ministry of Education, GoI and IISER Mohali for FY 2021-22.
B.O.G.21.45.11	Approval of voluntary retirement of Dr. S K Arun Murthi, Assistant Professor under VRS:
	<p>Dr. S K Arun Murthi had joined as Assistant Professor in the Department of Humanities and Social Sciences, IISER Mohali on 29.10.2012 at the age of 52 years. Vide his letter dated 11.02.2021, he had requested for seeking Voluntary Retirement. He was on Sabbatical Leave from 01.08.2019 to 31.07.2020 and after completion of Sabbatical Leave, he was required to serve the Institute for at least one year, which completed on 31.07.2021.</p> <p>The Director has accepted the request for voluntary retirement on health grounds of Dr. Arun Murthi with a three months notice period.</p>

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	<p><i>The Board of Governors is requested to consider and approve the voluntary retirement of Dr. Arun Murthi, as per the CCS Rules.</i></p> <p>Comments from IFD: May be considered as per statutes of the institute. Comments of Bureau: May be considered as per rules.</p>
Decision	The Board of Governors approved the request of voluntary retirement of Dr. Arun Murthi, as per the CCS Rules.
B.O.G.21.45.12	Career Advancement Scheme for faculty at IISER Mohali
	<p>At the 44th meeting held on 22.6.2021, the BoG had discussed a draft proposal for a scheme to provide career advancement for the faculty, from the position of Assistant Professor to Associate Professor and from Associate Professor to Professor. Clause 16(1) of the IISER Statutes provides to the Board the power to decide that a particular academic post be filled by promotion from amongst the members of the staff of the Institute.</p> <p>As minuted at the 44thBoG meeting, the Board held detailed discussions on a variety of matters related to the draft proposal viz. provisions relating to such arrangements in other centrally funded educational institutions; ordinary residency period for promotions from Assistant Professor to Associate Professor and from Associate Professor to Professor; quantity and quality of Referees' reports (national and international), whether there would be in-person interaction of the candidate with the Assessment Committee, composition of Assessment Committee with regard to Core members and subject-specific experts, etc.</p> <p>After detailed deliberations, the Board of Governors agreed, in principle, with the proposal for a faculty promotion policy in the Institute. The BoG desired that a comprehensive document comprising all details as discussed above, be prepared by the Institute which after approval by the Chairperson may be sent to all members of the BoG to obtain their approval by circulation."</p> <p>Accordingly, the Institute has prepared a modified career advancement scheme for the faculty (<i>Annexure-VI, Pages:73 to 75 of the Agenda</i>) that incorporates the following suggestions that were discussed in the 44thBoG meeting.</p> <ol style="list-style-type: none"> 1. Ordinary residency period for promotions from Assistant Professor to Associate Professor and from Associate Professor to Professor each is to be six years. 2. Quantity and quality of Referees' reports (national and international) : at least five referees' reports will be required, not less than two of which are from international experts. 3. In-person interaction of the candidate with the Assessment Committee will be required. 4. The Assessment Committee for each applicant will be comprised of (i) a Core Assessment Committee (common for all the applicants across different Departments) that is approved by the Board and including the Director, who will serve as the Chair of the Assessment Committee, the Deputy Director, one

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	<p>Professor of the Institute, and at least one external person of eminence with a broad understanding of different fields; and (ii) at least three external subject-specific experts drawn from the panel of Board-approved experts for different disciplines. The Director may also invite the Head of the relevant Department, a Professor from the concerned department or a Professor from another department to be a member of the Assessment Committee. In case the Head of the Department of the relevant Department is not a Professor, he/she may only be invited to serve in the Committee for the promotion of an Assistant Professor to Associate Professor.</p> <p><i>The draft proposal, modified as per the suggestions of the BoG at its 44th meeting, is put up for consideration and approval of the Board.</i></p> <p>Comments from IFD: May be considered as per guidelines of MoE. Comments of Bureau: May be considered and decided in the meeting.</p> <p>During the discussions, the following modifications were suggested by the Chairperson and members for incorporation in the proposed scheme for Career Advancement of faculty of the Institute:</p> <ol style="list-style-type: none"> 1. The Core Assessment Committee is to include six external persons of eminence – one each from the disciplines of Physics, Chemistry, Biology, Mathematics, Earth and Environmental Sciences, and Humanities and Social Sciences. 2. The Chairperson of the Assessment Committee is to be one of the external persons of eminence. 3. The Chairperson and all members of the Core Assessment Committee are to be nominated by the Board of Governors, with a term of three years.
Decision	<p>The draft policy document on “Career Advancement Scheme for Faculty at IISER Mohali” as annexed with the Agenda of the 45th Board of Governors meeting was approved by the Board of Governors, along with the following changes:</p> <ol style="list-style-type: none"> 1. The Core Assessment Committee is to include six external persons of eminence – one each from the disciplines of Physics, Chemistry, Biology, Mathematics, Earth and Environmental Sciences, and Humanities and Social Sciences. 2. The Chairperson of the Assessment Committee is to be one of the external persons of eminence. 3. The Chairperson and all members of the Core Assessment Committee are to be nominated by the Board of Governors, with a term of three years. <p>After incorporating the above mentioned 03 additional modifications, the complete policy document for career advancement of faculty is attached as Annexure-III, Page Nos.:46 to 48).</p>

Item No.	Agenda
B.O.G.21.45.13	Grant of MACP to eligible non-faculty employees
	<p>(A) At its 43rd meeting held on 30.03.2021, the BoG had approved implementation of MACP scheme for its non-teaching staff, and had directed that any excess amount paid owing to grant of undue financial upgradation before completion of MACP period may be recovered from them. In accord with these decisions:</p> <ul style="list-style-type: none"> i) A Department Screening Committee (DSC) was constituted to determine eligibility of grant of MACP to the individual employees and ii) A speaking office order dated 30.07.2021 was issued to all concerned conveying all the facts and circumstances with regard to earlier granted financial upgradation and implementation of MACP. Further, the recoveries of excess amount has already been initiated from the month of August 2021. <p>However, the DSC had observed that for none of the employees the APARs are available for the entire 10 year period. Hence, the former Registrar and the former Director were requested to sign APARs of the previous years but so far, they have not responded to the requests of the Institute.</p> <p>It is pertinent to mention that most employees have already spent more than 10 years required for MACP, and that the Institute is very keen that they be given MACP. However, in absence of duly filled APARs for ten years, the Institute is unable to process their cases.</p> <p>It is also worthwhile to mention here that some State Governments have relaxed this requirement of APARs e.g. Govt. of NCT of Delhi vide letter dated 19.08.2009 has adopted that <i>only preceding five years ACRs are required to be considered for granting benefit of MACPs. If the ACRs of required period are not available, then equal number of period of ACRs of preceding years may be considered. The attested photocopies of ACRs are sufficient. In case, the ACRs are missing the concerned HoS may give 'nothing adverse' and 'non-availability' certificate for the said period or the ACR grading, which may also be considered by the DSC. Every effort should be made to avoid the non-granting of MACPs benefit to the beneficiaries on the ground of missing ACRs. Copy attached as Annexure-VII, Pages:76 to 79 of the Agenda.</i></p> <p>Further, regarding MACP scheme, in the 2021 monsoon session of Parliament, the Minister of State in the Ministry of Personnel, Public Grievances and Pensions and Minister of State in the Prime Minister's office, in response to Rajya Sabha Unstarred Question No.431 has informed that the same procedure, as prescribed in case of promotion for the DPC, is observed by the Screening Committee for grant of MACP.. <i>(copy attached as Annexure-VIII, Pages:80 to 82 of the Agenda).</i></p> <p><i>In view of above, the BoG is requested to kindly approve the procedure similar to the decision by Govt. of NCT of Delhi vid its letter dated</i></p>

Item No.	Agenda
	<p><i>19.08.2009 cited above.</i></p> <p>(B) The Institute has received many representations from the employees (Group B & C) concerned against the notice for recovery of excess payments made earlier. These representations state that:</p> <ol style="list-style-type: none"> 1. <i>Withdrawal of financial upgradation vide aforesaid decision of the BoG may not be implemented;</i> 2. <i>Recovery of excess amount paid owing to financial upgradation may not be implemented, as the period pertaining to excess payment is more than five years earlier, which is barred as per DoPT letter F.No.18/03/2015-Estt.(Pay-I), dated 2nd March, 2016</i> 3. <i>Prior to financial upgradation withdrawn/recovery, the MACP scheme/promotion may be completed.</i> <p>The aforesaid DoPT letter F.No.18/03/2015-Estt.(Pay-I), dated 2nd March, 2016 states <i>inter alia</i> that the Hon'ble Supreme Court has summarized the following few situations, wherein recoveries by the employers would be impermissible in law:-</p> <ol style="list-style-type: none"> (i) <i>Recovery from employees belonging to Class-III and Class-IV service (or Group 'C' and Group 'D' service)</i> (ii) <i>Recovery from employees, when the excess payment has been made for a period in excess of five years, before the order of recovery is issued.</i> <p>With regard to the financial upgradation cases at IISER Mohali, it is informed that the financial upgradation was granted in July 2017 with retrospective dates along with payment of arrears.</p> <p><i>The BoG is requested to deliberate and decide on this matter.</i></p> <p>Comments from IFD: May be considered as per DoPT guidelines on the subject matter.</p> <p>Comments of Bureau: May be discussed and decided in the meeting.</p> <p>The Director and Registrar informed the BoG that at least two Civil Writ Petitions (CWPs) have been filed by the employees in the Hon'ble High Court of Punjab and Haryana, in this matter.</p> <p>The representatives of MoE and of MSME endorsed that APARs of just 5 years are being considered for MACP in their respective Ministries.</p>
Decision	<p>After detailed deliberations, the Board of Governors resolved as under:</p> <p>A) The policy regarding APARs for MACP as followed by Govt of NCT Delhi (19.08.2009) is to be adopted by the Institute and Institute may go ahead with implementation of MACP for its eligible staff based on above guidelines.</p> <p>B) While emphasizing that the Institute has acted on the decision of the BoG to revoke non-functional upgradation, the BoG, further directed the Institute to defend the decision of BoG in various CWPs filed in the Hon'ble Punjab and Haryana High Court.</p>

Item No.	Agenda
B.O.G.21.45.14	Appeal from Shri Bipul Kumar Chaudhary, former Assistant Registrar, for settlement of dues
	<p>Shri Bipul Kumar Chaudhary joined the Institute as Assistant Registrar in April 2017 but the BoG (at its 32nd meeting held on 19.05.2018) did not clear his probation. MHRD vide its letter dated 26.07.2018 had directed that Shri Bipul Chaudhury “may be relieved from the services of IISER Mohali and till necessary formalities to relieve him are completed by IISER Mohali, he may be asked to proceed on leave immediately”. Accordingly, the Institute issued Office Order dated 26.07.2018 asking Shri Bipul Chaudhary to proceed on leave.</p> <p>Subsequently at its 33rd meeting held on 29.08.2018, the BoG decided to relieve Shri Bipul Kumar Choudhary with one month’s notice or one month salary in lieu of the notice. An Office Order issued dated 23.10.2018 stated that “Shir Bipul Kumar Choudhary, Assistant Registrar being a temporary employee, is hereby relieved from the services of the IISER Mohali with immediate effect”, and further that “As per the CCS Temporary Service Rules (Rule 5), he is entitled to one month’s notice or one month salary in lieu of the notice. Accordingly, Shri Bipul Kumar Choudhary was paid one month’s salary in lieu of the notice.</p> <p>In February 2020, however, the Institute determined that since the services of the official were terminated during the period of probation, he would not be entitled to salary of one month in lieu of notice period [as per Clause 17(5) of the IISER Statutes].</p> <p>Vide his letter dated 25.11.2020, Shri Bipul Chaudhary has requested for release of the following, and has also subsequently addressed appeals to the Chairperson of BoG in this regard:</p> <ol style="list-style-type: none"> 1. Payment of Children Education Allowance 2. Cash equivalent to leave 3. Terminal Gratuity payable to temporary Government servants <p>Unfortunately, the Institute has been unable to settle this matter since there is uncertainty with regard to whether the period from 26.07.2018 (date on which he was asked to proceed on leave) to 23.10.2018 (date of his relief from service) is to be treated as one during which the official was on duty or on leave. There is no record of leave application form or sanction of leave to the official for this period, and he was paid full salary for this period at the time that his services were discontinued on 23.10.2018. An opinion has been sought in the matter from the Institute’s legal advisor. It is also to be noted that licence fee of Rs.2960/- and penal rent of Rs.49728/- for retention of residential quarter until 06.02.2019 is recoverable from the official.</p> <p><i>The BoG is requested to deliberate and decide on this matter.</i></p> <p>Comments from IFD: As per records of the Institute there is no leave application or sanction of leave. Obviously, the recoveries are to be made for the absent period.</p> <p>Comments of Bureau: May be discussed and decided in the meeting.</p>

Item No.	Agenda
	<p>The Registrar informed the BoG that MHRD had written to the Director on 26.07.2018 stating</p> <ul style="list-style-type: none"> (i) that the former Registrar (Dr. P. Bapaiah) may be asked to proceed on leave till completion of the enquiry; and (ii) that former AR (Mr. Bipul Kumar) may be relieved from the services of IISER Mohali and till necessary formalities to relieve him are completed by IISER Mohali, he too may be asked to proceed on leave immediately. <p>The Institute had then sent an email to seek clarification from MHRD regarding leave of both the Registrar and AR. In its reply dated 30.07.2018, MHRD had directed that the leave as applied by the Registrar may be deducted from the leave account of the Registrar, but had made no mention regarding the leave of AR.</p> <p>The members of the BoG opined that since the direction for both the officials to be asked to proceed on leave was made in the same letter and under similar circumstances, the leave for AR is to be treated in a similar way as was decided in the case of Registrar.</p>
Decision	After detailed deliberations, the Board of Governors decided that former AR (Shri Bipul Kumar Chaudhary) is to be treated as being on leave from 26.07.2018 to 23.10.2018 and this period is to be deducted from his leave account.
Ratification:	
B.O.G.21.45.15	Selection of Resident Medical Officer (Lady)
	<p>The meeting of the Selection Committee for recruitment of Resident Medical Officer (Lady) was held on 28.07.2021. The recommendations of the committee were approved by the Chairperson, BoG. The offer letter has been issued to the concerned.</p> <p><i>The Board of Governors is requested to ratify the approval of the Chairperson, BoG.</i></p> <p>Comments from IFD: May be ratified if the process of selection was made as per rules against an existing vacant sanctioned post.</p> <p>Comments of Bureau: May be considered as per rules.</p> <ul style="list-style-type: none"> 1. Selected candidate: Dr. Meena Jethani 2. Wait listed candidate: Dr. Sheena Anand
Decision	The Board of Governors ratified the approval granted by the Chairperson, BoG regarding recommendations of the Selection Committee for appointment of Resident Medical Officer (Lady).

Item No.	Agenda																															
B.O.G.21.45.16	Appointment of Deputy Registrar (F&A)																															
	<p>The meeting of the Selection Committee for selection to the post of Deputy Registrar (F&A) was held on 26th and 27th August, 2021 at IISER Mohali. The recommendations of the Committee are being submitted to the Chairperson, BoG, for approval.</p> <p><i>The Board of Governors is requested to ratify the approval of the Chairperson, BoG.</i></p> <p>Comments from IFD: May be ratified if the process of selection was made as per rules against an existing vacant sanctioned post.</p> <p>Comments of Bureau: May be considered as per rules.</p> <p>1. Selected candidate: Shri Harjit Singh</p> <p>2. Wait listed candidate: Shri Gautam Sharma</p>																															
Decision	The Board of Governors ratified the approval granted by the Chairperson, BoG regarding recommendations of the Selection Committee for appointment of Deputy Registrar (F&A).																															
B.O.G.21.45.17	Nomination of BoG members to B&WC																															
	<p>In accordance with the provision under Section 9(1)(d) of the Statutes of IISERs, the Chairperson, Board of Governors, IISER Mohali has nominated Prof. Chanchal Kumar as member of the Building and Works Committee, IISER Mohali for the duration that he is member of the Board of Governors.</p> <p><i>The Board of Governors is requested to ratify the nomination of the Chairperson, BoG.</i></p> <p>Comments from IFD: May be considered having the domain knowledge.</p> <p>Comments of Bureau: May be considered as per rules.</p>																															
Decision	The Board of Governors ratified the nomination by the Chairperson, BoG of Prof. Chanchal Kumar as member of the Building and Works Committee.																															
Reporting:																																
B.O.G.21.45.18	Financial position as on 27.08.2021:																															
	<table><tr><th rowspan="2">Particulars</th><th rowspan="2">Opening Balance</th><th rowspan="2">Grant-in-aid received</th><th rowspan="2">Total Available</th><th rowspan="2">Expenditure</th><th>Rs. In lakhs</th></tr><tr><th>Closing Balance</th></tr><tr><td>OH-31 (General)</td><td>764.72</td><td>1100.00</td><td>1864.72</td><td>1671.44</td><td>193.28</td></tr><tr><td>OH-35 (Capital)</td><td>131.08</td><td>575.00</td><td>706.08</td><td>253.49</td><td>452.59</td></tr><tr><td>OH-36 (Salary)</td><td>1087.53</td><td>1800.00</td><td>2887.53</td><td>1670.25</td><td>1217.28</td></tr><tr><td>Total</td><td>1983.33</td><td>3475.00</td><td>5458.33</td><td>3595.18</td><td>1863.15</td></tr></table>	Particulars	Opening Balance	Grant-in-aid received	Total Available	Expenditure	Rs. In lakhs	Closing Balance	OH-31 (General)	764.72	1100.00	1864.72	1671.44	193.28	OH-35 (Capital)	131.08	575.00	706.08	253.49	452.59	OH-36 (Salary)	1087.53	1800.00	2887.53	1670.25	1217.28	Total	1983.33	3475.00	5458.33	3595.18	1863.15
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Item No.	Agenda																				
	Comments from IFD: May be considered and expenditure may be restricted to the allocations made. Comments of Bureau: May be noted.																				
Decision	Noted.																				
B.O.G.21.45.19	Status of filling up of backlog vacancies of the SC/ST/OBC/EWS:																				
	<p>The Secretary, MoE, GoI, vide letter dated 24th August, 2021 has desired that the backlog of the faculty positions that are lying vacant, especially in the SC, ST, OBC and EWS category in the CHEIs, be filled in a Mission Mode within a period of one year starting from 5th September, 2021 to 4th September, 2022 and a report in this regard to be included as an agenda item in every Finance Committee/BoG meeting, giving status of filling up of backlog vacancies.</p> <p>The Institute has already initiated a Special Recruitment Drive for filling up the vacancies of SC, ST, OBC and EWS categories. The advertisement for the same was issued in October 2020. The Interviews have been scheduled and the process will be completed soon.</p> <p>Comments from IFD: May be considered out of existing vacant sanctioned posts, duly complying the reservation roster. Comments of Bureau: May be noted.</p>																				
Decision	Noted.																				
B.O.G.21.45.20	Pending Items of the previous BoG meetings:																				
	<table><tr><th>Item No.</th><th>Item Name</th><th>Action Taken</th></tr><tr><td>B.O.G.20.39.6</td><td>Payment of Retirement Gratuity and Death Gratuity</td><td>Response from Ministry is awaited</td></tr><tr><td>B.O.G.20.39.8(c)</td><td>Recovery of Legal Expenses from the Former Director</td><td>Response from Ministry is awaited</td></tr><tr><td>B.O.G.20.40.19</td><td>Approval of Draft Recruitment Rules for IISERs pending with MHRD for its approval.</td><td>Approval from Ministry is awaited.</td></tr><tr><td>B.O.G.20.41.05</td><td>Enhancement of Travelling Allowance</td><td>Approval from Ministry is awaited.</td></tr><tr><td>B.O.G.20.41.07</td><td>Creation of faculty and non-faculty positions at IISER Mohali</td><td>Approval from Ministry is awaited.</td></tr></table>	Item No.	Item Name	Action Taken	B.O.G.20.39.6	Payment of Retirement Gratuity and Death Gratuity	Response from Ministry is awaited	B.O.G.20.39.8(c)	Recovery of Legal Expenses from the Former Director	Response from Ministry is awaited	B.O.G.20.40.19	Approval of Draft Recruitment Rules for IISERs pending with MHRD for its approval.	Approval from Ministry is awaited.	B.O.G.20.41.05	Enhancement of Travelling Allowance	Approval from Ministry is awaited.	B.O.G.20.41.07	Creation of faculty and non-faculty positions at IISER Mohali	Approval from Ministry is awaited.	<p>Comments from IFD: May be considered.</p> <p>As to Retirement/Death Gratuity to the NPS borne employees, the matter is yet to be decided. Under consideration of MoF.</p> <p>Regarding creation of posts, a consolidated proposal w.r.t. all IISERs was sent to MoF for approval. A decision is still awaited.</p>	
Item No.	Item Name	Action Taken																			
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B.O.G.20.41.07	Creation of faculty and non-faculty positions at IISER Mohali	Approval from Ministry is awaited.																			

Item No.	Agenda
	<p>Comments of Bureau: May be noted.</p> <p>In addition to above, the Institute has also informed that the case regarding appointment of Prof. Arvind and recommendation for his placement in HAG scale are also pending in the Ministry of Education.</p>
Decision	Noted.
B.O.G.21.45.21	<p>Any other item with the permission of the Chair: NIL</p> <p>Comments of Bureau: Not yet received and untabled agenda items need to be discouraged.</p>

**Sd/-
Director
IISER Mohali**

**Sd/-
Chairperson
BoG, IISER Mohali**

**Sd/-
Secretary
BoG, IISER Mohali**

Indian Institute of Science Education and Research (IISER) Mohali

**Presentation to the 45th Meeting of the
Board of Governors
September 07, 2021**



Faculty ➤ 104

Departments

- Physics
- Chemistry
- Biology
- Mathematics
- Earth and Environmental Sciences
- Humanities and Social Sciences

Students

- 1000 students in the 5-year BS-MS program
- 600 Integrated PhD and PhD students



Research achievements April – August 2021



Some publications

Department of Physical Sciences:

- Enhanced electrical transport through wrinkles in turbostratic graphene films. (*Appl. Phys. Lett.* 2021, Goutam Sheet)
- Competitive interplay of repulsive coupling and cross-correlated noises in bistable systems. (*Chaos* 2021, Sudeshna Sinha)
- A unified formalism to study the pseudorapidity spectra in heavy-ion collision. (*Euro. Phys. Jour. A*, 2021, Satyajit Jena)
- Observations of AR Sco with Chandra and AstroSat soft X-ray telescope. (*J. Astrophys. and Astron.*, 2021, Kulinder Pal Singh)
- The evolving radio jet from the neutron star X-ray binary 4U 1820–30. (*MNRAS Letters* 2021, Aru Beri)
- Dynamic noncommutative BTZ black holes. (*Physics Letters B*, 2021, Sanjib Dey)
- Polarization selective Dove prism. (*Optics Express*, 2021, Sandeep K. Goyal)
- Antiferromagnetic skyrmions and skyrmion density wave in a Rashba-coupled Hund insulator. (*Phys. Rev. B* 2021, Sanjeev Kumar)
- Anomalous negative longitudinal magnetoresistance and violation of Ohm's law deep in the topological insulating regime in $\text{Bi}_{1-x}\text{Sb}_x$. (*Scientific Reports*, 2021, Yogesh Singh)

Some publications

Department of Physical Sciences:

- Hysteresis loop area scaling exponents in DNA unzipping by a periodic force: A Langevin dynamics simulation study. (*Phys. Rev. E*, 2021, Rajeev Kapri)
- Revealing Thermal Comptonization of Accretion Disk Photons in IC 4329A with AstroSat. (*The Astrophysical Journal*, 2021, Kulinder Pal Singh)
- Irreversible thermodynamics of thermoelectric devices: from local framework to global description. (*J. Stat. Mech.* 2021, Ramandeep S. Johal)
- Tip-induced Superconductivity. (*J. Phys. Cond. Matt.* 2021, Goutam Sheet)
- 2D weak anti-localization in thin films of the topological semimetal $\text{Pd}_3\text{Bi}_2\text{S}_2$. (*Scientific Reports*, 2021, Goutam Sheet, Yogesh Singh)
- Studying the effect of fluctuating environment on intra-atomic frequency comb based quantum memory. (*Scientific Reports*, 2021, Sandeep K. Goyal)
- Exotic image formation in strong gravitational lensing by clusters of galaxies – I. Cross-section. (*MNRAS*, 2021, Jasjeet S. Bagla)
- Field induced hysteretic structural phase switching and possible CDW in Re-doped MoTe_2 . (*J. Phys. Cond. Matt.*, 2021, Goutam Sheet)
- Antiferromagnetic skyrmion crystals in the Rashba Hund's insulator on triangular lattice. (*Scientific Reports*, 2021, Sanjeev Kumar)

Some publications

Department of Chemical Sciences:

- Superior Proton-Transfer Catalytic Promiscuity of Cytochrome c in Self-Organized Media. (*ChemBioChem* 2021, Subhabrata Maiti)
- Interconnectivity between Surface Reactivity and Self-assembly of Kemp Elimination Catalyzing Nanorods. (*Chemistry – A European Journal* 2021, Subhabrata Maiti)
- Macromolecular Crowding Effect on the Activity of Liposome-Bound Alkaline Phosphatase: A Paradoxical Inhibitory Action (*Langmuir* 2021, Subhabrata Maiti)
- Dictating Catalytic Preference and Activity of a Nanoparticle by Modulating Its Multivalent Engagement (*ACS Catalysis* 2021, Subhabrata Maiti)
- Enhanced Charge Transport in Two-Dimensional Materials through Light–Matter Strong Coupling. (*ACS Nano* 2021, Jino George)
- Anisotropy in mechanical unfolding of protein upon partner-assisted pulling and handle-assisted pulling. (*Commun. Biol.* 2021, Sabyasachi Rakshit)
- Probing Nanoscale Lipid-Protein interactions at the interface of Liquid Crystal Droplets (*Nano Lett.* 2021, Santanu Kumar Pal)
- Photo-Responsive Behavior of Azobenzene Based Polar Hockey-Stick-Shaped Liquid Crystals. (*ChemphysChem* 2021, Santanu Kumar Pal)

Some publications

Department of Chemical Sciences:

- A Dual-Function Highly Crystalline Covalent Organic Framework for HCl Sensing and Visible-Light Heterogeneous Photocatalysis. (*Macromolecules* 2021, Santanu Kumar Pal)
- Molecular Engineering for the Development of a Discotic Nematic Mesophase and Solid-State Emitter in Deep-Blue OLEDs. (*J. Org. Chem.* 2021, Santanu Kumar Pal)
- Enabling efficient ambipolar charge carrier mobility in H-bonded heptazine-triphenylene system forming segregated donor-acceptor columnar assemblies. (*J. Mater.Chem. C* 2021, Santanu Kumar Pal)
- Bimodal Floquet theory of phase-modulated heteronuclear decoupling experiments in solid-state NMR spectroscopy, (*J. Chem. Phys.* 2021, Ramesh Ramachandran)
- Pd(II)-catalyzed directing group-aided C-H arylation and alkylation of pyrene core. Synthesis of C1,C2- and C1,C10-disubstituted pyrene motifs (*Synthesis* 2021, S. A. Babu)
- Recent Developments on the Synthesis of Functionalized Carbohydrate/Sugar Derivatives Involving the Transition Metal-Catalyzed C-H Activation / C-H Functionalization. (*Studies in Natural Products Chemistry* 2021, S. A. Babu)
- Construction of Racemic (DL) and Enantiopure (D and L) Biaryl Unnatural Amino Acid Derivatives via The Pd(II)-Catalyzed Arylation of Unactivated sp³ C-H Bonds (*Eur. J. Org. Chem.* 2021, S. A. Babu)

Some publications

Department of Biological Sciences:

- Relish plays a dynamic role in the niche to modulate *Drosophila* blood progenitor homeostasis in development and infection (*eLife*, 2021, Lolitika Mandal)
- Ubx-Collier signaling cascade maintains blood progenitors in the posterior lobes of the *Drosophila* larval lymph gland (*PLOS Genetics*, 2021, Lolitika Mandal)
- Structural and functional complexity decoded in bird vocalization (*Behavioural Ecology and Sociobiology*, 2021, Manjari Jain)
- In Vitro Studies Reveal that *Pseudomonas*, from *Odontotermes obesus* Colonies, can Function as a Defensive Mutualist as it Prevents the Weedy Fungus While Keeping the Crop Fungus Unaffected (*Microbial Ecology*, 2021, Rhitoban Raychoudhury)
- Enemies make you stronger: Coevolution between fruit fly host and bacterial pathogen increases postinfection survivorship in the host (*Ecology and Evolution*, 2021, N. G. Prasad)
- Experimental evolution reveals sex-specific dominance for surviving bacterial infection in laboratory populations of *Drosophila melanogaster* (*Evolution Letters*, 2021, N. G. Prasad)
- Topoisomerase I essentiality, DnaA-independent chromosomal replication, and transcription-replication conflict in *Escherichia coli*. (*Journal of Bacteriology*, 2021, J Gowrishankar)

Some publications

Department of Biological Sciences:

- Structures and functions of the membrane-damaging pore-forming proteins (*Advances in Protein Chemistry and Structural Biology*, 2021, Kausik Chattopadhyay)
- Molecular insights into effector binding by DgoR, a GntR/FadR family transcriptional repressor of D-galactonate metabolism in Escherichia coli (*Molecular Microbiology*, 2021, Rachna Chaba)
- Salmonella Typhimurium Adhesin OmpV Activates Host Immunity To Confer Protection against Systemic and Gastrointestinal Infection in Mice (*Infection and Immunity*, 2021, Arunika Mukhopadhyaya)
- Immunoporosis: Role of Innate Immune Cells in Osteoporosis (*Frontiers in Immunology*, 2021, Arunika Mukhopadhyaya)
- Conformation-Specific Perturbation of Membrane Dynamics by Structurally Distinct Oligomers of Alzheimer's Amyloid- β Peptide (*Physical Chemistry Chemical Physics*, 2021, Samrat Mukhopadhyay)
- Ultrasensitive Characterization of the Prion Protein by Surface-Enhanced Raman Scattering: Selective Enhancement via Electrostatic Tethering of the Intrinsically Disordered Domain with Functionalized Silver Nanoparticles (*Journal of Physical Chemistry Letters*, 2021, Samrat Mukhopadhyay)

Some publications

Department of Earth and Environmental Sciences:

- Biotic response to environmental shift during the Permian-Triassic transition: Assessment from organic geochemical proxies and palynomorphs in terrestrial sediments from Raniganj Sub-basin, India. (*Palaeogeography, Palaeoclimatology, Palaeoecology*, 2021, Sharmila Bhattacharya)
- Identification of lanostanes, A-ring methylated steranes and secosteranes in late Neoproterozoic crude oils by GC×GC-TOFMS: New insights into molecular taphonomy of steroid. (*Geobios*, 2021, Sharmila Bhattacharya)
- Gridded 1 km × 1 km emission inventory for paddy stubble burning emissions over north-west India constrained by measured emission factors of 77 VOCs and district-wise crop yield data. (*Science of the Total Environment*, 2021, Vinayak Sinha)
- RTEll: A new high-resolution (0.1° × 0.1°) road transport emission inventory for India of 74 speciated NMVOCs, CO, NO_x, NH₃, CH₄, CO₂, PM_{2.5} reveals massive overestimation of NO_x and CO and missing nitromethane emissions by existing inventories, (*Atmospheric Environment: X*, 2021, Vinayak Sinha)

Some publications

Department of Earth and Environmental Sciences:

- Reactive coating modification of metal material with strong bonding strength and enhanced corrosion resistance for high-performance bioelectrode of microbial electrochemical technologies (*Journal of Power Sources*, 2021, Sunil Patil)
- Electrochemical enrichment of haloalkaliphilic nitrate-reducing microbial biofilm at the cathode of bioelectrochemical systems. (*iScience*, 2021, Sunil Patil)
- Long term natural and anthropogenic forcing on aquatic system - evidence based on biogeochemical and pollen proxies from lake sediments in Kashmir Himalaya, India. (*Applied Geochemistry*, 2021, Anoop Ambili)
- Characterization of sedimentary organic matter and depositional processes in the Mandovi estuary, western India: An integrated lipid biomarker, sedimentological and stable isotope approach. (*Applied Geochemistry*, 2021, Anoop Ambili)
- Representation of Arabian Peninsula summer climate in a regional atmospheric model using spectral nudging. (*Theoretical and Applied Climatology*, 2021, Raju Attada) Cloud resolving simulation of extremely heavy rainfall event over Kerala in August 2018 – Sensitivity to microphysics and aerosol feedback. (*Atmospheric Research*, 2021, Raju Attada)

Some publications

Department of Mathematical Sciences:

- Quaternion algebras with derivations. (*J. Pure Appl. Algebra*, 2021/22, Varadharaj & Amit Kulshreshta)
 - Naive A1-homotopies on ruled surfaces. (*International Mathematics Research Notices* 2021, Chetan Balwe)
 - Quandle cohomology, extensions and automorphisms. (*J. Algebra*, 2021, Mahender Singh)
-

Department of Humanities and Social Sciences:

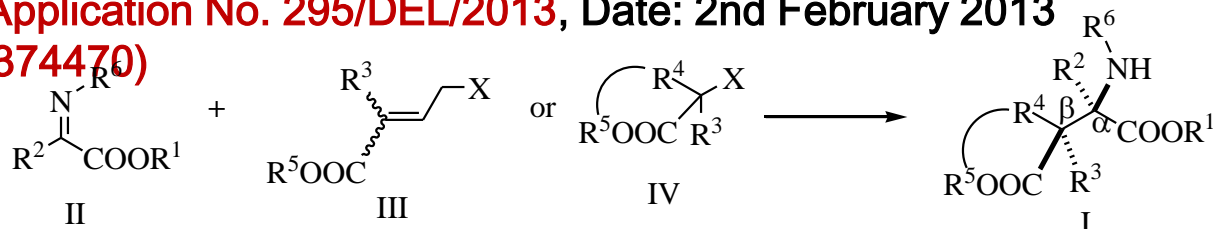
- Late Pleistocene Environments of South Asia: A Review of Multidisciplinary Research and Relevance for Understanding Hominin Environmental Adaptations. (*Man and Environment* 2021, Parth R. Chauhan)
- Microlithic occurrences associated with sediments dated to terminal Pleistocene-late Holocene in the central Narmada basin, Madhya Pradesh, India. (*Geological Society, London* 2021, Parth R. Chauhan)

Patents Granted/filed (April 2021 – till date)

(1) Inventors: Srinivasarao Arulananda Babu and Nayyar Ahmad Aslam

A stereoselective method for the preparation of beta-alkyl N-substituted aspartic acid derivatives.

Indian Patent Application No. 295/DEL/2013, Date: 2nd February 2013
(Granted, No. 374470)

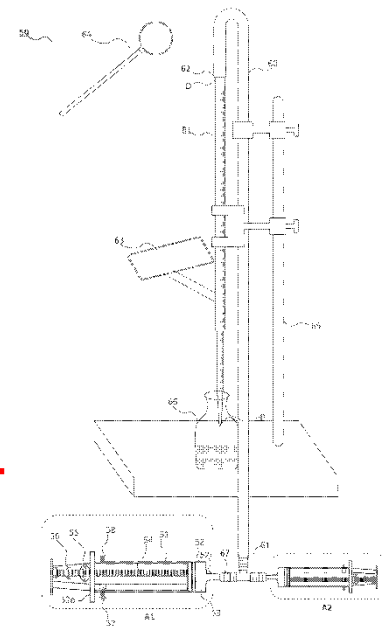


The present invention provides a process for the preparation of β -vinyl aspartate, β -alkyl aspartate and related compounds (having two contiguous stereocenters) via the direct metal-mediated Barbier-type and Reformatskii-type addition of 4-bromocrotonates to N -aryl/ N -tert-butylsulfinyl α -imino-esters.

(2) Inventor: Samrat Ghosh

A Semi-Automatic burette filler device and a modified burette devoid of stop-cock valve. Indian Patent (Granted No: 374368)

The present disclosure of semi-automatic burette filler device and modified burette is helpful to wheelchair bound users and persons with shorter heights to perform titration-type routine analytical task/experiments with safety and ease.



(3) Inventor: Dr. Ujjal Gautam

Photocatalyst and method of preparing the same. Indian Patent (Filed)

Extramural projects received (since April 2021)

Science Engineering and Research Board (SERB) - 5

- DR. SUNIL ANIL PATIL (Rs.79.3 lakh)
- PROF. SAMRAT MUKHOPADHYAY (Rs. 251 lakh)
- DR. SMRITI MAHAJAN (Rs. 46 lakh)
- PROF. SUDESHNA SINHA (Rs. 95 lakh)
- DRs. LOLITIKA MANDAL & SUDIP MANDAL (Rs. 53.5 lakh)

Department of Science & Technology (DST-FIST) - 1

- Head of Department, Mathematical Sciences (Rs. 70 lakh)

Ministry of Earth Sciences (MoES) - 1

- DR. VINAYAK SINHA, DR. BAERBEL SINHA (Rs. 628.6 lakh)

Aggregate of Sanctioned Amounts = Rs.12.3 crore approx.

Awards/Honors for students

- Rotash, working with Dr. Raju Attada has been selected for PMRFS
- Garima Arya (PhD student with Rachna Chaba) received the Bill and Melinda Gates Foundation Travel Award
- Jagadish P. Hazra: Received Scirox award (Cash prize and Citation) for Science Outreach from Punjab Soc. For Promotion of Science Technology and Innovation and Guru Nanak Dev University 2021.
- Amreen Bains: Received Dr. K. V. Rao Scientific Society research award in August 2021 that includes a cash prize of Rs. 20000 and a trophy.
- Nupur Tiwari: Promoted as Chair of Student Committee of World Archaeological Congress
- Anubhav Preet Kaur: Awarded research grants from Royal Anthropological Institute & The Paleontological Society
- Akash Srinivas: Selected for Rewriting World Archaeology Program

Technology Business Incubator (TBI) at IISER Mohali

CEO-TBI: Mr. Satyendra Singh

THE OBJECTIVES

1. Fostering the creation of a convergent innovation ecosystem that helps technology-based start-ups thrive while also benefiting other stakeholders such as customers, academics, industry, and investors.

2. Have world-class business incubator and accelerator facilities to host and nurture the start-ups

3. Facilitate commercialization of the technologies developed by various research institutes through the IISER platform

Currently 7 incubates are enrolled with the TBI



IISER Startup Incubation Program

❑ 13 start-ups selected out of 70+ registrations for phase 1 which is 3 weeks mentoring workshop.

i-RISE-Open Knowledge Session Series

❑ First Session was conducted on 1st July 2021, 115 registrations

Events in collaboration with other institutes

❑ Entrepreneurship Awareness Session on 21st May 2021 in association with C-CAMP Bengaluru and PSCST

❑ Coordinating with Punjab Innovation Mission for organising state-level Ideathon.

Facilities available: HPLC, Rotavapor, Centrifuge, Magnetic stirrers, Weighing balance, Biosafety cabinet, Autoclave, Deep freezer, Microwave, Vacuum pump, pH Meter, Gel shaker, Shaking incubator, etc.

Research Advisory Committee Meeting (20 August 2021)

- **External RAC Members:** Prof. Arun Grover, Prof. Ram Ramaswamy, Dr. Sanjeev Khosla, Prof. T. Ramadas, Prof. Prasad V. Bharatam

- Research achievements and quality of teaching from all the six departments of IISER Mohali was in general highly appreciated.
- A critical mass of faculty and students has been reached in each department, and the institute is now in a good phase in terms of research facilities and research activities.
- IISER Mohali should support facilities such as animal facility, liquid Helium, liquid Nitrogen and Computational facility. The institute shall present this case before the Ministry of Education for funds for the maintenance/running/upgradation of these facilities.
- The overall ratio of women faculty is reasonable, although it is not uniform across all departments. IISER Mohali should also focus on increasing overall social diversity.
- Increase the numbers of faculty working at the interfaces of Biology and Physics, and Biology and Chemistry
- Efforts should be made to hire faculty in applied mathematics
- No. of faculty members should be increased in HSS so as to provide students an exposure to diverse areas. There is a scope for the EES department also to grow in faculty strength.
- Suggested to involve INST faculty in teaching and research. Promote academic exchange with NABI

Academics at IISER

- Whereas research activities have been proceeding more or less unimpeded, all teaching (classrooms and labs) and evaluations have been online
- MS20 batch was admitted in January 2021 and teaching for both semesters has been completed by August 2021
- Monsoon semester 2021 has started online on 6 September. It is proposed to bring all students back to the campus, after they have been double-vaccinated, during this semester
- 70 PhD/IntPhD students have been admitted this year. MS21 batch is expected to join by November 2021
- Following BoG's approval in 2020, a scheme for merit-cum-means fellowship to BS-MS students has been initiated and 115 students have been given the fellowship from IRG

Funds Allocation under OH-31

Amount in Rs. Crores

Sr.	Year	Annual Grant Allocation	Expenditure Incurred
1	2017-18	38.60	36.35
2	2018-19	40.00	40.55
3	2019-20	43.75	40.40
4	2020-21	43.64	39.34
5	2021-22	<i>28.00</i>	<i>16.71</i> (in 5 months)

Fixed and unavoidable expenditure each month includes Rs 0.70 crore towards fellowships, Rs 0.75 crore towards electricity, and Rs 0.73 crore towards outsourcing, aggregating to Rs 26.2 crore annually



**INDIAN INSTITUTE OF SCIENCE
EDUCATION AND RESEARCH
(IISER), MOHALI**

**MINUTES OF MEETING OF 14TH MEETING
OF
BUILDING AND WORKS COMMITTEE OF
IISER, MOHALI**

**HELD ON
1st September, 2021 at 12:00 Noon**

**IN THE PREMISES OF IISER MOHALI
AT SECTOR 81, KNOWLEDGE CITY,
SAS NAGAR**

Minutes of 14th meeting of B&WC held on 01st September, 2021 at IISER Mohali

The following were present:-

1. Prof. J Gowrishankar, Director IISER Mohali
2. Prof Sudeshna Sinha, Deputy Director, IISER Mohali
3. Prof. Jagdeep Singh, Registrar IISER Mohali
4. Sh. A. K. Jain, Retd Special DG, CPWD(via video conferencing)
5. Sh. Jit Kumar Gupta, Ex- Advisor, Town Planning Department, PUDA and Ex Director, College of Architect, IET Bhaddal
6. Prof. Chanchal Kumar, Member
7. Sh. C B Singh, SE CPWD
8. Sh. P K Srivastava, Member Secretary

Special Invitee

9. Sh D S Bhui, Consulting Architect (via video conferencing)
10. Sh N K Bansal, SE CPWD

B.W.C 21-14-01	:	<u>Welcome Address by the Chairman:</u>
		The Director welcomed all the members to the 14th meeting of B&WC. In continuation, the Director informed that one new member Prof Chanchal Kumar has joined as a Board nominee to the B&WC. The Director also welcomed two special invitees Sh N K Bansal and Sh D S Bhui to the meeting. The Director suggested that PMC (CPWD) and Architect will henceforth be attending all the future B&WC meetings as special invitee, during the phase of construction of Hostels 3 and 4.
B.W.C 21-14-02	:	<p>Confirmation of the Draft Minutes of the 13th Meeting of the Building & Works Committee, IISER Mohali held on 01.02.2021:</p> <p>The Draft Minutes of the 13th Meeting of the Building & Works Committee held on 01.02.2021 were circulated to all the members vide mail dated 18.02.2021. No comments were received. The Building & Works Committee is requested to kindly confirm the Draft Minutes of its 13th Meeting held on 01.02.2021.</p>
Decision		The B&WC confirmed the minutes of its 13th meeting held on 01.02.2021.
B.W.C 21-14-03		Action Taken Report of the Draft Minutes of the 12th Meeting of the Building & Works Committee held on 14.07.2020

		Item No.	Agenda	Action Taken
		B.W.C.21.13.04	Arbitration and court cases (C/o 2 nos of Hostels 6&8) for arbitration award of Rs 2,28,54,395/-	<p>After the approval of the Finance Committee, Rs 2.28 Crore was deposited with CPWD, so as to avoid penal interest. Comments of CPWD regarding not challenging of said award obtained vide letter no 454 dated 05.03.2021 (Annex-II).</p> <p>The details of arbitration cases as being dealt by CPWD is appended as Annex-III.</p>
		Decision	<p>1. The decision of the Special meeting of the Finance Committee dated 18.02.2021 has to be complied in future Arbitration as reproduced below:-</p> <p>a). The Finance Committee has resolved that the matter may be taken up with the CPWD to obtain all the relevant documents presented by the CPWD during arbitration process and also the grounds for not challenging the arbitration award in the court of law. A report in this regard may be presented by the Institute in the next meeting of Finance Committee.</p> <p>b). The Finance Committee has also resolved that in future, the MoU, if any, to be</p>	

		<p>signed between IISER Mohali and CPWD for construction of buildings/ services, it should have suitable safeguards to minimize the chances of arbitration and should preferably have a provision which keeps the Institute informed about the arbitration proceedings should they arise.</p> <p>2. In all future arbitration cases, CPWD must inform the Institute about such arbitrations vis-à-vis the claims of contractor, etc.</p> <p>3. It was observed that in Arbitration case of Shopping Centre-II, that as the date of completion was 2011, the Institute should ask CPWD to check whether arbitration in this case is time barred. No hearing has been conducted after March 2020, which may entail increase in interest, if Arbitration award goes against CPWD. They (CPWD) must be asked to expedite hearing and inform Institute accordingly.</p>	

B.W.C 21-14-04	<p><u>Construction of two new Hostels</u></p> <p>A meeting was held with CPWD and consulting Architect on 23.07.2021 to set the roadmap for the Construction of two new Hostels. Following milestones have been finalized as the outcome of the meeting</p> <ul style="list-style-type: none"> •Submission of architectural drawings in Auto-CAD mode by architect to IISER Mohali to be forwarded to CPWD : Before 30.07.2021 •Submission by Architect of tender drawings : 8 – 10 weeks (by 15.09.2021) •Proof-vetting of the tender drawings by IISER through IIT followed by submission of approved drawings to CPWD : 6 weeks (by 30.10.2021) •Preparation of tender documents and issue of advertisement by CPWD after receipt of approved drawings from IISER : 6 weeks (by 15.12.2021) • Submission of GFC drawings by architect to IISER and forwarding to CPWD : by 15.01.2022 •Opening and evaluation of technical and financial bids : 25.01.2022 •Award of work by CPWD to Contractor under EPC mode –III :by 15.02.2022 •Expected date of handing over of hostels to IISER : July 2023. <p>In line of above decisions, Architectural drawings in Auto-CAD has been received from consulting Architect on 23.07.2021 and the same has been transmitted to CPWD on the same date. CPWD has been asked to map the layout plan of two Hostels on the proposed site of construction, so as to remove any encumbrances, if any before construction. MOU has been signed with CPWD on 16.06.2021.</p> <p>Further, IISER has approached IIT Roorkee for Proof checking of structural drawings.</p> <p>As per communication received from Ministry of Education (MoE), laying of foundation stone by Hon'ble Minister (MoE)for the Construction of two new Hostels has been finalized for September, 2021, for which the final date shall be decided in conjunction with the Ministry.</p>
Decision	<p>Architect will provide tender drawings by 15.09.2021. Pile load test as per NBC code to be conducted by CPWD before sending Structural Drawings for proof checking to IIT, Roorkee. GFC drawings to be provided by the Architect latest by 31.12.2021 instead on 15.01.2022. Price bid to be opened by CPWD latest by 25.01.2022. B&WC recommends that M/s Cosmic Designs must remain in contact with IIT, Roorkee for the ease of proof checking and better coordination.</p>

For Information of B&WC		
B.W.C 21-14-05		1. The Institute has obtained the Fire NOC from Fire Department, Punjab. All measures, as being suggested by the Fire Department, Punjab are being implemented with special emphasis on detection system and rectification of leakages in hydrant network. All fire extinguishers (about 100) which have failed in hydraulic testing have been replaced by the new ones.
		Committee recommends Institute to follow all observations of Fire department and to ensure all system are tested for operation and functionality for both fire detection and hydrant system. The members requested Institute to implement measures that will help in establishing system to intelligent mode. Members further suggested that as per the recommendation of Fire Department, Punjab, Institute must attempt to make provision to deploy adequate number of qualified firemen (14 in number).
		2. The Institute has obtained NOC (Consent to Establish) for 2 new Hostels.
		Noted
		3. The Institute has obtained Consent to Operate (CTO) under Water & AIR act of Punjab Pollution Control Board for a period of 3 years i.e, upto 31.03.2024.
		Noted
		4. The Institute has set up temporary fire safety room at the Main Gate as per the recommendation of Fire Safety Committee of IISER Mohali amounting to Rs 8.38 Lakh
		Noted
		5. The Institute is undertaking the repair & maintenance of civil work for amounting to Rs 7.50 lakh.
		Noted
		6. The Institute has established open gym in sports area amounting to Rs 6.83 Lakh.
		Noted

		7. All non working flood lights and court lights in Sports Complex have been replaced amounting to Rs 8.28 Lakh.
		Noted
		8. The Institute has undertaken the annual repair of lab infrastructure amounting to Rs 7.29 Lakh.
		Noted
		9. The Institute has undertaken the replacement of chemical filters in Animal Facility amounting to Rs 14.65 Lakh.
		Noted
		10. The Institute has awarded the work for fencing on boundary wall sharing with ISB amounting to Rs 6.26 Lakh.
		Noted
		11. The Institute has taken rectification of floor tile work in lecture Hall Complex amounting to Rs 3.86 Lakh.
		Noted
		12. The Institute has setup few labs of new faculty as per the requirement as below:- a. Lab of Dr Tripta Bhatia amounting to Rs 6.74 Lakh b. Lab of Dr Jogender Singh, Dr Suman K Barman and Dr Sourabh Bhattacharya amounting to Rs 4.56 lakh
		Noted
		13. The Institute has undertaken certain repair work(s) of lab infrastructure, which recently has been damaged by the storm amounting to Rs 4.34 Lakh
		Noted
		14. The Institute has awarded CMC's, which has recently expired, of all electro mechanical equipments.
		Noted
		15. The Institute shall undertake certain work pertaining to filtration of exhaust system of Animal Facility & Research Labs by way of replacement of filters and PHI cells.
		Noted

	16. The Institute has taken steps for adoption of Harmonized guidelines and space standards for barrier free built environment for person with disabilities such as accessible approach, accessible reception/ corridor/ toilets, colour contrasting strips, tactile flooring, durable railing along with staircase, lift with braile/ auditory commands, etc.
	Noted
	17. The Institute has awarded operation work for Sub Stations, Pump houses, STP's & centralized AC plant.
	Noted
	18. The Institute is in process of converting single occupancy room to double occupancy in existing Hostels by putting bunk beds, installing wall mounted fans and furniture, etc
	Noted
	19. The Institute is in process of taking appropriate measures regarding water and energy conservation
	Members suggested that Institute must adopt Energy Efficient Luminaries wherever possible, which can give return in 5 years period as a pay back based on benefit cost ratio.
	20. The Institute has taken steps for plantation of 350 trees during the current monsoon
	B&WC suggested to explore possibility of planting herbal/medicinal plants.
B.W.C 21-14-06	Any other item with the permission of the Chair:
Agenda	
Decision	The meeting ended with the vote of thanks to the chair

(P.K. Srivastava)
Member Secretary, B&WC

Career Advancement Scheme for Faculty at IISER Mohali

Broad Guidelines for a Faculty Career Advancement Scheme at IISER Mohali:

The central philosophy of this scheme is to facilitate career advancement of faculty members, from Assistant Professor to Associate Professor and from Associate Professor to Professor, based on their academic excellence in research and teaching, of a standard that is expected to be not inferior to that of a direct recruit to the same position. Due consideration will also be given to their service to the Institute and contribution to Institution building, including curriculum development, innovation in pedagogy, student welfare, science outreach and administrative roles. Consideration will also be extended to new faculty members taking into account the time taken to adapt to the rigors of teaching and to initiate research activity. This procedure would not preclude an existing faculty member from applying for the higher position also through open advertisement.

The Institute is committed to a transparent process, based on merit and equal opportunity for all faculty members. It will strive to be aware of, and appreciate the diversity in the nature of the research pursued by faculty members, as well as the different yardsticks used to measure the quality of research in different fields. The Institute is also sensitive to the wide variety of activities that may be considered as service to the Institute in the broadest sense.

Career advancement of a faculty member is to be considered as the individual having to assume additional responsibilities (including administrative) in the new position.

Career Advancement of Assistant Professor to Associate Professor, and of Associate Professor to Professor

The residency period in the grade of Assistant Professor or Associate Professor for advancement to the next higher grade would ordinarily be six years. Faculty members may submit an application, a few months prior to completion of their residency period, to the Office of the Dean Faculty or Deputy Director, in order to initiate the process of consideration for the higher grade. This application will consist of a self-appraisal form along with the names, contact address of at least six referees (national and international) along with their domain of expertise, who can critically assess their potential and performance. If a faculty member thinks that his/her performance has been extraordinary, he/she may apply for career advancement earlier than the norms but not less than as stipulated in the direct recruitment along with a justification for doing so.

The Committee of Professors of the Institute (COP), or an Institute Faculty Advisory Committee (IFAC) chaired by the Dean Faculty or Deputy Director, duly constituted by the Director (giving due consideration to possible conflicts of interest), will scrutinize the application, and recommend to the Director whether the performance of the concerned faculty member is appropriate for a position at a higher grade. Based on a positive recommendation from the Committee, the Director shall seek assessments from a minimum of six referees, at least two of whom are to be from the list submitted by the faculty member. The process will move forward on the receipt of at least five referees' reports, not less than two of which are from international experts.

Evaluation of candidatures of faculty members for the higher grade shall then be undertaken by a duly constituted Assessment Committee. The Assessment Committee for each applicant

shall be comprised of:

(i) a Core Assessment Committee (common for all the applicants across different Departments) that includes the Director, Deputy Director (if available), one Professor of the Institute, and six external persons of eminence – one each from the disciplines of Physics, Chemistry, Biology, Mathematics, Earth and Environmental Sciences, and Humanities and Social Sciences; and

(ii) at least three external subject-specific experts nominated by the Director and drawn from the panel of Board of Governors (Board)-approved experts for different disciplines.

The Chairperson of the Assessment Committee shall be one of the external persons of eminence of the Core Assessment Committee. The Chairperson and all members of the Core Assessment Committee are to be nominated by the Board, with a term of three years.

The Director may also invite the Head of the relevant Department, a Professor from the concerned department or a Professor from another department to be a member of the Assessment Committee. In case the Head of the Department of the relevant Department is not a Professor, he/she may only be invited to serve in the Committee for the advancement of an Assistant Professor to Associate Professor.

The Assessment Committee will be provided all the comments of the internal committees as well as the referees' reports. Faculty being assessed for advancement will be invited for interaction with the Assessment Committee. The report of the Assessment Committee shall be submitted as a recommendation of the Director (as per clause 16(1) of the IISER Statutes) to the Board for its approval.

In the event of a negative recommendation from the COP/IFAC (which is to be based on a consensus or majority opinion of members present), the Committee must provide adequate justification for the same. This report will be shared with the faculty member. If, despite the negative recommendation, the faculty member requests the Director that their case be put up to the Assessment Committee, the Director shall obtain referees' reports and arrange for the Assessment Committee meeting for the faculty member as above. In this situation, if the Assessment Committee does not recommend advancement, the concerned faculty member will not be permitted to request for a subsequent performance assessment process in the next two years. No embargo on the internal assessment process holds if the case is not presented to the Assessment Committee, following a negative recommendation of the COP/IFAC.

It is to be noted that this career advancement scheme is not pyramidal, and enables each individual faculty member to continue forward on their individual track.

Evaluation Criteria:

The following parameters are to be considered for evaluation of faculty members for career advancement. Depending on the level, a different weightage may be set for each of the following factors that will be considered:

- The minimum eligibility criteria, as specified in the advertisement on the Institute's website for open selection at different levels, has to be met.
- Research accomplishment at international standards of excellence

- Consistent excellence in class room and laboratory teaching
- Evidence of successful mentorship, such as guidance of Masters and PhD students, as well as postdoctoral fellows
- Contribution to curriculum, course development, innovation in pedagogy etc.
- Award of external competitive research grants
- Awards/fellowships/elected memberships of professional bodies
- Invited talks in national and international research conferences/symposia/workshops
- Professional activities outside the Institute
- Service to the Institute and contributions to Institute building activities