

Impact Assessment Report

on the

CSR Contributions made by

M/s. Tech Mahindra Limited  
Mumbai

To

Mahindra Educational Institutions

For the Financial Year 2023-24

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- This report contains our analysis of secondary sources of published information and incorporates the inputs gathered through meetings with MEI/MU staff, students, beneficiaries.
- We have used and relied on data received from MEI and MU, material gathered through internet, research reports and discussions with personnel within our office. We further confirm that we have not independently investigated or verified such information; we assume no responsibility for the accuracy and completeness of the information provided to us by MEI/MU and will not be held liable for it under any circumstances;
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CA JSS Sivarama Prasad  
Chartered Accountant  
*15<sup>th</sup> April 2024*  
*Hyderabad*

## ii. Acknowledgements

We are delighted to take this opportunity to express our heartfelt gratitude to everyone who made this Impact Assessment Study possible.

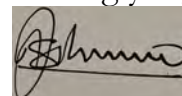
As this study was recruited and completed on a short notice, we owe our thanks to the cooperation extended to us by the MU authorities to deliver the requisite data, visit the various sites and interview as many individuals and personnel concerned.

We would like to thank Mr. Vijaya Kumar Venkataraman, CFO of MU for inviting us to carry out this Impact Assessment Study.

Thank you to Dr. Yajulu Medury (Vice-Chancellor), Col. Rajive Chauhan (Registrar), Mr. Vijay Kumar Venkataraman, CFO, Mr. Brainard Chandrahas, Maj. Gen Suresh Rakshit, Mr. Rakesh Sreedharan, Ms. B. Manasa, Mr. Narasaraaju (Infra Dept), Mr. Ranjan Sardar Finance Officer; Mr K.Malleswar Rao (Finance Dept); Mr. Sudhakar Reddy (Corporate Services), Mr. G.K.Suresh, (Manager Projects), Mr.Srinivas (Office Assistant), invited Faculty and Students for our interviews and focus groups and all the support staff who assisted us.

It was indeed our pleasure to have visited this lush and beautiful campus and to have worked with all of you in making this report a success!

Thanking you,



CA JSS Sivarama Prasad  
Chartered Accountant

15<sup>th</sup> April 2024  
Hyderabad

List of Acronyms and Abbreviations used:

AI	- Artificial Intelligence
CA	- Chartered Accountant
CFO	- Chief Financial Officer
COE	- Centres of Excellence
CS	- Computer Science
CSR	- Corporate Social Responsibility
EEE	- Electrical and Electronics, Engineering
ERP	- Enterprise Resource Planning
HR	- Human Resources
ICT	- Information, Communications and Technology
IMSoE	- Indira Mahindra School of Education
IT	- Information Technology
JEE	- Joint Entrance Examination
JNTUH	- Jawaharlal Nehru Technological University, Hyderabad
ME	- Mechanical Engineering
MEC	- Mahindra Ecole Centrale
MEI	- Mahindra Education Institutions
MU	- Mahindra University
NRI	- Non-resident Indian
PG	- Postgraduate
PPO	- Pre Placement Offer
R&D	- Research and Development
SOE	- School of Education
SOL	- School of Law
SOM	- School of Management
TechM	- Tech Mahindra Limited
TMF	- Tech Mahindra Foundation
TML	- Tech Mahindra Limited
UG	- Undergraduate
VC	- Vice-Chancellor

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## **1. Executive Summary:**

### **1.1. About TechM:**

Tech Mahindra Limited (TML) is a leading Indian Company providing solutions and services in the Information, Communications & Technology (ICT) industry serving a large number of global customers, including Fortune 500 companies. The company has a large pool of skilled professionals and has proven global delivery models, distinctive IT skills and decades of domain expertise that help clients realize their business aspirations.

### **1.2. About MEI:**

The Mahindra Educational Institutions (MEI) incorporated as a Not-for-Profit Company with its main objective to establish institutions of higher learning, such as setting up of universities, colleges, academics and research institutes towards encouraging education and research work in different disciplines;

-to promote innovation and technology development; and

-to collaborate and /or affiliate with other universities in India for the cause of promoting high quality higher education within India.

### **1.3. About Us:**

CA JSS Sivarama Prasad, Chartered Accountant has been a practicing Chartered Accountant with 25 Years of rendering expert professional services. During this period, he has handled various assignments with multinational and multilateral organisations along with several Indian and Foreign entities. He has a vast exposure of and thorough understanding in systems and processes of medium and large sized organisations. He has been handling confidential & professional assignments of many national and international clients across India, China, USA, UK, UAE and parts of Africa.

### **1.4. CSR Vision of TechM:**

The CSR vision of Tech Mahindra Limited is “Empowerment through Education.” For Tech Mahindra Limited, Corporate Social Responsibility means responsible business practices through the involvement of all stakeholders in the decision making process and in its operations. It entails having business policies that are ethical, equitable, environmentally conscious, gender sensitive, and sensitive towards the differently abled. Tech Mahindra Limited committed itself to creating sustainable transformation and social integration.



### **1.5. Objectives of the CSR Policy:**

The objectives of CSR policy are to:

- Demonstrate commitment to the common good through responsible business practices and good governance;
- Actively support and be part of the state's development agenda to ensure sustainable change;
- Set high standards of quality in the delivery of services in the social sector by creating robust processes and replicable models;
- Engender a sense of empathy and equity among employees of TML to motivate them to give back to the society

### **1.6. Focus Areas:**

- TML implements its CSR activities in accordance with Section 135 of Companies Act 2013 and the Rules notified thereafter.
- One of the CSR focus areas' of TML is the promotion of education, especially technical education that makes the youth employable for the future.
- These programmes are implemented through Mahindra Educational Institutions (MEI).

### **1.7. Objectives & Scope of this Assignment:**

The Impact Assessment exercise with regard to CSR initiatives of Tech Mahindra Ltd (TechM) with respect to Contributions made to M/s. Mahindra Educational Institutions (MEI) is proposed to undertake the following objectives:

- a. To capture tangible and intangible impact of the Contributions made by TechM to MEI during the Financial Year 2023-24.
- b. To establish end use of Funds / Contributions received by MEI from TechM.
- c. To assess impact of the Contributions given to MEI.
- d. To examine whether the impact created matches with the planned objectives of Contributions given by TechM as part of its CSR initiative.

- e. To suggest measures for improvement, if any, or course correction in case of on-going initiatives.

### **1.8. Methodology:**

We have used mixed methods by collection of data pertaining to:

1. Primary study of CSR spent on the project, by data collection from the beneficiary apart from survey on the locations of beneficiary, in-depth interviews/discussions with the Management team of MEI.
2. Site visits and study of works executed
3. Review of documentation pertaining to infrastructure setup by using the contributions given by TechM.
4. Discussions with Official at MU (Registrar, CFO, Finance Team, VC Secretariat).
5. Collection of quantitative data and qualitative information from beneficiaries.

### **1.9. Profile of the Sample analysed:**

During our week-long visit to MU in April 2024, we had the opportunity to speak and interact with a cross-section of the Management, VC Secretariat apart from members of Finance Team.

Care was taken to have a prolonged interaction with select members who are direct stakeholders such as the Vice-Chancellor, Registrar, CFO, Head (Corporate Services), HR Department.

### **1.10. Impact Assessment:**

TechM has contributed an amount of Rs. 62.10 Cr towards Capital Expenditure apart from an amount of Rs. 1.83 Cr from Tech M Business Services Ltd., Rs.52.16 Lakhs from Born Commerce Private Ltd., Rs.54 Lakhs from Comviva Technologies Ltd., Rs.36 Lakhs from Goolestan Investments Private Ltd and Rs. 83.13 Lakhs from Mahindra & Mahindra Ltd totalling to Rs. 66.19 Crores of donations during the year 2023-24 and the same has been deployed on building infrastructure by MEI.

### 1.10.1. Tangible Benefits:

- a. The most positive impact of TechM's CSR activities at MEI has been in the areas that include infrastructure spent as detailed below:
  - i. Research Scholar Block (Partial Expenditure): Rs. 6.29 Cr.
  - ii. Hostel III (Construction of 100 Units of Research Scholar block (Partial expenditure): Rs. 29.96 Cr.
  - iii. Hostel IV A (Expenditure for 76 Twin Sharing rooms): Rs. 18.31 Cr.
  - iv. Guest House (28 Twin Sharing rooms, 30 Executive Rooms & 8 Suite rooms (Partial expenditure): Rs. 6.97 Cr.
  - v. SB Dining (Cafeteria for Girls): Rs. 2.39 Cr.
  - vi. Mahindra E Hub (Mahindra e Hub at IT Block LGF) Partial Expenditure: Rs. 1.72 Cr.
  - vii. IT Class rooms (3 X 180, 3 X 90, 3 X 60, 3 & 30 seater classrooms, 4 conference rooms and lounge areas) Partial Expenditure: Rs. 5.56 Cr.
  - viii. Task Building (Ground Floor Workshop with 40 seating capacity, First floor – 2 X 36 seater training rooms and 2 cabins, Second floor – 1 X 40 seater classroom.) (Partial Expenditure): Rs. 1.04 Cr.
  - ix. Admission Office & Auditorium (Partial Expenditure): Rs. 1.99 Cr.
  - x. Soccer Field Works (Partial Expenditure): Rs. 1.79 Cr.
- b. Educated youth with greater access to higher/technical education. MU plays a significant role in the global dynamics of R&D and higher learning, where students are motivated to attain their true potential.
- c. Mahindra University has set up various schools under academic streams that include Engineering, Management, Law, Education, Life-Sciences, Media that offer a world-class education. The university helps students to own their technical skills and foster innovation. MU has given scholarships to 400 Plus meritorious Students and Girl Students from Northeast.

### 1.10.2. Intangible Benefits:

- Intangible benefits include a more educated youth with greater awareness of environmental issues and better access to higher/technical education opportunities. These reflect an overall promotion of sustainable development as a core agenda of the MU.
- Intangibly, many stakeholders had also identified that 'Mahindra' is now associated not just as a corporate entity, but also as a university imparting high quality education in the fields of Engineering which include CS, AI, Nano Technology, Bio Tech, Biology, apart from highly effective combinations of BBA with LLB, BBA with Digital Technology, BBA with Computational Business Analytics. This validates that the CSR efforts of

Mahindra has made an outcome to brand itself in spheres beyond just technology.

### **1.11 Key Findings:**

The continued CSR initiatives of TechM are respectable and their impact and outcomes have been well received among the community and the beneficiaries. The benefits have a cumulative impact on the well-being of people in terms of improving human development in the areas of education as well as raising their standard of living and moving towards a sustainable development process.

During the course of study, we noticed that there is a need to pay special attention on some of the areas such as admin, maintenance and infrastructure. We also noticed a need for regular monitoring from TechM. We have put forth some recommendations at the appropriate section in the detailed report which we hope will be useful to TechM's Management.

## DETAILED REPORT

### 2. Introduction:

#### 2.1. Introduction and Background of Mahindra University:

The university owes its roots to the Program that was a historic collaboration between the Mahindra group and the Ecole Centrale Paris to establish the **Mahindra Ecole Centrale School of Engineering (MEC)** in 2014, under the auspices of the Jawaharlal Nehru Technological University, Hyderabad (JNTUH). The founding Director was Prof. Sanjay Govind Dhande who established the college in partnership with CentraleSupélec, and served the institution upto 2015.

From 2015 to 2017, an Interim Director – Prof. T.S. Krishnamurthy was appointed. Thereafter, Prof. Rajnish Srivastav was appointed as the Director of the college. His tenure ended in January 2018, and the current Vice Chancellor, Dr. Yajulu Medury, was appointed as Director in March 2018.

In 2020, MEC became Mahindra University – as the brainchild of Mr Vineet Nayar, former Vice Chairman of Tech Mahindra, with the aim of “educating future citizens for and of a better world”, driven by the need for multi-skilling, interdisciplinary academic education, and inculcation of entrepreneurial mindsets for future leaders. MU was established under the Telangana State Private Universities Act and Dr. Yajulu Medury was duly designated as Vice-Chancellor.

Beginning with the school of engineering, the university has steadily expanded its offerings over the last four years, offering 35 programmes across five schools and four centres at the undergraduate, post-graduate, and doctorate levels.

MU has established itself as a reputed technological school having a strong vision towards innovation and research in the field of engineering. The brand name of Mahindra and the partnership with CentraleSupélec forged a strong base in the city of Hyderabad to draw in young aspirants who sought a technical future.

2020 saw the beginning of the Ph.D. program in the Department of Engineering, as well as an intake in the newly instituted School of Law, School of Management, and the Indira Mahindra School of Education.

During 2022, M Tech Programme and 3 New B.Tech Programs were introduced.

In 2023, M.Tech in autonomous Electric Vehicles, Computer aided Structural Engineering, AI and Data Sciences and in B.Tech, Bio-technology, Computational Biology, Electronics & Communications Engineering were introduced. Under the School of Management, MU has introduced EMBA and Pd.D in Business Management. Under the School of Law, MU has introduced LLB.

In 2024, Ph.D in Life Sciences, M.Tech. in Computational Mechanics, Robotics, Systems Engineering, Transportation Engineering, VLSI Design and Embedded Systems. Working Professionals – Structural Engineering, B.Tech. in 5 Year Integrated Bio-Technology, 5 Year Integrated Computer Science and Technology, MBA - Business Administration under the School of Management, MA – Education in Indira Mahindra School of Education, School of Media - BA - Journalism and Mass Communication and B.Tech. - Computation & Media courses were introduced by MU. The École Centrale School of Engineering (in collaboration with École Centrale Paris), the School of Management, the School of Law, the School of Media, and the Indira Mahindra School of Education are currently operational. Two additional schools including the School of Hospitality Management are expected to be established in AY 2024-25.

MU has over ~4,100 students enrolled, approximately 10% of whom are at the postgraduate level. Situated in a sylvan ~100-acre campus in Hyderabad, MU has dedicated infrastructure, including research laboratories, hostels that accommodate over 3,500+ students, a 1,100-seat auditorium, faculty and staff accommodation, and dedicated sports facilities, including the recently inaugurated FIFA-certified Football Ground.

MU has partnered with leading global academic institutions, such as Centrale Supelec (erstwhile École Central Paris), Cornell SC Johnson School of Business, Virginia Tech, Babson College, the University of Florida, and La Trobe University, for curriculum building, student immersion and exchange programmes, faculty exchange programmes, and research collaborations.

The Mahindra University's School of Management has entered into an academic partnership with Cornell University's SC Johnson College of Business. The academic partnership between both institutes includes Cornell Faculty delivering guest lectures at MU, Academic Consulting, joint Curriculum Development, where Cornell faculty will help in designing the program and will teach in the program and Student summer Immersion,

where Cornell will host our talents on their Ithaca, NY campus and also e-Cornell Expert-Led Online Programs.

Having seen a tremendous growth in student and faculty intake, as well as in infrastructure the University is aiming to reach 7500+ students by 2025 – Mahindra University is growing exponentially with the support of Tech Mahindra and Pledge to Mahindra University from Mr Anand Mahindra.

## **2.2. Introduction to Mahindra Educational Institutions:**

Mahindra Educational Institutions was incorporated on 9th April 2013 with CIN U80300AP2013NPL086878, as a 100% subsidiary of Tech Mahindra Limited. MEI is a not-for-profit company set up under Section 25 of the Companies Act 1956 (corresponding to Section 8 of the Companies Act 2013).

Mahindra University (MU) was notified by the Government of Telangana vide Telangana Ordinance No. 1 of 2020 dated 20th May 2020 as per the Telangana State Private Universities (Establishment and Regulation) Act, 2018 for “educating future citizens for and of a better world”.

Mr. Anand Mahindra, the Chairman of the US \$20 billion Mahindra Group and the Executive Chairman of Mahindra & Mahindra Ltd, is the Chancellor of the University and he believes that professional courses have the greatest potential to contribute to economic inclusivity and sustainable development – which is consistent with the Mahindra RISE philosophy and vision.

The University aims to impart holistic education to a student population of around 10,000 students by 2030, offering both undergraduate, postgraduate and Ph.D Programs in diverse streams of education that include Business Management, Engineering & Technology, Design and Architecture, Media, Law, Education, Liberal/Applied Arts and Commerce, Life Sciences, Applied Sciences, etc.

Mahindra Ecole Centrale (MEC) established in 2014, has since been subsumed under the Mahindra University as the Ecole Centrale School of Engineering. MEC was set up by an agreement between Mahindra Educational Institutions (MEI – sponsoring body) and Ecole Centrale Paris (now known as CentraleSupélec) along with Jawaharlal Nehru Technological University Hyderabad (JNTUH). The Centrale Institutions comprise of Groupe des Ecole Centrale (GEC), CentraleSupélec, Ecole Centrale at Lyon, Nantes, Lille, Marseilles and Casablanca (Morocco).



Besides the existing programs in Civil Engineering, Computer Science Engineering, Electrical & Electronics Engineering, and Mechanical Engineering, the Ecole Centrale School of Engineering is offering 4-year UG programs of study in Electronics & Computer Engineering, Artificial Intelligence, and Computation and Mathematics, Mechatronics and Nano Technology were introduced from academic session of 2021-22.

The main objectives of MEI are:

- To establish institutions of higher learning such as setting up institutions, universities, colleges, academies, and research institutes encouraging education and research work in different disciplines.
- To promote innovation and technology development, to collaborate and/or affiliate with other universities in India and abroad for the cause of promoting quality higher education.
- To collaborate and cooperate with educational or other institutions in any part of the world by exchange of teachers and scholars and generally in such manner with the objective of promoting higher technical education.
- To undertake, collaborate or affiliate with any institution, trust, or any other organisation in India and abroad for establishment and running of educational institutions in different disciplines.

All Students, Faculty, Support Staff have been transferred to MU with effect from 1<sup>st</sup> July 2023. In effect, MEI is now becoming a more infrastructure and sponsoring entity for the activities of MU.

### **2.3. Corporate Social Responsibility U/s. 135 of Companies Act 2013:**

Every company having a net worth of INR 500 crore or more, or turnover of INR 1000 crore or more, or a net profit of INR 5 crore or more during any financial year, shall constitute a Corporate Social Responsibility Committee of the Board consisting of three or more directors, out of which at least one director shall be an independent director.

The Board of every company referred to in sub-section (1) to Sec 135 shall ensure that the company spends, in every financial year, at least 2% of the average net profits of the company made during the three immediately preceding financial years, in pursuance of its Corporate Social Responsibility policy.



## **2.4. Introduction to Corporate Social Responsibility and Impact Assessment**

Corporate Social Responsibility (CSR) is defined as an initiative by corporates to assess and take responsibility for the effect of the company's activities and operations on all aspects of society, including economic, social, and environmental, thereby covering the impact on the customers, employees, and shareholders of the organisation as well as on external communities, and the environment.

In this context, CSR is also referred to as 'corporate citizenship', as it entails incurring short-term costs that do not provide an immediate financial benefit to the company, but instead, promotes positive social and environmental change.

The scope of CSR activities broadly covers education; provision of water supply including drinking water; healthcare and organisation of health awareness camps; environment; social empowerment; and sports and culture.

The impact assessment of CSR focuses on the effects of such investments and showcase the tangible and intangible benefits of CSR projects to the stakeholders.

The impact assessment exercise helps in comprehending the tangible and intangible changes experienced by the beneficiaries as well as those being witnessed by their surrounding ecosystems.

This helps the stakeholders understand the overall outcome and impact of the projects, and aids in decision-making in terms of future investments to be made in CSR by the management.

The impact assessment exercise also aims to increase community participation and clarify how public policy helps achieve the goals and priorities of CSR activities.

## **2.5. Importance of Corporate Social Responsibility:**

- CSR improves the public image by publicizing the efforts towards a better society and increase their chance of being seen as a responsible organisation in the eyes of consumers.
- CSR helps companies to stand out from the competition when companies are involved in any kind of community.

- CSR increases media coverage as media visibility throws a positive light on the organisation.
- CSR initiatives make employees happier and more fulfilled.
- CSR enhances the company's brand value by building a socially strong relationship with customers.
- CSR increases customer loyalty.
- CSR initiatives opens up new opportunities to companies.

## **2.6.CSR Objectives of Tech Mahindra Limited:**

The objectives of CSR Policy of TechM are to:

- Demonstrate commitment to the common good through responsible business practices and good governance.
- Actively support and be part of the state's development agenda to ensure sustainable change.
- Set high standards of quality in the delivery of services in the social sector by creating robust processes and replicable models.
- Engender a sense of empathy and equity among employees of TML to motivate them to give back to the society.

## **2.7.Focus areas for CSR activities at Tech Mahindra Ltd:**

TML will implement its CSR activities in accordance with Section 135 of the Companies Act 2013 and the Rules notified thereafter.

Currently the CSR focus area for Tech Mahindra Ltd is promotion of Education. Within this broad theme, specific areas such as school education, education for employment, and technical education are included. Persons with disability and Women's Empowerment are cross-cutting themes in these focus areas.

The interventions in these thematic areas will be prioritized to reach the underserved segments of the population like women, economically and geographically disadvantaged, and vulnerable and marginalized populations. The company also lays emphasis on employee volunteering in all its CSR efforts. These programmes shall be implemented through two organisations: Tech Mahindra Foundation (TMF) and Mahindra Educational Institutions (MEI).

- **School Education:** Education is the tool for creating an empowered, enlightened society capable of rising to its full potential. Availability of

Quality Education for all classes is the way to ensure an equitable and just social system. TMF aims to improve the quality of school education in India through school improvement programmes, capacity building of all stakeholders and supplementary education.

- **Employability:** The TMF intends to support the Government of India's larger vision of skill development of youth through developing their market-oriented skills and linking them to potential employers. This programme seeks to benefit school drop-outs, people with disabilities, and those unable to get into higher education, among others with specific focus on women.
- **Technical Education:** Mahindra Education Initiative shall establish institutions of higher learning, promote research and development and collaborate with other renowned institutions to contribute towards the goal of high-quality technical education systems in India.

## 2.8. Constitution of the Board:

In pursuit of the above CSR objective of technical education, MEI has constituted a Governing Body and Board of Management, with the following members:

<b>Table 1: Governing Body of MU</b>			
<b>Sl.No:</b>	<b>Name of the Person</b>	<b>Position held at MU / Representing from</b>	<b>Role at MU</b>
1	Mr. Anand Mahindra	Chancellor, Mahindra University	Chairman
2	Dr. Yajulu Medury	Vice Chancellor, Mahindra University	Member
3	Ms. Shobana Kamineni	Executive Vice Chairperson of Apollo Hospitals	Member
4	Mr. Burra Venkatesam, IAS	Principal Secretary, HE Govt of Telangana	Member
5	Mr. Ranjan Pant	Ex Bain	Member
6	Ms Krishnakumai Palle	Tech Mahindra	Member
7	Mr Vineet Nayyar	Ex Tech Mahindra	Special Invitee
8	Mr CP Gurnani	Ex Tech Mahindra	Special Invitee
9	Col. Rajive Chauhan	Registrar, Mahindra University	Non-Member Secretary

<b>Table 2: Board of Management - MU</b>		
<b>Sl.No:</b>	<b>Name of the Person</b>	<b>Role</b>
1	Mr. Vineet Nayyar	Chairman Emeritus
2	Dr. Yajulu Medury	Chairman
3	Mr. CP Gurnani	Member
4	Prof. Mukti Khair	Member
5	Mr. Zhooben Bhiwandiwal	Member
6	Mr. Ulhas Yargop	Member
7	Ms. Anuja Mahindra Sharma	Member
8	Mr M.M.Murugappan	Member

9	Dr. Anish Shah	Member
10	Mr. Mohit Joshi	Member
11	Mr. Harshvendra Soin	Member
12	Prof. Bishnu Pal	Member
13	Prof. Arya Kumar Bhattacharya	Member
14	Prof. Balakista Reddy	Member
15	Prof. Srinivasa Rao Srunagarapu	Member
16	Prof. Rajinder Chauhan	Member
17	Prof. Sashidhar Nanjundiah	Member
18	Mr Shivanand Raja	Special Invitee
19	Mr Milind Kulkarni	Special Invitee
20	Col. Rajive Chauhan	Non Member Secretary

## 2.9. Implementation of CSR activities at Tech Mahindra Limited:

The Company's CSR programme is identified and implemented according to the Board's approved CSR policy. This CSR Policy builds on the learnings from and good practices of the Company's ongoing CSR activities.

To ensure its monitoring and evaluation mechanism, the policy has:

- clearly defined objectives (developed out of existing societal needs determined through baselines/studies/research), targets and time lines.
- a robust progress monitoring system.
- impact assessments conducted by independent third-party agencies (such as this reporting agency).
- a reporting framework and system in alignment with the Act and Rules.

## 2.10. Activities of MU during 2023-24:

In the academic session 2023, 1631 students were admitted into various courses of B.Tech, M.Tech, School of Management, School of Law, School of Media, IMSOE and Ph.D programs of the University.

Mahindra University has conducted its annual cultural and sports event TARANG 2023 on 18<sup>th</sup> October 2023. Students also participated in multiple intra-college sports tournaments and cultural events which saw students winning medals and accolades for the university.

The University has also conducted The Indo-US Workshop on Artificial Intelligence and Data Science - Chapter 2 in association with the University of

Florida in Dec 2023. The workshop covered extensively various topics that include AI, ML, Data Science participated by distinguished professors and academicians of repute.

The University also held the 3<sup>rd</sup> Annual Conference of the Indo-German Centre for Business Excellence showcasing the challenges and opportunities presented by the convergence of manufacturing and ICT in the emerging industry era. This event was held for the first time in India at MU.

The University also conducted the first International Conference on Cyber-Physical Systems, Power Electronics and Electric Vehicles (ICPEEV 2023) in Sep 2023. The conference provided a platform to for sharing of ideas in the fields of IoT, Cyber-Physical Systems, Power Electronics, Electric Vehicles and Vehicle Engineering.

MU held the Third International Conference on Emerging Techniques in Computational Intelligence 2023. The topics covered were computational Intelligence, Deep Learning and Computer Vision, Computational Sequence modelling, and Applications in Industry and Society.

MU Students have won the Smart India Hackathon 2024 Software Edition for the 4<sup>th</sup> consecutive year. The University has conducted around 10+ webinars in the year 2023-24.

MU has signed an MoU with La Trobe University, Australia a world class University in the areas of Civil Engineering.

The Centre of Life Sciences of MU has entered into an MoU with M/s. Absolute, a leading Biosciences Company.

MU celebrated the World Yoga day to enlighten spirits and fostering the well-being, leading to the harmony of body, mind, and soul.

The university intends to focus on developing Centres of Excellence (CoE) across several domains. The CoEs will provide a meeting ground for like-minded researchers to work and collaborate on areas of mutual interest. The CoEs are an important component of the University's vision in establishing global and national research and development opportunities to the faculty and students alike.

On the whole, apart from these events, the University also conducted 30+ seminars, International Conferences, expert talks, and workshops that benefited students to gain knowledge and enhance networking skills.

### 3. Scope of Impact Assessment Study:

In pursuit of TechM's CSR Policy, and its philosophy of obtaining an independent assessment of the initiatives undertaken by MEI, this impact assessment was awarded to CA JSS Sivarama Prasad, Chartered Accountant, Hyderabad.

#### 3.1. Objectives of the Study:

This assignment addresses the following objectives:

- a. Capture tangible and intangible impact of the Contributions made by TechM to MEI during the Financial Year 2023-24.
- b. To establish end use of Funds / Contributions received by MEI from TechM.
- c. To Assess impact of the Contributions given to MEI.
- d. To examine whether the impact created matches with the planned objectives of Contributions given by TechM as part of its CSR initiative.
- e. To suggest measures for improvement, if any, or course correction in case of on-going initiatives.

#### 3.2. Resources deployed on the assignment:

The impact assessment team for this study includes:

- a. **CA JSS Sivarama Prasad**, Chartered Accountant has 25 Years of experience in the fields of Investigation and Audits and has executed several successful projects in India, China, USA, UK, UAE and Africa. He has participated in several varied activities that include drafting of formation documents and review of activities for SERP (Society for Elimination of Rural Poverty), APVRF (AP Vulnerability Reduction Fund) Trust, Viksit Bharat Foundation, initiated by Hon'ble President of India Shri APJ Abdul Kalam.

Apart from being a Chartered Accountant, Sivarama Prasad is a Founder Trustee and Board Member of :

1. **Sri Ramachandra Foundation**, established in 2021 with the objectives to spread Vedic education and to teach the methods of Pranahuti

supported meditation to earnest seekers of spirituality across the globe. Currently operating from Hyderabad, Bengaluru, Chennai, New Delhi and Pune in India; Fremont, San Francisco, Dublin, Santa Clara, Atlanta, Phoenix, Dallas, Minneapolis in USA and Toronto in Canada.  
<https://www.pranahutiyoga.org>

2. **Gandhi King Foundation** was established in 2011 as a Charitable Trust in Hyderabad, India to promote 'Sarvodaya Social Order' a Nonviolent, Nonexploitative Society based on the principles of Truth, Nonviolence, Equality, Justice and Human Values. Currently working from Hyderabad, in India and San Francisco, USA. GKF conducts International Youth exchange programs, Skills development programs to Teachers and Students, Youth Volunteering programs, Rural Development Programs, Introducing Gandhian Thought to Students, etc. <https://www.gandhikingfoundation.net/about-us>
3. Board Member of **Vasavya Society for Rural Development - VASORD** established in 1983 working in the areas of rural development, *Gram Swaraj*, health, education, volunteering and sustainable development.
- b. **Chiteisri Devi** holds a Master's degree in Anthropology, Environment and Development from University College, London (UCL) and an undergraduate degree in Law from ILS Law College, Pune. From 2016 to 2020, she worked with the Sustainable Development Solutions Network (SDSN) (<https://www.unsdsn.org/>) as a Research Associate and then as an Education Manager with the SDG Academy– which is the SDSN's flagship education initiative. Her role included the production of content modules of ~20 courses, advocacy towards the SDGs, social media outreach and periodic evaluation of the overall program in monitoring the UN's progress towards the SDGs. Her areas of focus include gender, education and environmentalism.
- c. **Sai Shanker Bukka** is a Cost Accountant with 25 Years of varied experience in the key areas of Accounting, Finance, Audit and Management of nation-wide large entities in the field of Telecom, Infrastructure, Banking and Capital Goods Manufacturing activities. He carries hands on implementation experience in SAP function for large corporates.
- d. **CA U. Chandrasaha Phanindra** is a Chartered Accountant and CISA qualified professional. With 4 Years of post-qualified experience in conducting audit and accounting assignments apart from Direct and Indirect Tax compliance and regulatory consultancy. He has good exposure in Systems Audit and is conversant with SAP, Tally ERP, MS-Office to perform the financial operations and data analysis.



- e. **Sridhar PV** holds a Master's Degree in Business Finance and carries more than 2 decades of work experience in the areas of Accounting, Auditing and has good exposure in ERP management as an end user to perform the financial operations and data analysis.

### 3.3.Limitations:

This study is limited by the accuracy of the data received from various departments on short notice.

We have attempted to deliver a comprehensive overview of the impact assessment to the best that we could, within the said deadlines. Due to paucity of time, this year, we could not conduct interviews with faculty and students.

## 4. Impact Assessment of MEI:

### 4.1. Qualitative Assessment of MEI:

In this chapter, we discuss the findings from the qualitative survey. The impact assessment exercise relies on an intensive examination and interpretation of the experiences of various stakeholders, over and above the quantitative survey.

Hence, we made an effort to gather data using qualitative tools. This included interviews with the beneficiaries and stakeholders, site visits, review of the capex works undertaken and corroboration of the data received from MEI.

The insights gathered by this survey were all based on information that was received anonymously – but we did ensure that all the respondents were *bonafide* members of the institution.

#### 4.1.1. Methodology

We have used multiple methods by collection of data pertaining to:

1. Primary study of CSR spent on the project, by data collection from the beneficiary apart from survey on the locations of beneficiary, in-depth interviews/discussions with the Management team of MEI.
2. Site visits and study of works executed.
3. Review of documentation pertaining to infrastructure setup by using the contributions given by TechM.
4. Discussions with stake holders (Registrar, CFO, Finance Team, VC Secretariat).
5. Collection of quantitative data and qualitative information from beneficiaries.

#### 4.1.2. Profile of the Sample analysed:

During our week-long visit to MU in April 2024, we had the opportunity to speak and interact with a cross-section of the Management.

Care was taken to have a prolonged interaction with select members who are direct stakeholders such as the Vice-Chancellor, Registrar, CFO, Corporate Services Manager, Admin head, HR Department and members of Finance team.

#### 4.1.3. Profile of UG Students admitted into University:

During the current academic year 2023-24, MU has admitted 1631 Students for Under Graduate, Post Graduate and Ph.D Courses.

As contemplated, the university is witnessing an increasing number of admissions which can be positively construed for the increased number of girls, as well as participation from across the country.

The data suggests that Brand 'TechM' has an outreach that is growing due to the Brand MU – which is in-line with the CSR vision of TechM.

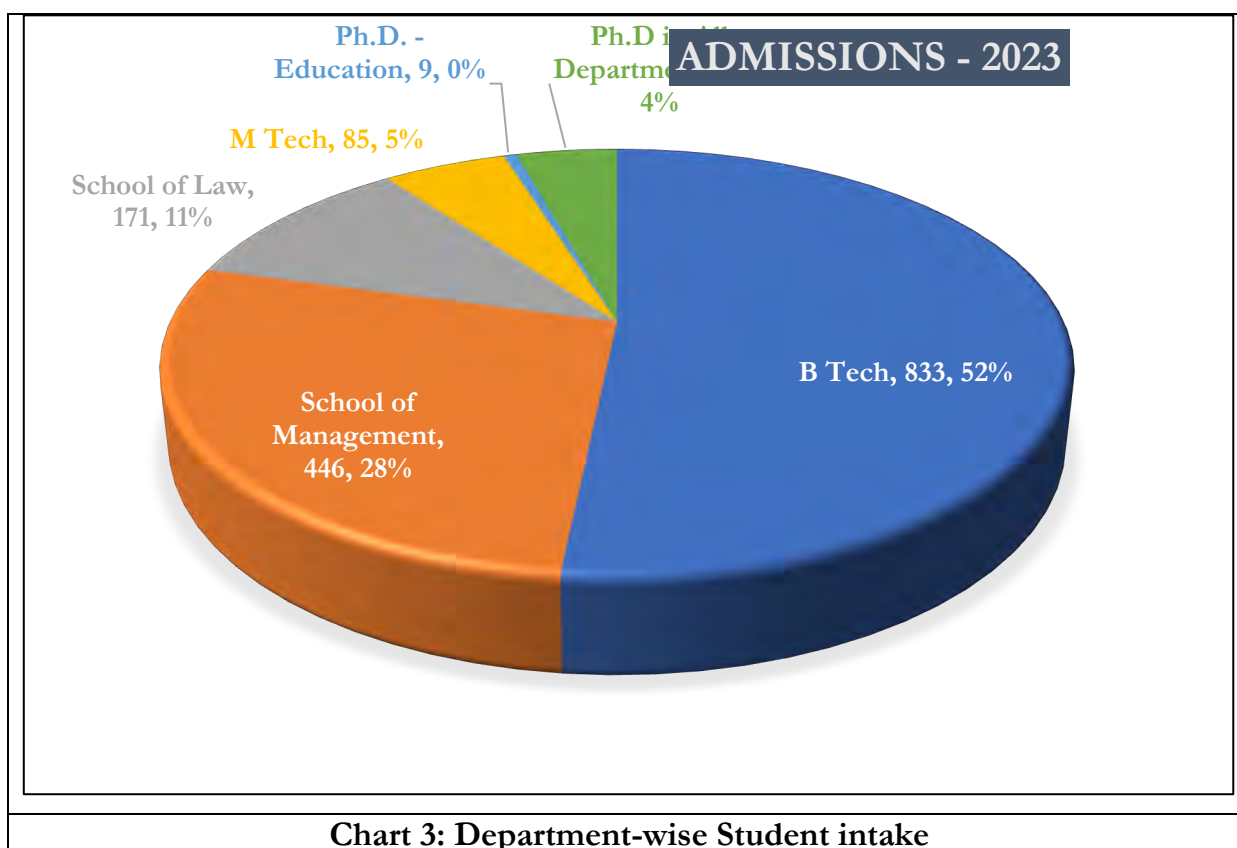
The following are the details: **MU Admissions**

Sl No	Year	2023-24
1	Total Admissions	1555
2	Total Applications Received	15435
3	NRI Applications	287
4	Admissions North & East	89
5	NRI Admissions	160
6	Total No. of Offers Made	3703
7	Total Offers Accepted	1871
8	Total Cancelations	316
9	Admitted Students Gender% (Boys : Girls)	59:41
10	Admitted Students % (Telangana & AP: Outside)	89:11

#### 4.1.4. Student intake for the academic year 2023:

MU has enrolled 1631 freshers under various Programs for the academic year 2023:

Table 4: Program-wise Admissions			
Sl No	Program Name	Type UG/PG	Batch 2023
1	B Tech	UG	833
2	School of Management	UG	446
3	School of Law	UG	171
4	M Tech	PG	85
5	Ph. D – Education	Ph.D	9
6	Ph.D in all Departments	Ph.D	69
7	IMSoE	UG	4
8	Media	UG	14
	<b>Total</b>		<b>1631</b>



Program wise enrolment of Students for the academic year 2023:

<b>Table 5: Program-wise enrolment of Students for the year 2023</b>			
<b>S.No</b>	<b>Program Name</b>	<b>Type UG/PG</b>	<b>Batch 2023</b>
1	Computer Science Engineering	UG	228
2	Artificial Intelligence	UG	159
3	Electronics & Computer Engineering	UG	80
4	Computation & Mathematics	UG	32
5	Mechanical Engineering	UG	29
6	Civil Engineering	UG	30
7	Electrical and Electronics Engineering	UG	0
8	Mechatronics	UG	40
9	Nanotechnology	UG	12
10	Bio Technology	UG	61
11	Computation and Biology	UG	21
12	Electronics and Communication Engineering	UG	66
13	5 year Integrated Bio-Technology	UG	7
14	5 Year Integrated Computer Science and Technology	UG	68
15	BA	UG	20
16	BBA - Digital Technologies	UG	271
17	BBA - Computational Business Analytics	UG	91
18	MBA	UG	37
19	EMBA	UG	12
20	PhD - Business Management	Ph.D	15
21	BA, LLB (H)	UG	44
22	BBA, LLB (H)	UG	105
23	LLB	UG	22
24	M Tech	PG	85
25	Ph.D. - Education	Ph.D	9
26	MA - Education	PG	4
27	Ph.D in All Departments	Ph.D	69
28	BA - Journalism & Mass Communication	UG	12
29	B.Tech - Computation & Media	UG	2
<b>Total</b>			<b>1631</b>

#### 4.1.5. Program outcomes of School of Engineering at MU:

Mahindra Ecole Centrale when established in 2014, laid a clear code for the expected outcome in the engineering program. These principles show that the quality, consciousness, and futuristic approach are core philosophy of the institute. These are the illustrated highlights which are visibly seen to guide and inspire the current and future leadership of MU. Therefore, we used these points as a tool in our methodology to collect qualitative insights from all our respondents. The program outcomes are listed as under:

- **Engineering knowledge:** apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialisation to arrive at the solution for complex engineering problems.
- **Problem Analysis:** Identify, formulate, review research literature and analyse complex engineering problems reaching substantiated conclusions using the principles of mathematics, natural sciences and engineering sciences.
- **Design/Development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations
- **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design or experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of limitations.
- **The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts

and demonstrate the knowledge of and need for sustainable development.

- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and Teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design document, make effective presentations, and give and receive clear instructions.
- **Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work as a member/leader in a team, to manage projects and in multi-disciplinary environments.
- **Life-long learning:** Recognise the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

#### 4.1.6. List of Patents Filed/Published/Granted during the year 2023-2024:

1. Shrawan Kumar, Saba Parveen, Hira Singh Gariya, Souradyuti Ghosh, Mrityika Sengupta, "Functional Nucleic Acid Assembly and Uses Thereof", Indian Patent Filed on 27/11/2023; Application Number: 202341080341; Publication Date: 05/04/2024
2. Sreedhar Madichetty, Avulamanda Ushaswini, "Suppression of Gate-Source Voltage Oscillations of Gan Devices by Using Op-Amp Based Clamping Circuit", Indian Patent Filed on 22/12/2023; Application Number: 202341087894; Publication Date: 12/01/2024
3. Sreedhar Madichetty, Koduru Sriranga Suprabhath, Machina Venkata Siva Prasad Chowdary, Banda Mohan Krishna, "Twin Neural Network Based Detection and Mitigation of False Data Injection Attacks On DC-DC Converters", Indian Patent Filed on 22/12/2023; Application Number: 202341087895; Publication Date: 12/01/2024

4. Sreedhar Madichetty, Koduru Sriranga Suprabhath, Machina Venkata Siva Prasad Chowdary,” Design of Data Driven Unified Controller For Control And Cyber Attack Detection & Mitigation In Power Electronic Converters”, Indian Patent Filed on 22/12/2023; Application Number: 202341087896; Publication Date: 12/01/2024
5. Sreedhar Madichetty, Nandavaram Banda Shanthi Kumar, “ A Dual Function Based Boost Inductor for IV Curve Tracer and Boost Converter Operation”, Indian Patent Filed on 22/12/2023; Application Number: 202341087893; Publication Date: 12/01/2024
6. Sreedhar Madichetty, Rama Krishna Mogilinedi, “Active Cooling Systems Without any Power Requirement”, Indian Patent Filed on 22/12/2023; Application Number: 202341087897; Publication Date: 12/01/2024
7. Sreedhar Madichetty, Pannela Gowthami, ” A Hybrid MPPT-Based Variable Frequency Drive (VFD) For Induction Pumps Along With Remote Operating Facilitated by Additional Modular Hardware”, India Patent Filed on 21/12/2023; Application Number: 202341087891; Publication Date: 12/01/2024
8. Sreedhar Madichetty, Shaik Mahammad Firoz, “Solar-Powered Electric Vehicle Charging System with Maximum Power Extraction and CCS Protocol Integration”, India Patent Filed on 22/12/2023; Application Number: 202341087892; Publication Date: 12/01/2024
9. Sreedhar Madichetty, Durga Mahesh Natham, “A Compact Dual-Mode Converter for Dynamic Energy Optimization”, Indian Patent Filed on 21/12/2023; Application Number: 202341087885; Publication Date: 12/01/2024
10. Sreedhar Madichetty, Pannela Chandrakala, “An Instantaneous and Sensorless Approach for Identifying the Precise Location of Mismatched/Faulty Panels in an Spv Array”, Indian Patent Filed on 21/12/2023; Application Number: 202341087876; Publication Date: 12/01/2024
11. Sreedhar Madichetty, AbeeB Akorede Bello, “Flexibility and Optimization with Accurate Object Identification with Multifused Deep Learning Technique”, Indian Patent Filed on 22/12/2023; Application Number: 202341087898; Publication Date: 12/01/2024
12. Manish Kumar, Divye Kalra and Ramakant Yadav, “A Device and Method for Light Weight Stream Cipher”, Indian patent filed on 10/06/2023; Application Number: 202311039798; Publication Date: 08/12/2023
13. Sayali Shrishail Harke, Dr. Chitra Gurnani,” Method for Preparation of M2S3 (M=Sb or Bi) Films at Low-Temperature”, Indian patent filed on 13/04/2023; Application Number: 202341027475; Publication Date: 02/02/2024
14. Rama Murthy Garimella, “Implementation of Rank Order Filters using Threshold Decomposition”, Indian patent filed on 08/03/2023; Application Number: 202341015471; Publication Date: 01/09/2023
15. Kondaiah Pulla, Mahesh Kotagiri, “Mechanical Energy Amplifier”, Indian patent filed on 27/06/2023; Application Number: 202341042869;
16. Smriti Gaur, Suraj Kumar Modi, Dr. Manu Smriti Singh, Dr. Mrityika Sengupta, “Bacteriophages Against Clinical Methicillin Resistant Staphylococcus Aureus



- Isolates as Potential Therapeutic Agents”, Indian patent filed on 11/07/2023; Application Number: 202341046610;
17. Dr. Sreedhar Madichetty, Nandavaram Banda Shanthi Kumar, Jayakeerth Vardhan Kilaparthi, Vishwagnya Thudi, Abdul Kareem Shaik, “An Innovative System with Additional Modular Hardware Based Dual Phase Algorithm to Detect Mismatched Modules in Solar PV Farm”, Indian patent filed on 14/07/2023; Application Number: 202341047403; Publication Date: 24/11/2023
  18. Sreedhar Madichetty, Nandavaram Banda Shanthi Kumar, Nandini Somarapu, “A Highly Efficient Methodology for Solar PV Farms by Using Synchronous Bypass and Blocking Switches”, Indian patent filed on 20/05/2022; Application Number: 202241029100; Publication Date: 18/11/2022; Date of Grant: 11/03/2024; Patent No: 523149
  19. Yeturi Pramod Kumar Reddy, Sri Kalyana Rama Jyosyula, Visalakshi Talakokula and S V Simhadri Raju, “High Performance Plaster Coated Light Weight Composite Wall Panels”, Filing Date: 10/10/2022; Application Number: 202241057712; Publication Date: 30/12/2022; Date of Grant: 05/01/2024; Patent No: 495454
  20. Sebastian Uppapalli and Prasad Pokkunuri “Method and System for Heat Transfer Enhancement in Solar Particle Receivers”, Indian patent filed on 14/12/2021; Application Number: 202141058153; Publication Date: 07/01/2022; Date of Grant: 01/01/2024; Patent No: 492467
  21. Dibakar Roy Chowdhury, and Koijam Monika Devi, “A Topological Waveguide Device and its method for Dispersion less Slow Light Transmission at Terahertz (THz) Frequencies”, Indian patent filed; Application number: 202141033040; Filed on 22/07/2021; Publication Date: 24/12/2021; Date of Grant: 15/12/2023; Patent No: 483683
  22. Dibakar Roy Chowdhury “Multilayered (Super-Lattice) Metamaterials-Based Terahertz Spintronic Devices and its Method of Fabrication”; Application Number: 202141026818, Filed on 16.06.2021; Publication Date: 24/12/2021; Date of Grant: 20/09/2023; Patent No: 453039
  23. Dibakar Roy Chowdhury, Subhajit Karmakar, Ravi Varshney, Sabyasachi Banerjee and Deepak Kumar “Stacked Fano Resonant Metamaterial Based Thin Film Sensor”; Application Number: 202041003489; Date of Filing: 27/01/2020, Publication Date: 01/05/2020; Date of Grant: 29/12/2023; Patent No: 491812
  24. Chitra Gurnani, Sai Madhavan and Sai Tati Teja, “Portable Modular Interlocking and Low-Cost Redox Flow Cell Stack Unit” Filed Patent application number is 202041048937 on 10 Nov 2020; Publication Date: 24/12/2021; Date of Grant: 11/01/2024 ; Patent No: 497642

#### 4.1.7. Functional Departments at MU for the academic year 2023-24:

In pursuit of achieving the abovementioned Program Outcomes, the MU has formulated various Departments within the School of Engineering.

Approaching the technical training of engineering with the lens of Humanities, Natural and Social Sciences and lateral thinking suggests that a holistic outlook towards education is sought for through the processes laid out by the MEI.

##### 4.1.7.1. List of Academic Departments under - Ecole Centrale School of Engineering:

Table 6: Engineering Departments at MU	
Sl. no	Name of the Department
1	Department of Physics
2	Department of Chemistry
3	Department of Mathematics
4	Department of Humanities & Social Sciences
5	Department of Electrical and Electronics Engineering
6	Department of Civil Engineering
7	Department of Mechanical Engineering
8	Department of Computer Science and Engineering

<b>Table 7: Other Academic Departments at MU</b>	
<b>Sl. no</b>	<b>Name of the Department</b>
1	School of Management
2	School of Law
3	School of Education
4	Indira Mahindra School of Education
5	Media

#### 4.1.7.2. List of Non-Academic Departments:-

<b>Table 8: Non-Academic Departments</b>	
<b>Sl no</b>	<b>Name of the Department</b>
1	VC Office
2	Human Resources
3	Registrar Office
4	Admission & Marketing
5	Placements
6	Finance
7	Branding & Communication
8	Corporate Services
9	IT
10	Library
11	Examination
12	Research
13	Lab Assistants
14	Hostel Wardens
15	Student Affairs
16	Clinic

## 4.2. Financial Assessment of MEI:

### 4.2.1. Amount spent by Tech Mahindra towards CSR initiatives for the FY 2023-24:

MEI has spent an amount of Rs. 76.02 Crores out of CSR initiatives implemented at MU campus towards infrastructure development for the Financial Year 2023-24. The deployment CSR funds have been utilised under the following categories:

Table 9: Utilisation of CSR Funds by MEI				
Sl No	Utilization	Unit	Quantity	Amount (Rs. In Crs)
1	Research Scholar Block (Partial Expenditure)	Nos	100	6.29
2	Hostel III(Construction of 100 Units of Research Scholar block (Partial expenditure)	SFT	61,991	29.96
3	Hostel IV A(Expenditure for 76 Twin Sharing rooms)	SFT	53,252	18.31
4	Guest House (28 Twin Sharing rooms, 30 Executive Rooms & 8 Suite rooms (Partial expenditure)	SFT	74,099	6.97
5	SB Dining (Cafeteria for Girls )	SFT	17,072	2.39
6	Mahindra E Hub(Mahindra e Hub at IT Block LGF)Partial Expenditure	SFT	11,298	1.72
7	IT Class rooms (3 X 180, 3 X 90, 3 X 60, 3 & 30 seater classrooms, 4 conference rooms and lounge areas) Partial Expenditure	SFT	11,298	5.56
8	Task Building (Ground Floor Workshop with 40 seating capacity, First floor – 2 X 36-seater training rooms and 2 cabins, Second floor – 1 X 40-seater classroom.) (Partial Expenditure)	SFT	15,000	1.04
9	Admission Office & Auditorium (Partial Expenditure)	SFT	19,848	1.99
10	Soccer Field Works (Partial Expenditure)	SFT	1,10,925	1.79
	<b>TOTAL</b>			<b>76.02</b>

**4.2.2. Amount spent on R&D activities:**

MU has spent an amount of Rs. 50.06 Lakhs towards the following projects:

<b>Table 10: List of R&amp;D Projects undertaken</b>				
<b>Sl No</b>	<b>Project Title</b>	<b>Organization</b>	<b>Faculty</b>	<b>Department</b>
1	Design Optimization of Turbine Nozzle Guide Vane Three Dimensional Air Foils	Aeronautics Research and Development Board (ARDB), DRDO	Dr. Ravi K Bompelly, Prof. Debasis Chakraborty	ME
2	Simulation of relativistic astrophysical flow problems using modern efficient stable schemes	SERB - SURE	Dr. Biswarup Biswas	Mathematics
3	Design of Boost Converter	India Nippon Electricals Limited	Dr. Sreedhar Madichetty	ECE
4	Design of DC-DC Converter	India Nippon Electricals Limited	Dr. Sreedhar Madichetty	ECE
5	Testing Machine for DC-DC Converters	India Nippon Electricals Limited	Dr. Sreedhar Madichetty	ECE
6	Design of Cost-Efficient SRAM in Quantum Dot Cellular Automata Technology for Low Power Applications	SERB - SURE	Dr. Pooran Singh	ECE
7	Yadadri: A Devotional Capital, Diasporic Networks, and a 21st Century Telugu Identity in the Making	ICSSR	Dr. Nisha Mary Mathew; Flame University - Pune; TISS Hyderabad	Law
8	Metamaterials Inspired Slow Light Photonics for Information and Sensing Related Application	SERB-STAR	Prof. Dibakar Roy Chowdhury	Physics

9	Quality control of pavement layers constructed with C&D waste by LWD device	iHub-Data - IIIT Hyderabad; IHub Mobility Fellowship 2023	Dr. Hari Parsad Chennarapu; Mr. Vamsi, Mr. Sidhu Ramulu, and Mr. Prabodh	Civil
10	Development of an Autonomous Aerial Robotics System for Harvesting (AARSHa) Coconuts	NMICPS TiHAN Foundation at IIT Hyderabad	Dr. Janardhan Vistapalli; Dr. Sreedhar Madichetty; Silov Solutions Pvt. Ltd.	ME, ECE
11	Dynamic fracture at a non-planar interface	SERB - CRG	Dr. Ranjith Kunnath	ME
12	Aptamer discovery and electrochemical biosensing of bioactive metabolites during gamma irradiation induced elicitation and sterilization	CEFIPRA	Dr. Souradyuti Ghosh and Université Grenoble Alpes, France	Life Sciences
13	Atal Incubation Center	Atal Innovation Mission of NITI Aayog	Prof. Rajkumar Phatate	HSS
14	The 10th International Congress on Industrial and Applied Mathematics (ICIAM 2023), Japan (20 August, 2023 to 25 August, 2023)	SERB - ITS	Dr. Meraj Alam	Mathematics
15	Ultra Low Temperature Failure Prediction	Thermo Fischer Scientific India Pvt. Ltd.	Prof. Arya Kumar Bhattacharya	CSE
16	Development of Data-Driven Modeling Using Machine Learning Methods for Aerodynamic Configuration Design & Optimization	Defence Research and Development Laboratory (DRDL), DRDO, Ministry of Defence, GoI	Prof. Arya Kumar Bhattacharya	CSE

17	Developing Nutrient-Enrichment Technologies & Products of Commercial Value in a Nutraceutical Food Crop, Buckwheat ( <i>Fagopyrum</i> spp)	DBT	Prof. Rajinder Singh Chauhan; GB Pant University of Agriculture & Technology, Pant Nagar, Uttarakhand; ICAR-National Bureau of Plant Genetic Resources, Shimla, HP	Life Sciences
18	Evaluation of in-house designed portable electrochemical workstation device and screen-printed electrodes against their commercial counterparts for nucleic acid amplification and ELISA methods	iHub-Data, IIIT-Hyderabad	Dr. Souradyuti Ghosh, Dr. Bharghava Rajaram, Dr. Mrittika Sengupta	Life Sciences and ECE
19	Development of synthetic polymer-based ink materials as an alternative for 3D bioprinting	SERB - CRG	Dr. Sonu Kumar	Chemistry
20	Bogomolov Multiplier of finite Groups	SERB - MATRICS	Dr. Pradeep Kumar Rai	Mathematics
21	Weak Grid Integration of Bulk Wind Energy Resources	SERB - NPDP	Dr. Siva .J, Dr. Sreedhar Madichetty	ECE
22	Design and Development of ZnFe <sub>2</sub> O <sub>4</sub> Layers with Low Gilbert Damping for Efficient Spin Current in Heavy Metal/ZnFe <sub>2</sub> O <sub>4</sub> Heterostructures	SERB - CRG	Prof. Murtaza Bohra, Dr. Anil Annadi	Physics
23	Mechanism of beta adrenoreceptor signaling regulation in mesenchymal stromal cells during aging	SERB-SRG	Dr. Pijus Kanti Barman	Life Sciences

#### 4.2.3. Infrastructure at MEI:

MEI has initiated various infrastructure related developments which contributed in furtherance of the objective of imparting technical education.

An amount of Rs. 62.10 Crores was contributed by TechM during 2023-24 towards setting up cutting-edge infrastructure. The funds given by TechM were well utilised by the MEI.

The University has the required infrastructure commensurate with the current strength of students & courses.

Table 11: Current Infrastructure		
Sl.No	Description	No
1	Research Scholar Block (Studio Apartments)	100
2	Hostel III (Twin Sharing rooms)	189
3	Guest House 28 Single occupancy (SO), 30 Double occupancy (DO) and 8 suit rooms (SR)	1
4	Executive Dining Hall @ Research Scholar Block)	1
5	Student Council Centre & Branding Office	1
6	Admission & Marketing Office	1
7	1100 seated Auditorium	1
8	BT Labs (Life Sciences Labs @ IT2 LGF)	1
9	Mahindra e Hub @ IT2 LGF	1
10	Fluid Mechanics Lab	1
11	Robotics Lab	1
12	Placement Office	1
13	Transportation Engineering Lab	1
14	IT 1 Second Floor Class rooms (3 X 180, 3 X 90, 3 X 60, 3 & 30 seater classrooms, 4 conference rooms and lounge areas)Partial Expenditure	1
15	Task Building (Ground Floor Workshop with 40 seating capacity, First floor – 2 X 36 seater training rooms and 2 cabins, Second floor – 1 X 40 seater classroom.) (Partial Expenditure)	1
16	SB Dining ( Cafeteria for Girls)	1
17	Soccer Field & Athletic Track	1



**4.2.4. Infrastructure built at MEI using CSR funds given by Tech Mahindra during 2023-24:**



Picture 1: Research Scholar Block



Picture 2: Interiors: Research Scholar Block



Picture 3: Interiors: Research Scholar Block



Picture 4: Hostel III



Picture 5: Interiors - Hostel III



Picture 6: Hostel IV



Picture 7: Guest House



Picture 8: Interiors - Guest House





Picture 9: Girls Dining Block (SB Dining)



Picture 10: Interior - Girls Dining Block (SB Dining)



Picture 11: Mahindra E Hub



Picture 12: Interiors - Mahindra E Hub



Picture 13: IT1 Class rooms



Picture 14: IT1 Class rooms



Picture 15: TASK Building



Picture 16: Interior - TASK Building





Picture 17: Admission & TIM Office



Picture 18: Interior - Admission & TIM Office

#### 4.2.5. Direct beneficiaries of CSR Contributions:

Students getting educated at Mahindra University are absorbed by Corporates across India. This confirms to the upgraded skills of students enrolled by the University and in itself an acknowledgement that the courses designed are in tune with corporate expectations and market requirements.

##### 4.2.5.1. Students of MU placed at Corporates during Year 2023-24:

The details of Program wise students placed during the year 2023-24 is given as under:

Table 12: Program wise Placement of Students		
Sl No	Program	No of Students Placed
1	Computer Science Engineering	68
2	Electrical and Electronics Engineering	44
3	Mechanical Engineering	42
4	CASE	1
4	Civil Engineering	4
	<b>Total</b>	<b>159</b>

<b>Table 13: Company wise Placement of Students</b>		
<b>Sl No</b>	<b>Company Name</b>	<b>No of Students Placed</b>
1	ADP	10
2	5th Bridge Technologies	4
3	Aliens Group	1
4	Analytics Quad4	11
5	Berkadia	1
6	BigBuddy	4
7	Clarivate	3
8	Cognida.Ai	1
9	Coinmint	1
10	Continual Engine	1
11	CUR8	2
12	Dassault Systems	1
13	Datalink Software	2
14	Dell	12
15	Dhan.AI	5
16	Dish Network	3
17	Edu-versity	1
18	Externsclub	6
19	Equinix	3
20	Futures First	2
21	Futuristic Labs	1
22	Growth Arrow	2
23	Guise.ai	1
24	GreenBox Company(Rockwell)	2
25	IBM	1
26	Infinite Computer Solutions	1
27	Intellipaath	5
28	JSW TalenTech	1
29	Jocata	2
30	Juniper Networks	2
31	Keka HR	2
32	Kofuku Idea Labs	2
33	L&T	4
34	Log9 Materials	1
35	Make My Trip	1
36	Mahindra & Mahindra	5
37	Mind Graph	6

38	Mordor Intelligence	1
39	NowFloats Technologies	2
40	Oracle	3
41	Portea Medical	1
42	Ramboll India	1
43	Recruit CRM	1
44	SAFERTEK IT Sol Pvt Ltd	1
45	Schlumberger	4
46	Strategic Research Insights	3
47	Synopsys	1
48	Safertek IT Sol Pvt Ltd	1
49	Tata Advanced Systems Ltd	4
50	TCS	3
51	TekLink	1
52	Technip FMC	2
53	Temperate Technologies	2
54	Thermo Fisher	8
55	TransGraph	1
56	ZetaOpt India	1
57	ZIGRAM	5
<b>Total</b>		<b>159</b>

#### 4.2.6. Indirect Beneficiaries of CSR Contribution:

The indirect beneficiaries of CSR initiatives of Tech Mahindra Ltd for the year 2023-24 include the following:

##### 4.2.6.1. Department-wise Faculty & Staff at MU (Teaching & Non-Teaching staff) for the academic year 2023:

A team of 208 Teaching Staff and 168 Non-Teaching Staff rendering services of excellence at MU. The department wise distribution of the same is tabulated as under:

<b>Table 14: Department wise faculty</b>			
<b>Sl. No</b>	<b>Department</b>	<b>T/NT</b>	<b>MU</b>
1	Department of Natural Sciences	Teaching	24
2	Department of Humanities & Social Sciences	Teaching	21
3	Department of Engineering and	Teaching	71

	Sciences		
4	School of Management	Teaching	24
5	School of Law	Teaching	26
6	School of Education	Teaching	8
7	Centre for Entrepreneurship & Innovation	Teaching	6
8	Centre for Executive Education	Teaching	1
9	Centre for Sustainability	Teaching	2
10	Centre for Life Sciences	Teaching	19
11	School of Media	Teaching	6
12	Non Teaching	Non Teaching	168
<b>Grand Total</b>			<b>376</b>

#### 4.2.6.2. Outsourced / Third Party Vendors employed by MU for the academic year 2023:

MEI has given livelihood opportunity to 656 Members by employing them for various activities through Outsourced Agencies:

<b>Table 15: Third Party Vendors</b>		
<b>Sl.no:</b>	<b>Activity</b>	<b>No. of Members</b>
1	Office Assistants	24
2	House Keeping Staff	193
3	Catering Staff	210
4	Security Staff	145
5	Maintenance	33
6	Gardening	43
7	Pest Control	8
<b>TOTAL</b>		<b>656</b>



## 5. Key Survey Findings & Recommendations:

Based on the above data received and analysed – the following recommendations are suggested towards more long-term allocation of CSR funds as well as sustainable institutional growth:

### 1. Procedural Recommendations:

There is a need for continuous and periodic monitoring of the progress of works undertaken instead of a mere year-end assessment activity. Effective Operational / Internal audit will enhance the intrinsic value of the funds deployed by TechM as well as gives assurance to all stakeholders concerned.

### 2. Policy Recommendations:

- i) Robust assessment studies of initiatives may be carried out to decide on how to prioritise areas of excellence to put the university on national and international map in future.
- ii) MEI may consider implementing some thoroughly deliberated measures towards the overall institution-building of the University such that its processes function seamlessly through the years of scale and growth anticipated.
- iii) MU may consider enhancing the collective leadership of the student body.

TechM has been able to meet its Vision of providing quality technical education through its CSR Contributions.

A combination of the above coupled with continued high-value CSR initiatives are desired in maintaining its objectives for the long-term as the university is on the growth trajectory and is looking forward to have exponential growth in times to come.

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**Thank You**