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Minutes of the 38th meeting of the
Board of Governors of IIT Hyderabad
Date and time: 16th Feb 2022 at 10:00 Hours
Venue: Board Room, IIT Hyderabad, Kandi 502 284, Sanga Reddy District.
Through Video Conferencing (WEBEX)

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Members present:

Dr. B.V.R. Mohan Reddy	Chairman
Shri. Rakesh Ranjan, IAS	Additional Secretary, MoE, Member (Official comments received vide F.No.11-8/2018-TS-1 dated 11.02.2022).
Prof Vinod Krishan	Member
Dr Prema Ramachandran	Member
Prof M Lakshmi Kantam	Member
Prof B S Murty	Director, IITH, Member
Prof. Saptarshi Majumdar	Member
Prof. Shiv Govind Singh	Member
Cmde Manohar Nambiar (Retd.)	Registrar, IITH, Secretary

Shri Sandeep Kumar Sultania, IAS(FAC), representing the Govt of Telangana, did not attend the meeting.

Item No.1: Report on Election of Senate Nominees for the Board of Governors

The Director stated that the existing senate nominees namely Prof. C. Krishna Mohan and Prof. Ch. Subrahmanyam have completed their term of two years on 31.12.2021. Accordingly, the election for new Senate nominees has been conducted electronically in the month of January 2022, wherein Dr. B. Munwar Basha of Civil Engineering department acted as the returning officer. The following members were elected by the Senate members as members of the Board for a period of 02 years (until December 31, 2023):

a) Prof. Saptarshi Majumdar, Dept. of Chemical Engineering
b) Prof. Shiv Govind Singh, Dept. of Electrical Engineering.

The Director introduced and welcomed the new senate nominees to the Board. The Board places on record its appreciation to Prof. C. Krishna Mohan and Prof. Ch. Subrahmanyam for their tireless efforts, dedication, and support for the development of the institute in their capacity as members of the BOG.

Comments of AS(TE), MoE**:** May be noted.

The Board noted the item.

Item No.2: To consider confirmation of minutes of the 37th meeting of the Board of Governors held on 05th Oct 2021

The Director stated that the Thirty Seventh Meeting of the Board of Governors of the Institute was held on 05th Oct 2021, and a copy of the Minutes of the Meeting has already been circulated to the Members.

Comments of AS(TE), MoE: May be considered.

The Minutes of Thirty Seventh meeting of Board of Governors was confirmed as circulated.

Item No.3: To consider the report on actions taken on the minutes of the 37th meeting of the Board of Governors held on 05th Oct 2021.

A report relating to the actions taken on the various minutes was presented by the Director for information and consideration of the Board. The Director stated that no actions are pending.

During the discussions about pending ATR item no.18 regarding Gratuity, the Director explained that the matter of payment of gratuity to permanent employees of CFTIs under the MoE is under consideration and recently the issue has been forwarded to the Ministry of Labour by the MoE. He further added that the Gratuity in respect of project staff employed by IITH is also being paid in accordance with the Gratuity Act, 1972, pursuant to the orders of the Assistant Labour Commissioner, Hyderabad. The Chairman advised that the Gratuity shall be paid only at the time of termination and also that it is a good accounting practice to create a separate provision for the Gratuity liability in the proposed budget every year.

Comments of AS (TE), MoE: May be noted

The report of action taken on the minutes of the 37th meeting of the BoG was approved.

Item No.4: Report of action taken by the Chairman, Board of Governors from time to time since the last meeting.

The Director stated that the Chairman of the Board has approved various actions which were necessary for carrying out the day-to-day activities of the Institute and these were presented to the Board for approval. Noting the details of the faculty induction, Prof Vinod Krishan queried about the tenure period of the faculty being recruited. The Director replied there is no fixed tenure for faculty at IITs and that all faculty members are inducted as either Assistant/Associate/Professors based on their experience and qualifications. At each level, they are required to undergo probation of one year each.

The Chairman stated that good work is being done towards induction of Faculty and that when the faculty is being inducted in large numbers, there is a need to have an induction programme where the Vision, Mission of the organisation and the standards expected are laid down ab-initio. The Director stated that he spends almost an hour with each new faculty and explains the standards required to be met for a faculty member at the IITs. The Chairman also stated that it is important to have social get- together to enable greater bonding between the faculty and staff from different departments. The Director replied that we have had several such social events, including a recent one last month where almost the entire Institute faculty and staff were present.

Comments of AS(TE), MoE: May be noted.

The Board noted and ratified the actions taken by the Chairman.

Item No.5: Presentation by two faculty members on innovative research

Presentation by Prof. Suryakumar: Prof Suryakumar made a brief presentation about his research in the Large Area Metal Additive Manufacturing (LAAM). He explained that while most of the

existing Additive Manufacturing processes have a build volume of 300mm, his research team is working on a ten-time scaling, with capability to produce components up to 3m in length.

The work relies on addressing four key challenges viz., (a) achieving high deposition rates through multi-head deposition and hybridization (b) kinematic planning and variable axis deposition for realizing complex geometries (c) thermal management strategies for distortion and residual stress control and (d) standardization through design for AM inputs and characterization.

Talking on the ongoing research, he highlighted that the focus of their team is not just using machines but making them too. He cited the ongoing project with DRDL for 3D printing of a full-scale scramjet engine. The deliverables include design & building of the machine, demonstration of the capability by making a 3m long scramjet engine (for hypersonic missile) and finally transfer of the machine and knowhow to the DRDL. Similar work is also underway with TBRL Chandigarh and M/S Boeing Inc.

During the discussions, Prof Lakshmi Kantam queried about the 3D printing work with TBRL and stated that Prof Surya could examine the feasibility of working with HEMRL Pune, which was agreed to by Prof Surya. Prof Vinod Krishan queried about the type of materials being used for 3D printing and Prof Surya stated that while mild steel is the most used material, Nickel & Cobalt based super alloys are also being used in the projects with DRDL, particularly for missile applications. Lightweight materials such as C60 can also be explored by focusing on the challenges of inert atmosphere.

The Chairman congratulated Prof Surya on the work being done and queried whether the focus was on the material or the product. Prof Surya stated that the research is product driven, with the primary focus being on developing the machine and methodology for the DRDL sponsored rocket engine and the secondary focus being on applications such as Tissue engineering. The Chairman further asked as to how we compare ourselves with the best in 3D printing. Prof Surya stated that our primary advantage is the hands-on skills and the capability to build the machine and scale it up. In the western countries, there's little focus on Hand on skills and their primary focus is on Modelling and simulations. The Chairman advised that we need to constantly look at the competition in the field and strive towards becoming the best in the world.

Presentation by Dr. Vandana Sharma: Dr. Vandana Sharma made a brief presentation about her research in developing imaging equipment for fundamental and applied research. She has developed a state-of-the art reaction microscope which is used to study ultrafast dynamics in simple and complex molecules. Using the reaction microscope, her group has proved that the internal polarizability of Oxygen molecular ion can be exploited to freeze the molecular ion briefly. In addition, her group also established that an intermediate intensity could enhance the ionization rate in CH_3I molecules if it hits the resonance.

On the one hand, she images the small atoms/molecules utilising intense light sources and at the same time she has employed the near infra-red (NIR) radiation to 3D image the veins. Her group has been actively working in developing a novel 3D Vein Viewer module that not only images the peripheral vein mapping underneath the human skin but also determines the depth of the vein vessel from the top of the skin with micro-meter accuracy.

The standard technique for peripheral Intra-Venous (IV) access involves a clinician using a tourniquet to engorge veins, followed by 'Palpation' to identify a suitable vein and finally insertion of the catheter needle. This often results in many cases of false trials and multiple needle penetrations into the body. Near Infrared Radiation NIR penetrates deeper into tissues by a few centimetres and provides 2D images of the subcutaneous vascular network. The maximal likelihood

estimate of the depth is obtained through stereo imaging under NIR integrated with Artificial Intelligence for vein identification.

A single compact, mobile device combining state-of-the-art optical technologies with robotic arm to automate the IV insertion forms her vein locator which would aid medical staff in reducing the bruising and damaging among patients especially among infants and the aged during IV therapy. This device will be one of its kind in India and is one of their endeavours to create contactless health care systems for the pandemic situations such as COVID -19.

During the discussions, Prof Vinod Krishan queried about the measurement of polarizability. Dr Vandana replied that they record the ion complete kinemetics of particles and back calculate the origin of the ions and estimate the polarizabilty of energy levels involved. For the vein viewer project, Dr Prema Ramachandran stated that the "device is a welcome addition in getting the needle or venous line into the vein. Venous line will have to be kept in the vein for considerable time to enable IV fluids and drugs to be administered. During this period the fragile venous wall may get disrupted and result in extravasation of the fluids. Clinical monitoring of the site is essential for early detection of extravasations in patients with fragile veins." Dr Vandana replied that the device is a 3D imaging non-invasive device which can guide the technician to administer the medicines in the veins. The device won't be administered in the vein.

The Chairman queried as to why we must take the help of TIFR for utilisation of their Laser systems. Dr Vandana replied that although we have recently acquired a high-end Laser system at IIT Hyderabad, the system is still being set up and will take some more time before it is fully functional. Prof Vinod Krishan queried about the kind of Laser being used and Dr Vandana replied that they are using 800nm, 25fs, Ti-Sapphire Laser.

Comments of AS(TE), MoE: No Comments.

The Board appreciated the work of Dr. Vandana Sharma & Prof. Suryakumar, and their contribution in carrying out collaborative research of relevance to the community and bringing out useful products.

Item No.6: Academics at a glance

The Director stated that a new BTech Program in Industrial Chemistry has been started to promote academic excellence in solving Industrial Chemistry problems and provide the stimuli to students to excel in higher education, research, innovation, and entrepreneurship in academia and industry. This BTech program offered by the Chemistry department at IITH is a perfect blend of advanced experimental/computational research, industry exposure, and co-curricular activities, offering vibrant experiences to budding engineers for various chemical industries. This program is expected to bridge the gap between Chemistry and Industry; this would be accomplished through training in current topics like green chemistry, materials for energy and environment, drug design and development, biochemistry, nano chemistry, machine learning, and computer simulations in chemistry. Such an all-rounded training in basic and applied chemistry will also enable them to handle any challenging real-world chemistry-oriented problems.

The Director also stated that the institute has started a BTech program in Biotechnology and Bioinformatics which is an application-based program and trains students for solving biological problems using biological and computational approaches. It aims to provide essential skills in Biotechnology, including molecular cell biology, biochemistry, systems biology and nanobiotechnology. It is also designed to train the student with Bioinformatics skills, including DNA sequence analysis, drug discovery, disease characterization, genomics, proteomics and data

analysis. The curriculum provides the opportunity for the students to take courses from different departments such as computer science, artificial intelligence, mathematics, physics and chemistry in the first two semesters. Apart from the regular BTech curriculum, students will have an opportunity to increase their depth in the subject by undertaking elective courses from any other departments, including Electrical, Mechanical, Chemical, Civil, and Material Science. Students can also get a minor in areas of their interest, outside the department, like entrepreneurship, computer science, etc., by completing 12 credits in their area of interest. The Biotechnology and Bioinformatics program prepares the students for a career in academia and industry related to life science, healthcare, biotech, medical coding, data science and bioinformatics.

The Director presented the program wise student strength and stated that as on 01.01.2022, a total of 3903 students are on the rolls of the Institute. The Director also presented the statistics on various parameters as on August 2019 pertaining to IIT Hyderabad and the progress thereon till February 2022 along with goals set to achieve in near future i.e., 2024-25 by the institute. He further briefed the committee on the progress made since on all fronts in the Institute since he took over as Director in August 2019.

Prof Saptarishi stated that the Institute is one of the fastest growing academic institutions and we have a very vibrant and young lot of faculty members. The Chairman stated that he was extremely impressed with the progress made by the Institute in the last two and a half years. He hoped that we would be able to conduct a physical meeting of the BoG next time so that the members could physically see the campus for themselves.

Comments of AS (TE), MoE: May be noted.

The Board noted and appreciated the sustained efforts of the Institute in improving the quality of Academics.

Item No.7: Report on Research and Development (R&D).

The Director stated that a sum of Rs. 62.5Cr has been received thus far by the Institute for sponsored/consultancy research for the period 2021-22. The DRDO cell is operational at IITH and a total of 13 Projects amounting to Rs 23.08 Cr have been sanctioned with an amount of Rs.13.88 Cr being released till date. In addition, a Centre of Excellence in Additive Manufacturing has been approved in principle. He further updated the members on the present status of the Patents filed/granted stating in the last two years stating that 53 patents have been filed and 08 patents granted till date. Complete applications have not been filed for some of the provisional patent applications filed in 2020. Due to this, the number of complete applications in 2020 has been reduced.

The Director also stated that IITH has transferred three technologies to different industries and elaborated upon the functioning of the I-TiC and TiHAN foundations at IITH for the information of the members.

Comments of AS(TE), MoE: May be noted.

The Board appreciated the work being done by the Institute in Research & Development and the contribution of the researchers in bringing out products useful to the larger community.

Item No.8: Report on Campus Development Project

As a part of the expansion program of IIT Hyderabad, the Board of Governors had approved the Campus Development Project divided into two packages viz., 3A and 3B in its 29th and 31st meetings. This project is majorly funded by JICA loan and partly through HEFA. A brief report on the Campus Development Project of the Institute, highlighting the scope of work under this agreement and the timelines was also presented. The Dean Planning stated that the speed of works has picked up pace after delays caused by shortage of labour and material because of the pandemic. The Director stated that regular review meetings/site visits are being conducted both by the Director and Dean planning with both the contractors, M/s L&T and M/s SPCL Pvt Ltd to ensure that work is being progressed in accordance with the revised timelines. The Dean Planning further elaborated upon the progress of the Construction and explained the three sources of funding, i.e., JICA, HEFA and TRP for the Package 3A and 3B. Thereafter, the Director explained the expected timelines for completion of each building.

The Chairman appreciated the progress of the construction and stated that the new Lecture halls being constructed should be capable of hybrid mode classes. The Director stated that by 2024 all the classes and lecture halls will have the necessary infrastructure for conduct of classes in hybrid mode. The Dean Planning stated that hybrid/interactive learning with the support of AV systems has already been planned for all classes/Lecture halls.

The Chairman further advised that there will be huge maintenance costs every 4-5 years in terms of repairs / replacements and advised that a maintenance fund be floated to absorb such maintenance costs so as to not depend solely on the funds from MoE. The Director explained that a separate Research Equipment Maintenance Fund has already been created to tackle the issue of AMC and other maintenance expenditure of research equipment. Similar steps will be initiated for the maintenance of buildings and infrastructure also in due course of time.

The Chairman also suggested that the Institute explores the possibility of reskilling the LDPs as plumbers, electricians' etc. The Dean Planning stated that some of the day-to-day maintenance works are outsourced and the reskilling of the LDP manpower is a feasible option. However, manpower retention post reskilling could be a problem in the future. The Director stated that we will work towards exploring the feasibility of reskilling the LDP manpower.

Comments of AS(TE), MoE: May be noted.

The Board noted the report on campus development project.

Item No.9: List of External Experts Invited for Faculty Interview since the Last Meeting

The Director updated the members on the list of external experts who were invited to act as recruitment panel member for the faculty interviews since the last meeting.

Comments of AS(TE), MoE: May be noted.

The Board noted and ratified the item.

Item No.10: Report on Faculty Recruitment

The Director stated that, the faculty recruitment has been carried out in four rounds i.e., Oct 2019-Jan 2020, Aug 2020 to Oct 2020, Apr 2021 to Oct 2021 and the fourth one as special recruitment drive from Dec 2021 to Jan 2022. Currently IITH has a total strength of 257 faculty members. Further, the tabulated details of the offers made, those who joined/regretted and those who accepted but are yet to join and yet to accept was presented to the members.

Comments of AS(TE), MoE: May be noted.

The Board noted and ratified the item.

Item No.11: **Report on Implementation of policy for permitting Institute's employees to pursue Higher Studies**

The Director stated that the institute has framed certain general guidelines under its policy of permitting its employees to pursue higher studies and the same has been circulated among all the staff members for information and compliance.

Comments of AS(TE), MoE: May be noted.

The Board noted and ratified the item.

Item No.12: Report on Advertisement of Non-Teaching Vacancies

The Director stated that, in accordance with the 37th BoG meeting, the institute has advertised 24 vacancies for 09 posts under NF-9 on 11.09.2021 and a total of 1431 applications have been received till last date of receipt of the applications i.e., 11.10.2021. Among the total applications, a total 305 candidates were shortlisted out of which 223 were for written exam (pay level 6 & below) & 82 for interviews (pay level 8 & above).

The Institute had planned that the written/skill tests will be conducted on 22 Jan & 23 Jan 2022 for the posts level-6 and below, however, due to the prevailing pandemic situation, the Institute has postponed the selections (written exams). The Selections for the posts at Level-8 and above were held during 31 Jan 2022 to 04 Feb 2022 as per the schedule through online mode. Further, the Director updated the details of the posts filled (07) and not filled (04) along with the recommendations of the Selection Committees. The written exam for pay level-6 & below posts are scheduled tentatively in early/mid-March 2022.

Comments of AS(TE), MoE: May be noted.

The Board noted and ratified the item.

Item No.13: Report on New Joining / Resignation / Deputation

The Director updated the committee about the details of staff members who have been terminated from the service and those who have been relieved from the institute on deputation.

Comments of AS(TE), MoE: May be noted.

The Board noted and ratified the item.

Item No.14: Annual Accounts for the Financial Year 2020-21

The Director stated that the Annual Accounts of the Institute have been prepared in the format prescribed by Government of India and have been audited by the team of auditors under CAG. With a view to comply with the schedule prescribed by Ministry of Education under letter F.No.32-15/2015-T.S.-I dated 21st August 2015 i.e., forwarding of Annual Accounts, by the end of November, approval of the Chairman of the Committee has been obtained and the audited Annual

Accounts have been forwarded to the Ministry. Further, the reply to the issue raised by CAG Hyderabad was presented to the committee and is placed at *Annexure 1*. The Chairman stated that the Institute must ensure that all observations are taken care of in the future audits also.

Comments of AS(TE), MoE: May be noted.

The Board ratified the annual account of the institute submitted to the Ministry.

Item No.15: Revision in the Faculty Recruitment Policy

The Director stated that, IITs have been established through an act of the Parliament as premier institutions of the country to provide quality teaching and research in branches of science, technology and arts. IITs are expected to contribute to the development of the country and the world through excellence in scientific and technical education and research. IITs are also expected to compete with global institutions in their academic and teaching excellence. IIT Hyderabad is one of the second generation IITs established in 2008 and it has been striving to achieve the above objectives. IITs have been maintaining a flexible cadre structure for faculty with no specific tier wise faculty strength. The Ministry mandates all IITs to maintain an overall faculty/student ratio of 1:10. So far, the faculty at IITs are being recruited through regular advertisements (rolling advertisement in some IITs), followed by department shortlisting and final selection by expert committees, which evaluate merit of candidates, irrespective of their category.

Ministry of Education has brought out an Act on 9th July 2019 asking the IITs to maintain a roster, introducing reservations (15% for SC, 7.5% for ST, 27% for socially and educationally backward classes, and 10% for EWS, a total of 59.5%) at all the faculty levels from March 7, 2019.

At IIT Hyderabad, this issue was discussed at length by the Deans and other senior faculty members and the following points were proposed to be taken up for discussion at the BoG:
a) For the present, IITH would like to draw a roster for all the unfilled positions as on   March 7, 2019, treating the whole institute as a single unit, and fill these vacant positions   as   per   the roster. All the positions filled after March 7, 2019 will be adjusted in this roster. Advertisements will be brought out regularly to fill faculty positions. Every faculty position filled will be mapped on to the roster.
b) Any positions filled at Associate Professor and Professor level by the already existing faculty will be treated as "Promotion" and roster will not be made applicable to these positions.
c) Any positions filled at Associate Professor and Professor level by the external candidates will be treated as "Selection" and they will be adjusted in the roster.
d) All positions will be filled by the external expert committee, as is currently practiced, with the visitor's nominee as a member for the Professor recruitment.
e) Special drives will be conducted regularly to fill the unfilled positions of the reserved categories as per roster.

The Chairman stated that it is difficult to fill up the 10% EWS vacancy since the criteria of income and assets as per the DOPT's office memo for qualifying as EWS considers the income and assets of the whole family with a limit of Rs. 8 Lakhs. In addition, there is no mention on reservations for the PwDs within the existing reservations. This is a very critical issue to ensure diversity and inclusion. Chairman also pointed out that the Ministry's Act does not underline clearly whether all OBCs need to be provided reservations or only those belonging to Non-Creamy Layer need to be provided. The circular only says socially and educationally backward classes. Some members pointed out that there are a large number of vacancies yet to filled up in all IITs. The Director also clarified that the issue of reservations as per our current interpretation is pertinent only to recruitments and there is no reservation in promotions.

Prof Vinod Krishan suggested that we could get a clarification from the MOE on the possibility of transferring of a post from the reserved category to the general category after three unsuccessful trials. The Registrar brought out that the de-reservation of roster is a very tedious process and applicable only in rare and exceptional cases.

This being a larger issue, the board members opined the following
1) Confirm to MoE that the board's intent is to follow the GOI policies but will need clarity on the issues raised above.
2) Instead of each IIT implementing the scheme as per their understanding, it will be useful to discuss the matter at IIT Council and come out with a uniform policy for implementation across all IITs.

Comments of AS(TE), MoE: Institute to ensure that the provisions contained in CEI (Reservation in Teachers cadre) Act 2019 are followed in letter and spirit.

The Board recommended that the issue be taken up with the MoE through the IIT Council.

Item No.16: Proposal of the Institute to adopt Dynamic Assured Career Progression (DACP) scheme for Doctors of the Institute

The Director stated that the Department of Higher Education, MoE, in its letter dated 9th September 2010 addressed to the Directors of IITs, has agreed to extend the DACP Scheme to the posts of Medical Doctors of IITs as per the 6th CPC recommendations. Most of the other IITs have also adopted the DACP scheme for the doctors in the institute. Further, the promotion channel for Doctors of the Institute under the DACP was also presented to the board members.

Comments of AS (TE), MoE: May be considered in line with guidelines governing promotion of Central Government Medical Professionals issued by Government of India.

The Board approved the proposal of the institute.

Item No.17: To consider proposal of the institute to change designation of certain posts

The Director stated that, the Institute has received representations from some of the employees with a request to change the nomenclature of certain posts to maintain parity with other IITs. The Institute reviewed the request and examined the structure being followed in some of the First generation IITs. Accordingly, the Institute proposes change of designation of the posts from Senior Technical Superintendent to Technical Officer (Pay Level -10), Technical Officer to Senior Technical Officer (Pay Level -11), Junior Medical Officer to Medical Officer (Pay Level-10), Medical Officer to Senior Medical Officer (Pay Level -11), Junior Sports Officer to Sports Officer (Pay Level -10), and Sports Officer to Senior Sports Officer (Pay Level -11).

The Department/Section and Pay Level attached to the posts will remain unchanged. There are no financial implications involved due to the proposed change of designations.

Comments of AS (TE), MoE: May be considered

The Board approved the proposal of the institute.

Item No.18: Proposal to adopt guidelines of Endowment Funds issued by MoE

The Director stated that, in line with the guidelines of endowment funds issued by MoE, IITH has opened a dedicated Endowment Fund bank account in Canara Bank to receive donations from alumni, industry (including CSR donations) and philanthropists. A separate Development Office has been created under the Dean (IAR) to look after the activities relating to Donations. Separate CRM software for donation related activities called "Salesforce CRM" has also been procured. A separate website with a name "giving.iith.ac.in" has been unveiled exclusively for donations. Dedicated campaigns can be run through this software for donations for various purposes. The website, Salesforce CRM, Bill desk Payment Gateway and the Endowment Bank Account have been integrated to provide seamless experience to the Donors and to maintain transparent accounting of donation receipts.

He also stated that as per the Gazette Notification of Ministry of Home affairs dated 30-01-2020, all bodies constituted or established under a Central Act or state Act requiring their accounts to be audited compulsorily by CAG of India are exempt from the operation of all Provisions of the Foreign Contribution (Regulation) Act 2010. Accordingly, IITH is exempt from the provisions of FCRA Act 2010.The draft guidelines prescribe appointment of an Endowment Advisory Board (EAB) and an Investment Committee which will be taken up in subsequent BoG Meetings. The above addresses the core and fundamental principles of the Endowment fund as prescribed by MOE.

He further stated that IIT Hyderabad has obtained 80G registration under the Income Tax which provides 50% tax benefit to the Donors. Efforts are being made to obtain 100% Tax benefit to attract more donations. To work with the overseas Alumni, IIT Hyderabad had established an IITH US Foundation and has been receiving donations through this US non-profit entity. All other suggestive measure provided in the Draft Endowment Policy will be addressed progressively.

Comments of AS (TE), MoE: May be considered.

The Board approved the proposal of the institute to adopt guidelines of Endowment Funds issued by the MoE.

Item No.19: Proposal to consider terms of engagement of a faculty member in Start-up Venture

The Director stated that, the faculty members of IITH carry out many R&D activities in several cutting-edge science and technology areas. It is important for these research outcomes to get translated into commercial products, benefiting the society in general. Towards this end, IITH encourages interested faculty members to incorporate start-ups to engage in the businesses that are direct result of the research and development activities of the faculty member of IITH. For a faculty driven start-up, the start-up is required to be incubated in the Institute at one of its incubators (iTIC or CfHE or FabCI). However, in exceptional cases, the institute may allow a faculty member to open/operate/incubate the Company outside the institute if sufficient justification is provided.

In this start-up, the faculty can engage in technology development, technology commercialization and scaling-up activities. In the early stages of the startup, the faculty member is also allowed to hold executive position like CEO, COO, etc. However, this role must be in the form of a consultant or advisor or honorary employee (not as salaried employee). Consultation income from IITH incubated start-up is not subjected to standard IITH industrial consultancy norms during the incubation period of the start-up. In all scenarios, it is to be safeguarded that the faculty member

does not spend more than 20% of office time on the startup. If any faculty member wishes to go beyond the terms mentioned here, one may do so by taking a sabbatical and/or leave without pay.

During the discussions, the issue of allowing a faculty member/staff to incubate/open a company outside the institute was discussed and members opined that this practice is in line with other IITs and in any case, this will only be approved once sufficient justification has been provided.

Comments of AS (TE), MoE: *FC may discuss the item in line with practice in other IITs. Views of IFD representative of the ministry may be considered.*

The Board approved the proposal to consider terms of engagement of a faculty member in Startup Venture.

Item No.20: Proposal to consider IP Licensing to Startups

The Director stated that this proposal is applicable to cases where an entrepreneur (either a current student or a faculty) enlists the start-up during his/her stay at IITH. The Start-up is given exclusive licensing of the IP in return for additional 2% equity. The Incubator of IITH takes this equity on behalf of the Institute. When the Incubator monetizes this equity, 75% of the revenue from the 2% is transferred to Institute. The remaining 25% of the revenue is retained by the Incubator towards meeting the expenses for technology commercialization and monetization. The Start-up in return for the 2% of additional equity is given exclusive licencing of the IP. IITH provides exclusive, worldwide, sub-licensable, irrevocable, and transferable license to the start-up. It may be noted here that as the technology transfer is happening to the inventor-associated Start-up, the royalty sharing model of the IP policy does not apply and all the revenue belongs to the Institute.

The key advantage of this mechanism is that all the three entities; the Start-up, the Incubator and Institute are invested in the success of the venture and benefit from its advancement. There is an ambiguity free ownership for the Start-up and a higher probability of revenue generation from technology commercialization for the Institute; the Incubator acts as a via media facilitator. This policy will be applicable for all the Student and Faculty Start-up enrolments henceforth.

The Start-ups already enrolled will have an option of choosing between:
(a) The new equity transfer model
   OR
(b) Earlier model of IP licensing from IITH to an external entity via a IPEC (Intellectual Property Evaluation Committee).

The committee appreciated the efforts of the institute towards formalizing the norms for IP Licensing to Start ups, which is in line with the practice being followed in other IITs.

Comments of AS (TE), MoE: *FC may discuss the item in line with practice in other IITs. Views of IFD representative of the ministry may be considered.*

The Board approved the proposal of the institute.

Item No.21: Proposal for School of Innovation and Entrepreneurship at IIT Hyderabad

The Director stated that, as a new department in the fastest growing IIT, the Department of Entrepreneurship and Management at IIT Hyderabad (IITH) has the potential to excel both as a pedestal of high-quality research and a nurturing ground for young entrepreneurs. On the other hand, financial and procedural autonomy in the form of special stature as a school can rapidly speed

up the growth of this new entity. With this background this presentation proposes the plan of the proposed School of Innovation and Entrepreneurship for the next five years in Research and generation of Human Resources in this area. This school will house two entities namely a) Department of Entrepreneurship and Management and b) Centre for Socially Impactful Innovations and Entrepreneurship.

Shibodhi Foundation and Cyient Foundation together wish to establish this School at IITH.

2. Vision and Objectives

The vision of the proposed school is "To become school of innovation and entrepreneurship of international repute which provides the best-in-class ecosystem to nurture socially impactful techno-entrepreneurial ventures".

The objectives of this school are set as:
- To kindle the entrepreneurial motivation and imbibe entrepreneurship attitude within IITH community.
- To create an ecosystem which nurtures innovativeness, creativity and entrepreneurial and owner's mindset among students.
- To help resolve local community problems by creating social value adding start-ups based out of technological innovations.
- To create a vibrant network of industry leaders, academicians, local innovators and aspiring student entrepreneurs.

3. Structure of the School

This school will house two entities namely:
- Department of Entrepreneurship and Management (DEM)
- Centre for Socially Impactful Innovations and Entrepreneurship (CSIE).

4. Proposed Initiatives

This section delineates the plans for different initiatives by the school in the coming years.

4.1 Academic Programs – Under DEM
- MTech Dual Degree in Techno-Entrepreneurship (started in 2021)
- Full time MTech in Techno-Entrepreneurship (from 2022)
- Part-time executive MBA in Entrepreneurship and Management (from 2023)
- BTech in Techno-Entrepreneurship (from 2023)
- One-year weekend diploma programs (from 2024)
  - Social entrepreneurship
  - Green Entrepreneurship

4.2 Research Initiatives - Under DEM
- International Travel and Research Grants for EM faculty
- Chair Professorship (1)
- Adjunct Research Faculty and International Visiting Faculty
- Top-up research fellowship for selected PhD students on the following areas:
  - Entrepreneurship and UN sustainable development goals
  - Entrepreneurship and the bottom of the pyramid

4.3 Innovation and Entrepreneurship based Initiatives – Under CSIE
- Innovator to Entrepreneur Program (IEP) by 2023
- Innovators space
- Community outreach

- Hosting workshops and boot camps for diverse audiences
- Corporate Innovations Forum
- Professors of Practice

5. Budget:
The capital budget will involve a Building costing around Rs. 10 crores. Operational expenditure is expected to be around 2 crores per year for 5 years.

Prior to the discussions, Dr Mohan Reddy, the Chairman of BoG recused himself in view of a conflict of interest as he is the chairman of Shibodhi Foundation and Cyient Foundation, who are financially sponsoring the project. The meeting for this segment was chaired by Prof M Lakshmi Kantam. Prof M Lakshmi Kantam stated that it is a very good initiative, and the proposal should be taken forward. Prof Saptarishi stated that Entrepreneurship is an integral part of Management, and the Entrepreneurship and Management (E&M) department does not have a space of its own, since it was not factored in the original infrastructure plans of the Institute. Prof Vinod Krishan lauded the initiative and stated that such a school would enable the conduct of translational programs from teaching to entrepreneurship. She further stated that there is a need to recruit the right kind of faculty for the proposed school of Entrepreneurship and Management. Prof Shiv Govind Singh stated that it is a great initiative, and the proposed school will always remain a part of IIT Hyderabad.

The committee discussed the financial implications of the project and carried out a cost benefit analysis of the proposal. It was opined that there would be no Capital/revenue expenditure on running the school for the first five years. It is expected that the school will be self-sufficient financially after the first five years because of revenue generation on account of several courses being proposed to be run at the school. In any case, the two foundations have also orally expressed a possibility of supporting the proposed school beyond the initial five years.

The committee was further informed that the proposal has been approved by the Senate in the 47th Senate meeting held on 27 Jan and 02 Feb 22.

The board unanimously approved the proposal. Further, in the light of Dr. BVR Mohan Reddy's ten years association with IITH as Chairman of BoG and because the project is funded by foundations where is a key stake holder, the board decided to name the School and the Building as "BVR Mohan Reddy School of Innovation and Entrepreneurship".

Comments of AS (TE), MoE: It is not clear if the proposal has the approval of Senate.

The Board approved the proposal of the institute.

Item No.22: Minutes of the 15th Meeting of Buildings & Works Committee

The Director stated that the 15th meeting of Buildings and Works Committee was held 30th August 2021 and the minutes were confirmed by the Committee in its 16th meeting held on 28.01.2022.

Comments of AS(TE), MoE: May be considered.

The Board ratified the minutes of the14th BWC meeting

Item No.23: Any other item with the approval of the Chair

There being no other points, the meeting ended with thanks to the chair.

Reply to the Audit Comment included in SAR for the year 2020-21

Para No.	Audit Comment	IITH Reply
A.1.1.1	A.1.1 Current Liabilities and Provisions: Rs. 142.74 crore (Schedule-4) A.1.1.1 This included minus balances amounting to Rs. 8.23 crore in respect of 298 Sponsored Projects {Schedule-4(a)}, which were not accounted as debit balance under Loans, Advances and Deposits {(Schedule-9, Sl.no.7(a)}, though mandated as per format of accounts, prescribed by Ministry of Education (MoE), Government of India, {Page 7, Schedule-3(a) Note 3 below} for central higher educational institutions. This resulted in understatement of Current Liabilities and Loans, Advances and Deposits by Rs. 8.23 crore.	Though individual projects have minus balances, when projects are considered as a whole, there is no negative balance. Further, Institute has not provided any loan to SRC projects. Hence it was not shown as loan/ advance.