



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय भारत सरकार द्वारा स्थापित

सैक्टर-81, नॉलेज सिटी, 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 46th Meeting of the Board of Governors of IISER Mohali held on 24th December 2021 at 10.30 A.M. in the Board Room, Administrative Building, IISER Mohali in Hybrid Mode.

The following were present in the meeting

1.	Professor Ajay Sood Chairperson, BOG IISER Mohali	Chairperson
2.	Sh. Dhiraj Ranjan, Under Secretary On behalf of the Additional Secretary (TE) Ministry of Education, New Delhi	Member
3.	Dr. Jatinder Kaur Arora Nominee of the Chief Secretary, Govt. of Punjab	Member
4.	Professor Govindan Rangarajan Director, Indian Institute of Science, Bangalore	Member
5.	Professor Rajeev Ahuja Director IIT Ropar	Member
6.	Dr. Madhu Dikshit National Professor Pharmacology, CSIR-CDRI, Lucknow	Member
7.	Professor J. Gowrishankar Director IISER Mohali	Member
8.	Professor Sanjay Mandal Professor, IISER Mohali	Member
9.	Professor Chanchal Kumar Professor, IISER Moahli	Member
10.	Prof. Jagdeep Singh Registrar IISER Mohali Email: registrar@iisermohali.ac.in	Secretary
Special Invitee		
1	Professor Sudeshna Sinha Deputy Director, IISER Mohali	Special Invitee

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

1.	The Secretary Ministry of Micro, Small & Medium Enterprises, New Delhi	Member
2.	The Secretary Department of Biotechnology, New Delhi	Member
3.	Ms Darshana M Dabral Joint Secretary & Financial Adviser Ministry of Education, New Delhi	Member

Item No	Agenda
B.O.G.21.46.01	Welcome Remarks by the Director and Director's Report
	<p>The Director welcomed the Chairperson and all the Members of the 46th Meeting of the BoG. Subsequently he presented the progress of the Institute in a form of Power Point Presentation.</p> <p style="text-align: right;">Annexure I (Page No.1-23)</p>
	<p>The Chairperson and the other members congratulated the faculty and students who have won awards, published papers.</p> <p>They specially congratulated BS-MS students who co-authored research publications in reputed journals. The Chairperson and Members appreciated the progress of the Institute despite the financial crunch and pandemic affects.</p>
B.O.G.21.46.02	Opening Remarks by the Chairperson
	The Chairperson welcomed all the Members of BoG and also expressed great concern over the financial and staff constraints which the Institute is facing due to delays in posts/RRs and paucity in release of grant-in-aid from the Ministry. He exhorted the representative of Ministry(MOE) that this is a very serious matter and asked him to take it up the matter with the concerned authorities at the earliest because the Institute cannot afford to postpone the situation further, which may become unmanageable later.
B.O.G.21.46.03	Confirmation of Draft Minutes of the 45th BOG held on September 7, 2021
	<p>Draft Minutes of the 45th Meeting of the BOG held on 07.09.2021 were circulated. No comments have been received. (Annexure 1, Page No.: 1-17 of the Agenda)</p> <p><u>For Confirmation please.</u></p> <p><u>Comments of the IFD: confirmed as per deliberations</u></p>
Decision	Confirmed

Item No	Agenda		
B.O.G.21.46.04	Action taken Report on the Draft Minutes of the 45 th Meeting of the BOG held on September 7, 2021		
	The Action taken Report on the items requiring follow up action on the decisions of the 45th Meeting of the BOG held on September 7, 2021 is as follows, and placed for consideration of the Board of Governors.		
	Item No.	Agenda	Action Taken
	B.O.G.21.45.01	Welcome Remarks by the Director and Director’s Report	
	B.O.G.21.45.02	Opening Remarks by the Chairperson	
	B.O.G.21.45.03	Confirmation of Draft Minutes of the 44th meeting of the BOG, IISER Mohali held on June 22, 2021	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	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:	Noted
	F.C.21.37.06	Separate Audit Report of the CAG on the Accounts of IISER Mohali for the year ended 31st March 2020	Institute has sent a letter to MoE for their advice
	F.C.21.37.07	Payment of half-fellowship for six months to students of Int. Ph.D	BOG Notification issued.
	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	BOG Notification issued.
	B.O.G.21.45.06	Items arising from the 48th Senate meeting to be held on 31.08.2021	BOG Notification issued for Award of 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	Noted.
	B.O.G.21.45.08	Meeting of the Research Advisory Committee (RAC)	Approved
	B.O.G.21.45.09	Annual Report for the year 2020-21	Noted.
	B.O.G.21.45.10	MoU signed between Ministry of Education, GoI and IISER Mohali for FY 2021-22:	Noted.
	B.O.G.21.45.11	Approval of voluntary retirement of Dr. S K Arun Murthi, Assistant Professor under VRS:	Approved
	B.O.G.21.45.12	Career Advancement Scheme for faculty at IISER Mohali	Noted for compliance.
	B.O.G.21.45.13	Grant of MACP to eligible non-faculty employees	Noted for compliance.
	B.O.G.21.45.14	Appeal from Shri Bipul Kumar Chaudhary, former Assistant Registrar, for settlement of dues	Noted for compliance.
	Ratification:		
	B.O.G.21.45.15	Selection of Resident Medical Officer (Lady)	Ratified.

Item No	Agenda		
	B.O.G.21.45.16	Appointment of Deputy Registrar (F&A)	Ratified
	B.O.G.21.45.17	Nomination of BoG members to B&WC	Ratified.
	Reporting:		
	B.O.G.21.45.18	Financial position as on 27.08.2021:	Noted.
	B.O.G.21.45.19	Status of filling up of backlog vacancies of the SC/ST/OBC/EWS:	Noted.
	B.O.G.21.45.20	Pending Items of the previous BoG meetings:	Noted.
	B.O.G.21.45.20	Any Other Items with the Permission of Chair	-
	<u>Comments of the IFD: May be reported.</u>		
Decision	Noted.		
FOR CONSIDERATION AND APPROVAL			
B.O.G.21. 46.05	Items arising from the 38 th Meeting of the Finance Committee held on December 23, 2021		
F.C.21.38.05	Reimbursement regarding medical bill of Dr. Arunika Mukhopadhyay		
	<p>Prof. Kausik Chattopadhyay, has taken medical advance of Rs.2,07,000/- for the surgery of his wife Dr. Arunika Mukhopadhyay who is also a faculty in the Department of Biological Sciences at IISER Mohali. The total expenditure for the surgery, hospitalization and medicine etc was Rs.1,19,493/-. Now, Prof. Kausik has submitted the medical bills for adjustment of the expenditure for surgery.</p> <p>The bill was forwarded to Dr. Gurpreet Singh, CMO for scrutiny/verifying the adjustment of medical bill. Dr. Gurpreet has made following observations on 1.11.2021: -</p> <p>(i) The patient has undergone NEOCYSTOSTOMY with PSOAS HITCH.</p> <p>(ii) The said procedure is not present in the list of approved procedure of CGHS, while the IISER Mohali is reimbursing the medical claims as per CS(MA) Rules/CGHS Rates as approved by the Board of Governors.</p> <p>Subsequently the applicant submitted more documents wherein it was shown that the said procedure is available in the Haryana Government list of procedures.</p> <p>On the recommendation of the Finance Committee the Board of Governors is requested to adopt rates of Haryana or any other State</p>		

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	<p>if that procedure is not there in the list of procedure as approved by CGHS.</p> <p><u>Comments of the IFD: May be considered as per deliberations.</u></p>
Decision	<p>On the recommendation of the Finance Committee the Board resolved that in case of conservative treatment where there is no CGHS package rate, calculation of admissible amount would be done item wise as per CGHS rates or as per AIIMS rates (as provided in the CS(MA) Rules). If the procedure is not listed even in AIIMS rates, then rates of PGIMER Chandigarh will be adopted.</p>
F.C.21.38.06	<p>Special Honorarium of Rs. 15,000/- per month to Prof. Kapil Hari Paranjape, Professor, Deptt. of Mathematical Sciences as Shanti Swarup Bhatnagar ((SSB) Award</p>
	<p>As per the current UGC Guidelines special honorarium of Rs. 15,000/- per month is given to the teachers of the Universities who are S.S. Bhatnagar Prize winners or are fellows of at least two of the following Science Academies,</p> <ol style="list-style-type: none"> 1. National Academy of Science, Allahabad 2. Indian Science Academy, Bangalore 3. Indian National Science Academy, New Delhi 4. Indian National Science Academy of Engg., New Delhi <p>There is no specific approval to pay such honorarium to faculty of IISERs. However, IISER Behrampur is giving special honorarium to its faculty based on the above guidelines.</p> <p>The Board is requested to approve the payment of special honorarium to faculty who are Shanti Swarup Bhatnagar Awardees or are fellows of at least two of the four Academies as listed above.</p> <p>The Honorarium of Rs. 15,000/- per month shall be paid until the person attains the age of 65 years or attains superannuation whichever is earlier.</p> <p><u>On the recommendation of the Finance Committee, it is submitted to the Board for its consideration and approval</u></p> <p><u>Comments of the IFD: May be considered as per deliberations</u></p>
Decision	<p>On the recommendation of the Finance Committee, the Board approved the payment of special honorarium of Rs.15000/- per month to the awardees of S. S. Bhatnagar Award or being fellow of any two of the four Academics mentioned above.</p>

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	The Board further resolved that the faculty members, who have so far been paid honorarium on account of the above mentioned clause will continue to get honorarium as before. For those faculty who have not been so paid the honorarium payments would be implemented from 01.01.2022 onwards.
F.C.21.38.07	Regarding Fellowship to Students from OH-31
	<p>The Board of Governors had approved payment of Merit-cum-Means Fellowship to needy BS-MS students from IRG in its 40th Meeting held on 18.08.2020 on the recommendation of the Finance Committee.</p> <p>On enquiring from other institutions, it is found that such fellowships are being paid from Grant-in-Aid –General (OH-31).</p> <p><u>On the recommendation of the Finance Committee, it is submitted to the Board for its consideration and approval</u></p> <p><u>Comments of the IFD: May be considered as per deliberations.</u></p>
Decision	Since the Finance Committee did not approve the payment of Fellowship from OH-31, the Board resolved not to pay Merit-cum-Means fellowship from OH-31
REPORTING	
F.C.21.38.08	Approval of Global Tender Enquiry Proposals by Ministry of Education
	<p>The Institute has to send all the Global Tender Enquiry (GTE) proposal to the Ministry for its approval, as Ministry vide its letter no. 1-15/201/-TS.I Part 2 dated 29.01.2021 conveyed that above Rs.5 lakh GTE proposals are to be submitted to the Ministry for seeking the approval of Secretary, Department of Higher Education, Ministry of Education.</p> <p>Accordingly, the Institute had submitted the following proposal for approval</p> <ol style="list-style-type: none"> 1. Channel NMR Spectrometer with Accessories for Rs. 2.25 crore : 1 Proposal 2. Fluid Inclusion Hearing –Freezing Stage for Rs.13 lakhs : 1 Proposal 3. Advanced Petrological Microscope and Camera suited for fluid inclusion studies for Rs.36 lakhs : 1 Proposal 4. Optical Table with Accessories for Rs.15 lakhs: 1 Proposal

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	<div>5. EM ICCD Camera with dedicated software for Rs.90 lakhs : 1 Proposal</div> <div>6. Micro Manipulator for fixing manipulator Left and Right through CPP Portal for Rs.25 lakhs : 1 Proposal</div> <div>7. Mice Cages Assembly for existing AHUs for Rs.18 lakhs: 1 Proposal</div> <div>8. 3 Channel 500 MHZ NMR Spectrometer with Accessories for Rs.6 Crores : 1 Proposal</div> <div>9. Caenorhabditis elegans RNAi Collections for Rs.10 lakh: 1 Proposal</div> <div>10. MOES for Rs.: 4.90 crore: 1 Proposal</div> <div>11. QUEST for Rs.20 lakhs : 1 Proposal</div> <div>The Ministry has conveyed its approval for the above mentioned GTE Proposals.</div> <div><u>The Finance Committee recommended to the Board for Reporting as Ministry vide its letter/s F.No.51-16/2020-TS-VII dated 18.12.2021 and subsequent letter No.1-15/2017 IS.I Part (2) dated 29.01.2021 conveyed that the said approval are required to be placed as Reporting Items in ensuing BOG of IISER Mohali.</u></div>																																				
Decision	Noted.																																				
F.C.21.38.09	Financial Position as on 24.12.2021																																				
	<table><tr><th colspan="6">(Rs.in lakhs)</th></tr><tr><th>Particulars</th><th>Opening Balance</th><th>Grant-in-aid received</th><th>Total Available</th><th>Expenditure</th><th>Balance</th></tr><tr><td>(A) General OH31</td><td>764.72</td><td>2000.00</td><td>2764.72</td><td>3169.55</td><td>-404.83</td></tr><tr><td>(B) Capital OH 35</td><td>131.08</td><td>925.00</td><td>1056.08</td><td>632.46</td><td>423.62</td></tr><tr><td>(C) Salary OH 36</td><td>1087.53</td><td>2542.00</td><td>3629.53</td><td>2725.65</td><td>903.88</td></tr><tr><td>(D) Grand Total</td><td>1983.33</td><td>5467.00</td><td>7450.33</td><td>6527.66</td><td>922.67</td></tr></table> <div>Comments of the IFD: <u>May be considered as per deliberations.</u></div>	(Rs.in lakhs)						Particulars	Opening Balance	Grant-in-aid received	Total Available	Expenditure	Balance	(A) General OH31	764.72	2000.00	2764.72	3169.55	-404.83	(B) Capital OH 35	131.08	925.00	1056.08	632.46	423.62	(C) Salary OH 36	1087.53	2542.00	3629.53	2725.65	903.88	(D) Grand Total	1983.33	5467.00	7450.33	6527.66	922.67
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Decision	<p>The Grant-in-aid to IISER Mohali for FY 2021-22 has been reduced to Rs.85.00 crores from the previous year’s allocation of Rs.105.00 crores. This shortfall of Rs.20.00 crores has put a constraint on the day to day expenditure of the Institute.</p> <p>The expenditure on just three most essential items is Electricity Bill, Fellowship and Payment of wages to the outsourcing staff is Rs.2.25 crores per month. In view of the shortfall in the release of funds in Financial Year 2021-22, the Institute has so far spent Rs.4.0 crores from IRG and another expenditure of Rs.2.0 crores is committed. If this trend of release of grant-in-aid continued, then the Institute will exhaust its total IRG and will not be in a position to pay even the Electricity Bill.</p> <p>The Chairperson also expressed his views that this is very serious situation with respect to financial management of the Institute and it will have long term repercussion on the quality and stability of the institute.</p> <p>So far if we look at the release of funds to IISER Mohali, it is not in tune of the allocation made for the financial year 2021-22.</p> <p>On the recommendation of the Finance Committee recommended the Board requested to the Ministry of Education to at least release grants as per the allocation so that the quality of teaching and research in the institute may not be affected.</p> <p>The Chairperson exhorted representative of the Ministry to take up the matter. It was informed by the representative of Ministry as and when they get formal approval of Revised Estimate(RE) the revised grant will be released to the Institute.</p>															
B.O.G.21.46.06	Items arising from the 49 th Senate held on 22.12.2021															
Senate 21.49.04	Students fulfilling the requirements of BS-MS Degree:															
	<p>The Senate recommended following students for award of BS Degree to the Board for its approval:</p> <p>MS16 Batch:</p> <table><tr><th>S. No.</th><th>Name</th><th>Reg. No.</th><th>Subject</th><th>CPI</th></tr><tr><td>1.</td><td>Surajmal Nain</td><td>MS16043</td><td>CHM</td><td>8.6</td></tr><tr><td>2.</td><td>Chetan</td><td>MS16147</td><td>CHM</td><td>7.0</td></tr></table> <p><u>On the recommendation of the Senate, it is submitted to the Board of Governors to accord its approval for awarding the BS-Ms Degree to the above students.</u></p>	S. No.	Name	Reg. No.	Subject	CPI	1.	Surajmal Nain	MS16043	CHM	8.6	2.	Chetan	MS16147	CHM	7.0
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1.	Surajmal Nain	MS16043	CHM	8.6												
2.	Chetan	MS16147	CHM	7.0												

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Decision	On the recommendation of the Senate, the Board resolved to award the BS-MS Degree to the above students.								
Senate 21.49.05	Request of student to exit with BS degree and fulfilling the requirements of BS Degree:								
	<p>The Senate recommended following student for award of BS Degree to the Board for its approval:</p> <p>MS15 Batch:</p> <table><tr><th>S. No.</th><th>Name</th><th>Reg. No.</th><th>CPI</th></tr><tr><td>1.</td><td>Anuraag Jha</td><td>MS15134</td><td>8.2*</td></tr></table> <p><i>*CPI is calculated as per BS degree requirements (139 credits)</i></p> <p><u>On the recommendation of the Senate, it is submitted to the Board of Governors to accord its approval for awarding the BS Degree to the above student.</u></p>	S. No.	Name	Reg. No.	CPI	1.	Anuraag Jha	MS15134	8.2*
S. No.	Name	Reg. No.	CPI						
1.	Anuraag Jha	MS15134	8.2*						
Decision	On the recommendation of the Senate, the Board resolved to award the BS Degree to the above student.								
B.O.G.21.46.07	Approval for IISER Bhopal Recruitment Rules to fill up the remaining Non-Faculty Positions								
	<p>The matter of the inability of the Institute to conduct recruitments to non-teaching positions for several years in the absence of approved Recruitment Rules has been repeatedly brought to the attention of BOG in the past.</p> <p>On the direction of the Ministry of Education a committee was constituted to frame Common Recruitment Rules (CRR) for non-faculty for all the IISERs. Subsequently Ministry of Education constituted a committee of all the Directors under the Chairmanship of Prof. Ajay Sood, Chairman BoG, IISER Mohali and IISER Bhopal to give their recommendations on the Common Recruitment Rules proposed earlier. Prof. Ajay Sood Committee had submitted their recommendations to the Ministry of Education. Since IISER Mohali has sanctioned strength of 96 positions of non-faculty and only 39 persons are in position compared to 106 faculty and around 1800 students. There is a</p>								

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	<p>desperate need to fill the positions of non-faculty position. or the smooth functioning of the institute. IISER Bhopal has an approved compendium of Recruitment Rules and it is accordingly requested that IISER Mohali be permitted to fill up the remaining non-faculty positions using IISER Bhopal recruitment rules. As and when the CRR are approved by Ministry of Education the same will be implemented by substituting for IISER Bhopal Recruitment Rules.(Annexure II at Page No. 18-95 of the Agenda)</p> <p>It is submitted for the consideration and approval of the Board.</p> <p><u>Comments of the IFD: RRs are pre-requisite for filling up any post. First RRs may be got approved in the Ministry and adopted before considering filling up the sanctioned vacant posts.</u></p>
Decision	<p>The BOG put on record that as per the Statutes of IISERS and the power to make recruitment rules is vested with BOG. The Ministry can give their inputs on the Rules, to be adopted by BOG. The BOG expressed its great concern that there are no approved recruitment rules at IISER Mohali for the past two years due to which the Institute is unable to fill the vacant positions of the non-faculty which is severely affecting the efficiency of the Institute.</p> <p>The BOG resolved to approve Recruitment Rules of IISER Bhopal as a purely interim measure to fill up non-faculty positions till the time the CRR are approved by the Ministry and adopted by the BOG.</p>
B.O.G.21.46.08	Proposed qualification of Physical Education Instructor
	<p>The Institute has received representation regarding qualification of Physical Education Instructor (PEI) in IISER Mohali. In the representation it has been submitted that in other IISERs like IISER Tirupati for Physical Education Instructor they have Essential Qualification as under:</p> <p>(i) First class Bachelor Degree in Physical Education having six years of experience as Students Activity and Sports assistant.</p> <p>In IISER Bhopal, for Physical Education Instructor they have Essential Qualification as under:</p> <p>(i) Master Degree in Physical Education and Sports or Sports Science with 55% marks. (or an equivalent grade in a point-scale, wherever grading system is followed).</p>

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	<p>(ii) Passed the physical fitness test in accordance with the relevant regulations of UGC.</p> <p>Whereas IISER Mohali has advertised the Post of PEI, based on Draft CRR with essential qualification as under:</p> <p>(i) Master Degree in Physical Education and Sports or Sports Science with 1st Class or 50%(or an equivalent grade in a point-scale, wherever grading system is followed).</p> <p>(ii) Diploma in coaching from NIS from any equivalent institute.</p> <p>(iii) Should qualify in the physical fitness test in accordance with the relevant Regulation of UGC as a part of selection process.</p> <p>It has been represented that the qualification as NIS Diploma is required only for national or state level coaches whereas in IISER Mohali we need Physical Education Instructor for routine physical activity of the students apart from games. So it is requested that the recruitment rules may be modified and made similar to at IISER Bhopal.</p> <p>It is submitted for the consideration and approval of the Board.</p> <p><u>Comments of the IFD: Guidelines issued by the MoE may be followed with regard to PEI.</u></p>
Decision	<p>It was informed by the Registrar that so far the Institute could not locate the guidelines issued by the MoE regarding PEI, and he requested the representative of MoE to supply the institute with the guidelines of MoE regarding PEI. The Ministry representative is requested to make the amendments to CRR accordingly in regard to PEI.</p> <p>The BoG resolved that a letter may be sent by the Institute to MoE to request for suitable amendments to CRR with regard to PEI.</p>
B.O.G.21.46.09	<p>To provide 250 Sq. M. Office Space to CIC (Chandigarh Region Innovation Cluster)</p>
	<p>The Administration of Union Territory of Chandigarh has proposed to establish a Chandigarh Innovation cluster in collaboration with the leading institutions of Tricity like IISER, IIT, PU, PEC, NIPER, SCL, TBRL, NABI, INST AND ISB. It has been decided that a Section -8 Company will be established to start the activities. All the proposed members of the committee have requested IISER Mohali to provide office space for the same.</p> <p>The Institute has provisionally offered an office space of around 250 Sq.m. on the 1st floor of the Administrative Block at a monthly rent of Rs. Rs.200 per Sq.m(total approximately Rs. 50,000/-), subject to approval by the Board</p> <p><u>The BOG is requested to consider and approve the proposal to lease 250 Sq.m. office space to CIC at a monthly rent of Rs.200 per Sq.m.</u></p>

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	<u>Comments of the IFD: May be considered. However, the monthly rent rate @Rs.200 per sq.m. may be discussed taking into consideration of commercial rates in the area.</u>
Decision	The Board noted that there is shortage of space for the faculty offices as well as their laboratories, hence the Board of Governors decided not to approve the lease of space to CIC at present.
B.O.G.21.46.10	Approval for Contractual Appointment of Technical Staff (JTA/TA/STA)
	<p>The Institute has several sophisticated instrument facilities which are operating very well and have been key to the successful research accomplishments of the faculty. These include equipments for flow cytometry and cell sorting, confocal microscopy, spectroscopy, mass spectrometry, X-ray diffraction, and so on. However, the operation of these instruments is being done either by outsourced staff or by faculty/students, which is not an optimal arrangement.</p> <p>Accordingly, it is proposed to appoint (based on IISER Bhopal RRs) up to four technical staff on contract (at the level of Junior Technical Assistant/Technical Assistant/Senior Technical Assistant). These posts are amongst the 85 which have previously been recommended by the BoG and are pending approval from the Ministry.</p> <p><u>It is submitted for the consideration and approval of the Board.</u></p> <p><u>Comments of the IFD: Approval of the Ministry for the posts and RRs needed before going ahead for any appointment.</u></p>
Decision	The Board recognised that there are very sophisticated equipment in the labs and that these are to be necessarily manned by technical staff not by research students. The Board resolved to approve the appointment of four (04) Technical Staff on contract for six months or till the regular positions are sanctioned and recruitment rules approved. To fill up these contractual positions the recruitment rules of IISER Bhopal will be used.
B.O.G.21.46.11	Confirmation of the Faculty members as Professors and Associate Professors
	The following faculty members had joined as Professor and Associate Professor at IISER Mohali in 2020. After completion of one year of service, their progress reports were forwarded to the Deans and Heads (in case of Associate Professors) and to the Committee of Senior Professor (in case of

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	<p>Professors) for their comments/inputs on the intention to confirm them in their respective positions</p> <p><u>PROFESSORS</u></p> <table><tr><th>S.No.</th><th>Name of the Faculty Member</th><th>Department</th></tr><tr><td>1.</td><td>Prof. Chanchal Kumar</td><td>Mathematical Sciences</td></tr><tr><td>2.</td><td>Prof. N.G. Prasad</td><td>Biological Sciences</td></tr><tr><td>3.</td><td>Prof. Kausik Chattopadhyay</td><td>Biological Sciences</td></tr><tr><td>4.</td><td>Prof. Samrat Mukhopadhyay</td><td>Biological Sciences</td></tr></table> <p><u>ASSOCIATE PROFESSORS</u></p> <table><tr><th>S.No.</th><th>Name of the Faculty Member</th><th>Department</th></tr><tr><td>1.</td><td>Dr. Varadhraj Ravi Srinivasan</td><td>Mathematical Sciences</td></tr><tr><td>2.</td><td>Dr. V. Rajesh</td><td>Humanities and Social Sciences</td></tr><tr><td>3.</td><td>Dr. Sharvan Sehrawat</td><td>Biological Sciences</td></tr><tr><td>4.</td><td>Dr. Kuljeet Sandhu</td><td>Biological Sciences</td></tr><tr><td>5.</td><td>Dr. Ram Kishor Yadav</td><td>Biological Sciences</td></tr><tr><td>6.</td><td>Dr. Shashi Bhushan Pandit</td><td>Biological Sciences</td></tr><tr><td>7.</td><td>Dr. Manjri Jain</td><td>Biological Sciences</td></tr><tr><td>8.</td><td>Dr. Mandip Singh</td><td>Physical Sciences</td></tr><tr><td>9.</td><td>Dr. Dipanjan Chakraborty</td><td>Physical Sciences</td></tr><tr><td>10.</td><td>Dr. Sabyasachi Rakshit</td><td>Chemical Sciences</td></tr><tr><td>11.</td><td>Dr Arijit K De</td><td>Chemical Sciences</td></tr><tr><td>12.</td><td>Dr. Ujjal Gautam</td><td>Chemical Sciences</td></tr><tr><td>13.</td><td>Dr. Sugumar Venkataramani</td><td>Chemical Sciences</td></tr></table> <p>As the recommendations received from the concerned members are positive in all cases, the Board of Governors is requested to consider and approve confirmation of the above faculty members.</p> <p><u>Comments of the IFD: May be considered as per the statutes of the Institute.</u></p>	S.No.	Name of the Faculty Member	Department	1.	Prof. Chanchal Kumar	Mathematical Sciences	2.	Prof. N.G. Prasad	Biological Sciences	3.	Prof. Kausik Chattopadhyay	Biological Sciences	4.	Prof. Samrat Mukhopadhyay	Biological Sciences	S.No.	Name of the Faculty Member	Department	1.	Dr. Varadhraj Ravi Srinivasan	Mathematical Sciences	2.	Dr. V. Rajesh	Humanities and Social Sciences	3.	Dr. Sharvan Sehrawat	Biological Sciences	4.	Dr. Kuljeet Sandhu	Biological Sciences	5.	Dr. Ram Kishor Yadav	Biological Sciences	6.	Dr. Shashi Bhushan Pandit	Biological Sciences	7.	Dr. Manjri Jain	Biological Sciences	8.	Dr. Mandip Singh	Physical Sciences	9.	Dr. Dipanjan Chakraborty	Physical Sciences	10.	Dr. Sabyasachi Rakshit	Chemical Sciences	11.	Dr Arijit K De	Chemical Sciences	12.	Dr. Ujjal Gautam	Chemical Sciences	13.	Dr. Sugumar Venkataramani	Chemical Sciences
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Decision	Approved.																																																									
B.O.G.21.46.12	Appointment of Faculty Members in the Department of Mathematical Sciences, Physical Sciences, Biological Sciences, Chemical Sciences and Earth and Environmental Sciences under Special Recruitment Drive for SC/ST/OBC/EWS																																																									
	The Meetings of the Selection Committee for recruitment of Assistant Professors in the Department of Mathematical Sciences and the Department of Earth and Environmental Sciences under Special Recruitment Drive for																																																									

Item No	Agenda																																													
	SC/ST/OBC/EWS, were held on 02.09.2021 and 02.11.2021 respectively. The Selection Committees had recommended the appointments of following candidates, and the Committees proceedings have been approved by the BOG Chairperson.																																													
	<table><tr><th>S.No.</th><th>Names of the Candidates</th><th>Selected as</th><th>Department</th><th>Category</th></tr><tr><td>1</td><td>Dr. Santosh Kumar Pamula</td><td>Assistant Professor</td><td>Mathematical Sciences</td><td>OBC</td></tr><tr><td>2</td><td>Dr. Ratna Pal</td><td>Assistant Professor</td><td>Mathematical Sciences</td><td>OBC</td></tr><tr><td>3</td><td>Dr. Yunus Ali Pilpadan</td><td>Assistant Professor</td><td>EES</td><td>OBC</td></tr></table>	S.No.	Names of the Candidates	Selected as	Department	Category	1	Dr. Santosh Kumar Pamula	Assistant Professor	Mathematical Sciences	OBC	2	Dr. Ratna Pal	Assistant Professor	Mathematical Sciences	OBC	3	Dr. Yunus Ali Pilpadan	Assistant Professor	EES	OBC																									
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	The Interview/Selection Process under the Special Drive in the following departments are to be held as given below:																																													
	Physical Sciences on 17.12.2021 Chemical Sciences on 20.12.2021 Biological Sciences on 21.12.2021																																													
	The proceedings of the three Selection Committees will be placed on the Table.																																													
	The Board of Governors is requested to ratify/approve the appointments of above Assistant Professors.																																													
<u>Comments of the IFD: May be considered if the appointments are against vacant posts out of sanctioned strength and reservation roster, as approved by the Ministry.</u>																																														
Decision																																														
The BoG ratified the above mentioned three appointments and further approved the appointment of the following candidates.																																														
	<table><tr><th>S.No.</th><th>Names of the Candidates</th><th>Selected as</th><th>Department</th><th>Category</th></tr><tr><td>1</td><td>Dr. Prasenjit Das</td><td>Assistant Professor</td><td>Physical Sciences</td><td>OBC</td></tr><tr><td>2</td><td>Dr. Pankaj Kushwaha</td><td>Assistant Professor</td><td>Physical Sciences</td><td>OBC</td></tr><tr><td>3</td><td>Dr. Murari Singh</td><td>Assistant Professor</td><td>Physical Sciences</td><td>SC</td></tr><tr><td>4.</td><td>Dr. Vignesh Kuduva Radhakrishnan</td><td>Assistant Professor</td><td>Chemical Sciences</td><td>OBC</td></tr><tr><td>5.</td><td>Dr. Sadhna Chandra Das</td><td>Assistant Professor</td><td>Biological Sciences</td><td>SC</td></tr><tr><td>6.</td><td>Dr. Richa Karmakar</td><td>Assistant Professor</td><td>Biological Sciences</td><td>SC</td></tr><tr><td>7.</td><td>Dr. Sushil Kumar</td><td>Assistant Professor</td><td>Biological Sciences</td><td>OBC</td></tr><tr><td>8.</td><td>Dr. Vidya Devi Negi</td><td>Assistant Professor</td><td>Biological Sciences</td><td>ST</td></tr></table>	S.No.	Names of the Candidates	Selected as	Department	Category	1	Dr. Prasenjit Das	Assistant Professor	Physical Sciences	OBC	2	Dr. Pankaj Kushwaha	Assistant Professor	Physical Sciences	OBC	3	Dr. Murari Singh	Assistant Professor	Physical Sciences	SC	4.	Dr. Vignesh Kuduva Radhakrishnan	Assistant Professor	Chemical Sciences	OBC	5.	Dr. Sadhna Chandra Das	Assistant Professor	Biological Sciences	SC	6.	Dr. Richa Karmakar	Assistant Professor	Biological Sciences	SC	7.	Dr. Sushil Kumar	Assistant Professor	Biological Sciences	OBC	8.	Dr. Vidya Devi Negi	Assistant Professor	Biological Sciences	ST
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B.O.G.21.46.13	Appointments of Assistant Registrars																																													
	The Meeting of the Selection Committee for recruitment of Assistant Registrars was held on 21.10.2021 and 22.10.2021. The Selection Committee had																																													

Item No	Agenda																		
	<p>recommended appointments of the following candidates, and the Committee’s proceedings have been approved by the BOG Chairperson.</p> <p>1. Ms Nancy Gupta 2. Ms Amandeep Saini 3. Mr Sanjeev Kumar Yadav (OBC)</p> <p>The Board of Governors is requested to ratify/approve the appointments of above Assistant Registrars</p> <p>Further, the Board is informed that all the candidates have joined their positions at IISER Mohali.</p> <p><u>Comments of the IFD: May be considered if the appointments are against vacant posts out of sanctioned strength and reservation roster as approved by the Ministry.</u></p>																		
Decision	Ratified.																		
REPORTING																			
B.O.G.21.46.14	Joining of Deputy Registrar (F & A)																		
	<p>Sh. Harjit Singh has joined the Institute on 08.11.2021 as Deputy Registrar (F & A), and he has been delegated financial power of Rs.1.5 lacs and authority to pass bills and sign the cheques.</p> <p>This is for the information of the Board</p> <p><u>Comments of the IFD: May be reported. Signing of cheques may be discouraged complying digital payments as per extant guidelines.</u></p>																		
Decision	Noted.																		
B.O.G.21.46.15	Pending Items from 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> <p><u>Comments of the IFD: May be reported.</u></p>	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.
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Item No	Agenda
Decision	Apart from the items mentioned above the Director pointed out that in the 44 th Meeting of the BOG it was informed that the matter of fellowship tenure extension for Ph.D. students of CEI for the pandemic period is being taken at the Ministry level and the same may be awaited. The BOG exhorted the representative of the Ministry to take up all the matters with the concerned authorities and expedite the cases
B.O.G.21.46.16	List of The High Court Cases with IISER Mohali as Respondent
	<p>1. Civil Writ Petition No.12657 of 2018: The petitioners are students of the Institute whose names were included in the list of “INSPIRE (SHE)” scholars dated 10.10.2017, and who have prayed for orders for payment of “INSPIRE (SHE)” fellowship to them.</p> <p>2. Civil Writ Petition No.996/2020: The petitioner is a former Assistant Professor of the Institute who has prayed for orders for the Institute to get decided the statutory departmental appeal against the order of termination dated 24.03.2011</p> <p>3-8.Six (06) Civil Writ Petition Nos.18077/2021,17267/2021, 19686/2021,19507/2021, 21651/2021 &18569/2021: In each, the petitioner is employee of the institute who has prayed for the orders by which the financial upgradation of the petitioner was withdrawn and recovery of the excess amount paid was ordered. In this petition the Hon’ble High Court issued stay orders and next hearing is on 02.03.2022.</p> <p>9. Civil Writ Petition No.10973/2021: The petitioner is Ms Lata Mukherjee who was running the Grocery Shop M/s Shiva Stores in the Shopping Complex of the institute who has prayed for the orders for rejecting her technical bids for the shops tender. The said Writ Petition has been dismissed by the Hon’ble Punjab and Haryana High Court.</p> <p>10. Civil Writ Petition No.17953/2021: The petitioner is outsourced employee who has prayed for orders for regular appointment in IISER Mohali for the post of Office Assistant against Advt. no. NF(1) 2014-15 27.06.2014.</p> <p>11. Civil Writ Petition No.14103/2021: The petitioner was a candidate for the post of Deputy Registrar who earlier filed a petition No.4796/2020 in the Hon’ble Punjab and Haryana High Court employee for not selecting him for interview. The said writ petition has been disposed off as infructuous</p>

Item No	Agenda
	on 03.09.2021. Now the petitioner again filed another Writ petition in Hon'ble Punjab and Haryana High court against selection of Deputy Registrar. <u><i>Comments of the IFD: May be reported.</i></u>
Decision	Noted
B.O.G.21.46.17	Any Other Item with the Permission of Chair
	NIL

The Meeting ended with vote of thanks.

Indian Institute of Science Education and Research (IISER) Mohali

**Presentation to the 46th Meeting of the
Board of Governors
December 24, 2021**



Faculty ➤ 104 (+ 11 more have been recruited in Special Drive;
total sanctioned = 120)

Departments

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

Students

- 836 students in the 5-year BS-MS program (~250 more are to join on 27 December 2021)
 - 95 Integrated PhD students
 - 633 PhD students
- } Total = 1800 approx.

Academics and Research achievements: September – December 2021



Academics: Teaching during pandemic period

- The Monsoon semester started completely online; subsequently, six lab courses and eight theory courses switched to hybrid mode. Semester concluded in December 2021. > 90% of students are now staying on campus.
- End-semester exams were held in person. For a small number of students who could not join in due to medical or other reasons, make-up exams are being scheduled.
- Students are being offered time to do experiments in labs during the break between semesters to make up for lost lab sessions.
- Research project studies of PhD students and of 5th year BS-MS students have continued unaffected.
- The MS20 batch is now aligned with the normal academic calendar.
- Admissions of the MS21 batch is to be completed on Dec.24, 2021. 241 students have registered till date, expected to rise to ~ 260.
- First semester for MS21 will start on Jan.3, 2022. Their program will be aligned with the regular academic calendar from their third semester in August 2022.

Selected publications

Department of Chemical Sciences:

- ★ Molecular Engineering for Discotic Nematic Mesophase and Solid-State Emitter in Deep-Blue OLEDs. (*J. Org. Chem.*, 2021, Santanu Pal, Angshuman Choudhury)
- ★ Probing Nanoscale Lipid–Protein Interactions at the Interface of Liquid Crystal Droplets. (*Nano Lett.*, 2021, Santanu Pal)
- ★ Bis(amino)cyclopropenium Ion as a Hydrogen-bond Donor Catalyst for 1,6-Conjugate Addition Reactions. (*J. Org. Chem.*, 2021, R. Vijaya Anand)
- ★ Sequential One-pot Approach for Synthesis of 2,3-Disubstituted Indoles from 2-(Tosylamino)aryl-substituted para-Quinone Methides. (*Tetrahedron*, 2021, R. Vijaya Anand)
- ★ Ligand-redox assisted nickel catalysis toward stereoselective synthesis of (n+1)-membered cycloalkanes from 1,n-diols. (*Chemical Science*, 2021, Debashis Adhikari)
- ★ Aggregation induced enhanced emission active zinc(II) β -diketiminato complexes enabling high-performance solution-processable OLEDs. (*Inorg. Chem.*, 2021, Debashis Adhikari)
- ★ Annulative Morita-Baylis-Hillman reaction to synthesise chiral dibenzocycloheptanes. (*Chem. Comm.*, 2021, S. S. V. Ramasastry)

★ BS-MS students are co-authors on these publications

Selected publications

Department of Chemical Sciences:

- Instantaneous splice and excise of inteins to synthesize polyproteins on a substrate with tunable linkers. (**Soft Matter**, 2021, **Sabyasachi Rakshit**)
- Spatiotemporal dynamics of self-assembled structures in enzymatically induced agonistic and antagonistic conditions. (**Chemical Science**, 2021, **Subhabrata Maiti**)
- Multi-stimuli Programmable RGB Absorbing Antennae Towards Ratiometric Temperature, pH and Multiple Metal Ion Sensing. (**Chemical Science**, 2021, **Sanchita Sengupta**)
- ★ Structure Property Correlation of C₁₀-(H)-Arylated-N-(pyren-1-yl)-Picolinamide Regioisomers Towards Cu²⁺ / Fe³⁺ Sensing. (**ChemistrySelect**, 2021, **S. A. Babu**, **Sanchita Sengupta**)
- Nitrogen-rich covalent organic frameworks: a promising class of sensory materials. (**Materials Advances**, 2021, **Sanjay Mandal**) – Invited Review
- Luminescent 2D Pillared-Bilayer Metal–Organic Coordination Networks for Selective Sensing of ReO₄[–] in Water. (**ACS Applied Materials Interfaces**, 2021, **Sanjay Mandal**)
- Metal-Free Triazine-Based 2D Covalent Organic Framework for Efficient H₂ Evolution by Electrochemical Water Splitting. (**ChemSusChem**, 2021, **Sanjay Mandal**)
- Cavity catalysis: modifying linear free-energy relationship under cooperative vibrational strong coupling. (**Chem. Sci.**, 2022, **Jino George**)

★ BS-MS students are co-authors on these publications

Selected publications

Department of Physical Sciences:

- Quantum imaging of a polarisation sensitive phase pattern with hyper-entangled photons. (*Scientific Reports*, 2021, Mandip Singh)
- $f(R)$ dual theories of quintessence: expansion-collapse duality. (*J. Cosmology and Astroparticle Physics*, 2021, Harvinder K. Jassal, Kinjalk Lochan)
- The Remarkable Spin-down and Ultrafast Outflows of the Highly Pulsed Supersoft Source of Nova Herculis 2021. (*The Astrophysical Journal Letters*, 2021, Kulinder Pal Singh)
- Aspects of gravitational decoherence in neutrino lensing. (*Phys. Rev. D*, 2021, Kinjalk Lochan)
- The super-soft source phase of the recurrent nova V3890Sgr. (*Astronomy and Astrophysics*, 2021, Kulinder Pal Singh)
- Unique Signatures of Rashba Effect in Angle Resolved Magnetoresistance. (*Advanced Quantum Technologies*, 2021, Yogesh Singh, Sanjeev Kumar)
- Antiskyrmions and Bloch skyrmions in magnetic Dresselhaus metals. (*Phys. Rev. B*, 2021, Sanjeev Kumar)
- Non-Gaussian operations in measurement-device-independent quantum key distribution. (*Phys. Rev. A*, 2021, Jaskaran Singh, PhD Student & Soumyakanti Bose, Postdoc)

Selected publications

Department of Physical Sciences:

- LeMMINGs IV: The X-ray properties of a statistically-complete sample of the nuclei in active and inactive galaxies from the Palomar sample. (*MNRAS*, 2021, Aru Beri)
- Measurement of the branching fraction of $\Lambda^+c \rightarrow p\omega$ decay at Belle. (*Physical Review D*, 2021, Vishal Bhardwaj)
- Tachyonic vs quintessence dark energy: linear perturbations and CMB data. (*Classical and Quantum Gravity*, 2021, Harvinder K. Jassal, Jasjeet S. Bagla)
- Storing vector-vortex states of light in an intra-atomic frequency-comb quantum memory. (*Physical Review A*, 2021, Sandeep K. Goyal)
- Spectroscopic evidence of mixed angular momentum symmetry in non-centrosymmetric Ru_7B_3 . (*Scientific Reports*, 2021, Goutam Sheet)
- Ill-matched timescales in coupled systems can induce oscillation suppression. (*Chaos*, 2021, Sudeshna Sinha)
- Enhancement of extreme events through the Allee effect and its mitigation through noise in a three species system. (*Scientific Reports*, 2021, Sudeshna Sinha)
- Complex Langevin dynamics and supersymmetric quantum mechanics. (*Journal of High Energy Physics*, 2021, Anosh Joseph)

Selected publications

Department of Biological Sciences:

- ★ Regulation of metabotropic glutamate receptor internalization and AMPA receptor endocytosis by post-synaptic protein Norbin. (*Journal of Neuroscience*, 2021, Samarjit Bhattacharyya)
- ★ Males of the parasitoid wasp, *Nasonia vitripennis*, can identify which fly hosts contain females. (*Royal Society Open Science*, 2021, Rhitoban Raychoudhury)
- Are ecological communities the seat of endosymbiont horizontal transfer and diversification? (*Ecology and Evolution*, 2021, Rhitoban Ray Choudhury)
- ★ Evolution of reproductive traits have no apparent life-history associated cost in populations of *Drosophila melanogaster* selected for cold shock resistance. (*BMC Ecology and Evolution*, 2021, N. G. Prasad)
- ★ Indirect selection on cuticular hydrocarbon divergence in *Drosophila melanogaster* populations evolving under different operational sex ratios. (*Journal of Zoology*, 2021, N. G. Prasad)
- ★ Finding Love: Fruit fly males evolving under higher sexual selection are inherently better at finding receptive females. (*Animal Behaviour*, 2021, N. G. Prasad)
- Single-particle cryo-EM reveals conformational variability of the oligomeric VCC β -barrel pore in a lipid bilayer. (*Journal of Cell Biology*, 2021, Kausik Chattopadhyay)

★ BS-MS students are co-authors on these publications

Selected publications

Department of Earth and Environmental Sciences:

- Season-wise analyses of VOCs, hydroxyl radicals and ozone formation chemistry over north-west India reveal isoprene and acetaldehyde as most potent ozone precursors throughout the year. (*Chemosphere, 2021, Vinayak Sinha*)
- Probing wintertime air pollution sources in Indo-Gangetic Plain through 52 hydrocarbons measured rarely at Delhi & Mohali. (*Science of the Total Environment, 2021, Vinayak Sinha*)
- ★ A new index to assess the air quality impact of urban tree plantation. (*Urban Climate, 2021, Baerbel Sinha*)
- ★ Underreporting and open burning – the two largest challenges for sustainable waste management in India. (*Resources, Conservation and Recycling, 2021, Baerbel Sinha*)
- ★ *Epipremnum aureum* is a promising plant candidate for technologies for nutrients removal from wastewaters. (*Journal of Environmental Chemical Engineering, 2021, Sunil Patil*)
- Structural Controls Over the 2019 Ridgecrest Earthquake Sequence Investigated by High-Fidelity Elastic Models of 3D Velocity Structures. (*Journal of Geophysical Research: Solid Earth, 2021, Chandrakanta Ojha*)

★ BS-MS students are co-authors on these publications

Selected publications

Department of Earth and Environmental Sciences:

- Distribution and characteristics of microplastics and phthalate esters from a freshwater lake system in Lesser Himalayas. (*Chemosphere*, 2021, Anoop Ambili)
- Signatures of natural to anthropogenic transition in lake sediments from the Central Himalaya using stable isotopes. (*Applied Geochemistry*, 2021, Anoop Ambili)
- Characteristic dissimilarities during high aerosol loading days between western and eastern Indo-Gangetic Plain. (*Atmospheric Environment*, 2021, Raju Attada)
- Evaluation of extreme dust storm over the northwest Indo-Gangetic plain using WRF-Chem model. (*Natural Hazards*, 2021, Raju Attada)

Department of Mathematical Sciences:

- Maximal estimates for bilinear Bochner-Riesz means. (*Advances in Mathematics*, 2021, Jotsaroop Kaur)

Department of Humanities and Social Sciences:

- India's Migrant Workers and the Pandemic. (*Routledge*, 2021, Ritajyoti Bandyopadhyay)

October - December 2021 : Spotlight on two papers

- A prion protein mutation - that is associated with severe progressive incurable human neurodegenerative disorders - confers the property of liquid-liquid phase separation to the protein, that then leads to self-seeding amyloid formation which is responsible for pathogenesis (**PNAS, 2021, Samrat Mukhopadhyay**)
-

- A physiological signaling role for reactive oxygen species (ROS) molecules in supporting normal heart functions and healthy lifespan in the model fruit fly organism *Drosophila melanogaster* (**Science Advances, 2021, Sudip Mandal, Lolitika Mandal**)

Awards/Honors for faculty members

- **Dr. Rachna Chaba:** awarded **DBT/Wellcome Trust India Alliance Senior Fellowship**
- **Prof. Sudeshna Sinha:** elected to **the Council of INSA**
- **Prof. Sudeshna Sinha:** joined **the Editorial Board of 'Communications in Nonlinear Science and Numerical Simulation' (Elsevier)**, as Associate Editor
- **Prof. Kausik Chattopadhyay:** received the **C. R. Krishna Murti Award of the Society of Biological Chemists India 2021**
- **Dr. R Vijaya Anand:** awarded **Bronze Medal 2022 of Chemical Research Society of India (CRSI)**
- **Dr. Jino George:** received **Young Scientists Award 2021- Asian Oceanian Photochemistry Association, APA (JAPAN)**
- **Dr. Goutam Sheet:** invited as **Adjunct Faculty at SNBNCBS, Kolkata**
- **Drs. Jogender Singh, Tripta Bhatia:** individual recipients of **Ramalingaswami Re-entry Fellowships**

Awards/Honors for students

Research grants

- **Anubhav Preet Kaur:** awarded research grant from **Leakey Foundation**
- **Moumita Roy:** received the **SITARE-GYTI award 2021**

Fellowships

- **Harish Kishnani and Warsimakram Imamsab Katapur:** received **PMRF (total = 11)**
- **Pooja Chaudhary:** selected for the **SERB-Purdue University Overseas Visiting Doctoral Fellowship**
- **Dr. Monika Gupta:** joined as **Ramanujan Fellow, IIT Ropar**

Travel awards

- **Prachi Ojha:** received the 2021 **Trainee Professional Development Award** from the **Society for Neuroscience, USA** and the **IBRO-SFN travel award**
- **Sukrampal:** received the **International Travel Support** from **SERB**
- **Ramandeep Singh:** received the **CSIR Foreign Travel Support**
- **Srishti, Sukrampal and Ramandeep Singh:** received travel grants from the **Centre for Electromicrobiology, Aarhus University Denmark**

Poster prizes/seminar invitations

- **Mamta Bhandari:** received the best poster award in an **International Conference Main Group Molecules to Materials (MMM-II)**
- **Akhila Kadyan:** won the best poster prize in the **27th CRSI National Symposium in Chemistry**
- **Amreen K. Bains:** received invitation from **NOST student seminar**

International Genetic Engineering Machines (iGEM) competition

- Team IISER-Mohali constituted of **BS MS undergraduate students** took part in iGEM 2021 - a synthetic biology competition organized by MIT, Cambridge, USA.
- The team designed a **saliva-based diagnostic kit** to detect the risk of developing oral cancer. To reduce costs, they used a smartphone as a detector and built an app to analyse results. It is the world's first such kit relying solely on protease activity.
- The team's idea won the **Frederick Cottrell Impact Grant, 2021** worth \$2500.
- Two IISER-M students (**Athira Sreejith** and **Sourav Suresh**) are co-authors on a paper published on the iGEM initiative (***Nature Biotechnology, December 2021***) .

Outreach Activities

- Organised online scientific activity for over 1000 school students. These sessions included talks and activities to encourage students to pursue science.
- Organised online interactive sessions for college students aimed at helping the students to make an informed decision about science careers.
- Online science events for school students organized on IISER Mohali Foundation Day (27 Sep 2021): Science based quiz, essay, story writing, photography, art, debate etc. Science demonstrations to help students understand scientific concepts.
- IISER Mohali Public Outreach Talk series: On last Saturday of every month, scientists explain their work to the public at large. 11 such sessions have already been held.

Technology Business Incubator (TBI) at IISER Mohali

CEO-TBI: Mr. Satyendra Singh

TBI facility (~ 1000 sq m) was inaugurated by Dr. Jitendra Singh - Honourable Minister of Science & Technology and Earth Sciences, on 2nd Nov 2021



IISER Startup Incubation Program

❑ 13 start-ups selected out of 70+ registrations for phase 1 which is 3 weeks mentoring workshop and 10 joined for the long-term incubation.

i-RISE-Open Knowledge Session Series

❑ Second and third sessions conducted on 15th Sep 2021 and 24th Nov 2021 in association with PSCST

Events

❑ Launched Roar-2021, State's Biggest Ideathon in partnership with Innovation Mission -Punjab. 390 applications are received.

❑ Participation in Exhibitions - IISF-2021, Goa (December 2021)

Currently 17 incubates are enrolled with the TBI, 7 are physically incubated at the facility

Other activities / initiatives

➤ Foundation Day Lecture (27 September 2021)

Chief Guest and Speaker

Professor Ramesh V. Sonti, IISER Tirupati

Title of the Lecture: “How do plants ward off pathogens?”

➤ Collaboration with Max Planck Institutes (MPI), Germany

- Meeting held on 26th November 2021 in presence of the Ambassador of India to Germany, to initiate activities under framework of MoU between all IISERs and MPI .
- For students: Summer Research Projects, MS Thesis Projects, Joint PhD Programs.
- For faculty: Short-term bilateral visits, Joint Workshop/Conference/Symposia, Joint-Research projects (DST-DAAD/DBT-DFG/Horizon etc.)

Other activities / initiatives

➤ Gender Advancement for Transformation of Institutions (GATI)

- IISER Mohali is one of 30 institutions across the country selected for implementation of GATI 2-year pilot program - an initiative of DST.
- GATI aims to nudge institutions of higher education and research towards supporting diversity, inclusion and the full spectrum of talent for their own success and progression.
- This is to be achieved through a self-assessment and accreditation model.
- IISER Mohali is partnered with University College London to implement the GATI program.

IISER-Mohali @ 15

Our success in teaching is to be judged

- not by the record of student job placements when they graduate,*
- but by that of the leadership positions they occupy a few years hence ...*

IISER Mohali PhD students who are now faculty members

- **Bodhisatta Nandy:** Assistant Professor, **IISER Berhampur**
- **Neha Jain:** Assistant Professor, **IIT Jodhpur**
- **Kiran Kumar Kolathur:** Assistant Professor, **Manipal College of Pharmaceutical Sciences**
- **Karan Paul:** Assistant Professor, **DAV University**, Jalandhar, Punjab
- **Shelly Gupta:** Assistant Professor, **Lovely Professional University**, Jalandhar, Punjab
- **Shashank Agrawal:** Assistant Professor, **Jaipur National University**
- **Satyam Ravi:** Assistant Professor, **VIT Bhopal**
- **Sumyra Sidiq:** Assistant Professor, **Government Degree College for Women**, J&K
- **Shilpa Setia:** Assistant Professor, **Bhag Singh Khalsa College for Women**, Abohar, Punjab
- **Shiv Parsad:** Assistant Professor, **IIT Goa**
- **Dilpreet Kaur:** Assistant Professor, **IIT Jodhpur**
- **Ajay Kumar:** Assistant Professor, **IIT Jammu**
- **Anuj Jakhar:** Assistant Professor, **IIT Bhilai**
- **Sonica Anand:** Assistant Professor, **MCM DAV College**, Chandigarh
- **Preetinder Singh:** Assistant Professor, **Khalsa College Garhshankar**, Punjab
- **Shelly Garg:** Assistant Professor, **DAV University**, Jalandhar, Punjab
- **Shalini Gupta:** Assistant Professor, **Punjabi University**, Patiala, Punjab
- **Prafulla Bogarrapu Chandra:** Assistant Professor, **Sri Sathya Sai Inst. of Higher Learning**, AP

IISER Mohali BS-MS students who are now faculty members

- **Sampat Sharma:** Assistant Professor, **IIT Mandi**
- **Tanya Kaushal Srivastava:** Assistant Professor, **IIT Gandhinagar**
- **Anuj Jakhar:** Assistant Professor, **IIT Bhilai**

MAYDAY ! MAYDAY ! – this is an SOS to Ministry of Education

- > 50 shortfall in required faculty strength (at 10:1 ratio), no progress in > 2 years
- Non-teaching staff recruitments (> 50 vacancies) severely impeded for > 2 years, since Recruitment Rules not approved. Sanction for 85 additional posts approved by BoG is pending.
- Meeting of Council's Standing Committee on IISERs not held for > 3 years (No Minutes of meeting of Jan 2020 available)
- For 2018, 2019, and 2020 – average monthly grant-in-aid OH31 expenditure was Rs 3.5 crore. In 2021, average OH31 allotment is Rs 2 crore per month, with only Rs 1 crore released each for November and December! OH-35 capital head release is also only 60% of that in earlier years.

"I am writing this mail due to a desperate situation in many labs of DBS including mine. We have never faced this before in the history of IISER Mohali. The situation has come to a point where in a few days some of the labs in DBS including mine will have to be shut down due to the unavailability of consumables. The grant money hasn't come and institute support has stopped for the last few months. As a result, the stocks have been depleted and will be completely over in the coming few days. This will not only affect the PhD students, it will also affect BS-MS students who are doing their final year project.

"I know the situation is very tight for you. Still, my earnest request would be for immediate support for the consumable orders, at least till 5 lakhs that you have promised for this financial year. Therefore, I would like to request you to do something so that processing of the consumable items order starts immediately."