



**MANAV RACHNA  
UNIVERSITY**  
Declared as State Private University vide Haryana Act 26 of 2014

# **MANAV RACHNA UNIVERSITY**

(Established vide Haryana Act 26 of 2014)

## **MINUTES OF SEVENTH MEETING OF THE BOARD OF MANAGEMENT**

**Dated: 15.01.2018**

**Minutes of the Seventh Meeting of the Board of Management of the University held on Monday, dated 15.01.2018 at 11.00 A.M in the Board Room, A Block, MRIIRS campus, Faridabad.**

A meeting of the Board of Management of Manav Rachna University was held on Wednesday, Dated 15.01.2018 at 11.00 A.M in the Board Room, MRIIRS Campus, Faridabad to consider various administrative, academic and financial matters. The following were present:

1. Prof. (Dr.) Sanjay Srivastava, Vice Chancellor;
2. Dr. Amit Bhalla, Vice President, MREI,
3. Dr. N.C. Wadhwa, Vice Chancellor, MRIU;
4. Shri M.K. Miglani, Former Vice Chancellor , KU & HAU (Haryana),
5. Prof. (Dr.) B.M. Bahal, Dean, Applied Sciences & Research (Special Invitee)
6. Prof. Sangeeta Banga, Director/Dean, Students Welfare;
7. Prof. Jose Varghese, Professor-Emeritus (Special Invitee)
8. Dr. Kameshwar Singh, Registrar/ Member Secretary.

Worthy Principal Secretary (Higher Education) or his nominee, Shri S.K.Jain, MD, Indo Autotech Limited, Faridabad, Shri Navdeep Chawla, M.D. Psychotropic India Ltd., Prof. (Dr.) Meenakshi S. Khurana, PVC / Dean, Academics; Dr. M. M. Kathuria, Trustee (Special Invitee) and Shri. Rajiv Malhotra, Chief Finance & Accounts Officer (Special Invitee) Faridabad could not attend the meeting due to their other professional engagements; they were granted leave of absence.

The following are the minutes of the meeting:

### **7.1 Opening remarks by the Chairman**

The Chairman welcomed the Members present in the meeting and said that, a Centre of Excellence is being established in collaboration with M/s Daikin India Private Limited, the work on which is in progress. The University has also entered into an MOU with M/s Xebia to offer B.Tech. Computer Science Engineering in two different specializations viz. Data Science and Machine Learning and Digital Transformation Engineering. Apart from this, the students pursuing different programmes have done well in the academics as well as in other fields bringing out Laurel and proud to the University. One of our student Ms. Akansha Ahuja of B.tech –CSE (2014-18) who had won the challenge at Belgium, has now been selected for internship at CERN (European Organization for Nuclear Research) most respected accelerator lab in the world. Ms. Mehak Lamba, a student of B.Tech-CSE (2013-17) has been selected as Site Reliability Engineer at LinkedIn with a package of Rs. 10, 20,000 per annum and sign-on Bonus & relocation allowance of Rs. 2 lacs.



He further, said that University organized its first Convocation on December 16, 2017 in which 388 Grandaunds were awarded degree certificates. Two person of Eminence namely, Shri. Nadir Burjorji Godrej Managing Director Godrej Industries and Dr. Outi Kallioinen, Ex-President, Lahati University of Applied Sciences Helsinki, Finland were conferred Honoris Causa, Doctorate of Philosophy (Ph.D.). The Chairman also apprised the Board that, for the First Time, open house was organized by the University on December 22, 2017, a system under which students are shown the answer scripts and to see how have they performed and have been evaluated. This will add to the reputation of the University. With these words, the Chairman concluded his remark and requested the Registrar to take up the Agenda of the Meeting. The Registrar took up the subsequent agenda for consideration of the Hon'ble members.

### 7.2 Confirmation of the Minutes of the last meeting held on 13.09.2017.

The Board was informed that Minutes of the last meeting of the Board held on 13.09.2017 were circulated to all the members vide letter no. MRU/ BoM (A&M)/ 2017, dated 25.09.2017, no comments were received from any one of the members. Hon'ble members were requested to confirm the Minutes.

**Decision: Board confirmed the Minutes of the last meeting.**

### 7.3 Action Taken Report on the Decisions taken in the Sixth Meeting of the Board.

It was submitted for information that agenda's which were taken up in the last meeting, decisions thereon and the action taken by the University on them are given below for information of the Hon'ble members:

S No.	Agenda	Decisions	Action taken thereon
1.	Opening Remarks by the Chairman	-	No action required
2.	Confirmation of the Minutes of the last meeting held on 15.05.2017.	Confirmed the Minutes of the last meeting	No action was required
3.	Action Taken Report on the Decisions taken in the Fifth Meeting of the Board.	Took the Action Taken Report on record	No action required
4.	Matter for Information (i) Appointment of Dean for Faculty of Law (ii) Faculty members Joined /	The Board took the information on record.	No action required



	<p>Resigned from the Service since 16.05.2017 onwards..</p> <p>(iii) Courses approved by the Academic Council</p> <p>(iv) Admissions made under UG/PG Programs for the Academic Session 2017-18.</p> <p>(v) Students Achievements</p>		
5	<p>Matter for Ratification</p> <p>(i) Appointment of Faculty and the Staff in the University.</p>	<p>The Board ratified the appointments of faculty in different streams made by the University.</p>	<p>No action required</p>
6.	<p>Approval of the Second Ordinance relating to B. Sc (Hons) &amp; M. Sc in Physics, Chemistry &amp; Mathematics, B. Ed and LLB Programs leading to award of Bachelors &amp; Master Degrees.</p>	<p>Board approved the Second Ordinance for submission to the Govt. for their approval and Gazette notification</p>	<p>The Ordinance was sent to the Doctorate of Haryana, Panchkula for approval and notification.</p>
7	<p>Introduction of new UG &amp; PG Programs from the Academic Session 2018-19</p>	<p>Board approved the above programs and their intakes except Post-Graduate Diplomas and Professional Paralegal Certificate Course (PPCC). The Specialization for B.Tech. Computer Science was decided to be modified as Data Science and Knowledge Engineering and Intake for Ph.D. Law was decided to be as per availability of the faculty".</p>	<p>The Proposal for introduction of new program, as approved by the Board, has been sent to the DHE for obtaining NOC to start the same from the academic year 2018-19.</p>



8	Approval of the policy in respect of Intellectual Property Rights covering Patents, Copyrights and Technology Transfer	Board approved the IPR Policy.	The approved policy circulated among the departments for implementation.
9	Approval of the Incubation policy to promote new entry into product, processes and services.	Board approved the Incubation Policy.	The approved policy circulated among the departments for implementation
10	Approval Fee Structure for the Academic Session 2018-19.	Board approved the fee structure for the programs to be offered in the academic session 2018-19	Fee Structure prescribed in the Admission Brochure.
11	Consideration of the Recommendation of the Finance Committee	Board approved the Recommendations of the Finance committee.	Placed before the GB, GB approved the same.
12	Approval of Intake of UG & PG Programs for the Session 2018-19	Board approved the Intake for the programs to be offered in the academic session 2018-19	Intake prescribed in the Admission Brochure.
13.	Approval of MRU (POLICY AND PROCEDURES FOR E-GOVERNANCE) REGULATION, 2017	Board of Management approved the MRU policy and procedure for E-governance.	The approved regulations circulated among the departments for implementation.
14.	Approval of Manual on Policy and Procedures for various Measures Undertaken by the University for Welfare/ Recognition/FDPs, Incentives etc in r/o Faculty & Staff	Board of Management approved the Manual on Policy and Procedures for various Measures Undertaken for Welfare/ Recognition/FDPs, Incentives etc in r/o	The approved policy circulated among the departments for implementation.



		Faculty & Staff	
15	<p>Any other item</p> <p>(1) Setting up of Design Atelier under the Dept. of Mechanical Engg.</p> <p>(ii) Directions of the Government for Admissions and Implementation of Statutory Provisions by the Private Universities in Haryana</p>	<p>Setting up of Design Atelier under the Dept. of Mechanical Engg.</p> <p>Board Approved the Mode of Admission proposed by the University</p>	<p>Action initiated for the same</p> <p>Mode of admissions, as approved, is adopted for the Academic Year 2018-19</p>

**Decision: Board took Action Taken Report on record.**

#### **7.4 Matter for information**

##### **i) Appointment of Pro Vice Chancellor**

Board was informed that after relieving of Prof.(Dr.) V.K. Mahna, Pro Vice Chancellor from the University, Prof.(Dr.) Meenakshi S. Khurana, Professor, Physics and Dean Academics has been appointed as Pro Vice Chancellor of the University vide Order dated 31.10.2017 for a term of two years from the date of entering into the office. She has assumed the charge of the office of the Pro Vice Chancellor from the same date i.e. 01.11.2017.

##### **ii) Faculty members Joined/Resigned from the Service since 13.09.2017 onwards.**

The Board was informed that during the last 4 months, 04 persons(1 Professor(Management), 03 Assistant Professors (one in Chemistry, one in Mathematics and one in Humanities) have joined the university. Besides, Two Non Teaching staffs have also joined. Ten Faculty and Staff Members hailing from the different streams have resigned from their posts for their personal reasons and relieved from the University.

##### **iii) Organizing of First Convocation of the University**

Board was informed that Manav Rachna University organized its First Convocation on Saturday, Dated December 16, 2017. In the absence of His Excellency Governor, Haryana, it was presided over by the Hon'ble Chancellor as per the provisions in the Haryana Private Universities Act, 2006. Shri. Nadir Burjorji Godrej was the Chief Guest on this solemn occasion and delivered Convocation address. Dr. Outi Kallioinen was our



Guest of Honour. On this occasion 388 graduands (279 Present and 109 in absentia) including 12 First batch of PG students( M.Tech.-2, MBA-10) pass out from MRU, were given their B.Tech, M.Tech and MBA degrees. Besides, 13 Medals and Awards ,namely, President Medal, Vice President Medal, Patron Medal ,Vice Chancellor Medal, Student Leadership Medal, Academic Proficiency Medal and Outstanding Achiever Awards were given to the Graduates based on their International, National achievements, Leadership and Academic Proficiency( Overall and Discipline wise).

#### iv) Conferment of Honoris Causa, Doctorate of Philosophy (Ph.D)

Two person of eminence, namely, Dr. Outi Kallioinen, Ex President , Lahiti University of Applied Sciences, Helsinki, Finland and Shri. Nadir Burjorji Godrej , Managing Director, Godrej Industries from two diverse fields i.e. Education and Industries were conferred the Honoris Causa , Doctorate of Philosophy with the approval of the Visitor/His Excellency Governor, Haryana in the First Convocation of the University.

#### v) Signing of MOU with Daikin India Pvt. Ltd.

Manav Rachna University has entered into a MOU with Daikin India Pvt. Ltd. (DAIPL) which is engaged in the business of manufacturing and trading of air conditioners of various types including RA, SA, PA, VRVs, Chillers and Air Purifiers and their accessories and spare parts as well as undertakes after sales services including repair and maintenance of equipments sold by it. In line with Government's skill development efforts, DAIPL provides support to various engineering universities / institutes / colleges in establishing infrastructure for imparting trainings related to HVAC at their campus (es). The purpose of this MOU is to enable the parties to enter into a non-exclusive collaborative relationship for the purpose of furthering their common interests of imparting trainings related to HVAC.

As per the terms and conditions of MOU, DAIPL would provide resources (such as training of faculty, machines, equipments, content, technical know-how etc) while Manav Rachna University would provide basic infrastructure (such as space, electrical work, chairs, tables, projector, screen, upkeep and maintenance etc.) to develop a facility inside its campus for imparting training related to HVAC in the name of **Center of Excellence**. The Centre of Excellence shall be a joint facility to be used by DAIPL and Manav Rachna University. DAIPL will conduct workshops and events related to HVAC industry in mutual interest with MRU and in benefit of all stakeholders. Deserving students may be considered for placement opportunities in DAIPL or channel partners such as Internship, live projects or fixed term employment contracts, etc.

**Decision: The Board took the above information on record.**

#### 7.5 Matter for Ratification



**i) Appointment of Faculty and Staff**

The Board was informed that recruitment action was started for filling up the vacant faculty positions in the existing as well as newly created academic departments to enable them to cope up with the faculty shortage by notifying the vacancies in the leading news papers as well as uploading of the same on the university website. In order to select the candidates, the interview was held on different dates by the Selection Committee constituted by the Vice Chancellor.

Based on recommendations of the Selection Committees, the following 05 persons were issued the offer of appointment with the approval of the Vice Chancellor from the date indicated against their names. Four have joined the posts in the University.

S. No.	DISCIPLINE	NAME	DESIGNATION	D.O.J
1	Management	Arindom Chatterjee	Professor	10.01.2018
2	Computer Science & Engg.	Dr. Parneeta Dhaliwal	Associate Professor	20.01.2018
3	Chemistry	Dr. Jaya Tuteja	Assistant Professor	10.01.2018
4	Maths	Upasana Taneja	Assistant Professor	02.01.2018
5	Humanities	Dr. Vallari Dwivedi	Assistant Professor	10.11.2017

**ii) Degrees should bear the signature of Chancellor along with Vice Chancellor and Registrar**

It was submitted for information that on the recommendation of the Academic Council, the Board had approved the format of the Degree Certificates for UG & PG Programs bearing signatures of the Registrar and Vice Chancellor. Recently, It came to our notice that the Universities located in Haryana have been issuing the Degrees bearing the signature of the Chancellor along with the Vice chancellor and Registrar. Hence, a decision was taken to adopt the same from the very first batch of Master Programmes, pass out in 2017. The Degree Certificates were accordingly got printed with sign of the Registrar, Vice Chancellor & Chancellor and given to the graduates in the First Convocation held on 16.12.2017. The copies of the Degree format approved by the





Board in its fifth meeting held on 15.05.2017 and the one adopted along with sign of Chancellor were placed before the Board.

**iii) Degree format used for the conferment of Honoris Causa, Doctorate of Philosophy (Ph.D.)**

Board was informed that a decision was taken by the University to confer Honoris Causa, Doctorate of Philosophy to two eminent persons during the first convocation held on 16.12.2017. To award the same, the university adopted the degree format, a sample of which was placed before the Board.

**Decision: Board ratified the actions taken by the University**

**(iv) Approval of amount of seed money sanctioned by the Vice Chancellor to the faculty members for their Research Projects for the Year 2018-19**

BOM considered the amount sanctioned for seed money to the faculty members to carry out their Research Projects by the Vice Chancellor and the proposal for the seed money of Rs. 20.58 Lakhs for 13 projects to 10 faculties and resolved to ratify the same.

**Decision: The Board ratified the amount of seed money of Rs. 20.58 Lakhs sanctioned by the Vice Chancellor to the faculty members for their Research Projects for the Year 2018-19. Approved projects are annexed as Annexure No-I**

**7.6 Introduction of two different specializations in B. Tech CSE Program**

It was submitted that in the last meeting of the Board of Management held on 13.09.2017, the Board had approved to offer specialization in data Science and Knowledge Engineering. Now, in the sixth meeting of the Academic Council held on 08.12.2017, the Dept. of CST came out with a proposal that it has given a second thought on the above program and intends to offer two different specializations Computer Science Engineering, in addition to specialization in Data Science and Machine learning and specialization in Digital Transformation Engineering in collaboration with Xebia maintaining the total intake of B. Tech. CSE program as 240.

The proposal of the Dept. of CST was deliberated in the Academic Council and it was unanimously resolved to recommend the same for approval of the Board of Management. A brief about the programmes was also mentioned as given hereunder:

• **B. Tech CSE with specialization in Data Science and Machine learning**

B. Tech in Machine Learning is dedicated to furthering the scientific understanding of automated learning and to producing the next generation of tools for data analysis and decision making based on that understanding. The B. Tech program in Machine Learning offers students the opportunity to improve their training with advanced study in



Machine Learning. Incoming students should have good analytic skills and a strong aptitude for mathematics, statistics, and programming. Today's demand for expertise in machine learning far exceeds the supply which has necessitated the Department to offer this programme.

- **B.Tech. CSE with specialization in Digital Transformation Engg.**

The Digital Transformation technologies are a unique initiative for B Tech CSE students in which the curriculum will be embedded with Full Stack Programming, Big Data, Agile, Natural Language Processing and Internet of Things (IOT). Industry experts will work as mentors, along with professors in guiding the students as per the specified methodology. After doing B Tech CSE programme with emphasis on Digital Transformation Technologies, student will be ready for the future careers that are in huge demand these days.

A proposal for introducing the above programmes was submitted to the Govt. vide letter dated 30.11.2017 for obtaining their approval.

**Decision: Board approved the proposal of the Dept. of CSE.**

## 7.7 Consideration of the recommendations of the Finance Committee

### 1. Revision of Fee structure in r/o UG/PG Programmes offered / to be offered under various Faculties of the University

Hon'ble members were informed that the Board had approved the fee structure for various UG & PG Programs to be offered during 2018-19 in its last meeting held on 13.09.2017. The Finance Committee has now recommended minor revision in the fee structure of all the UG & PG programmes to be offered during the next academic year and also recommended the fee structure for the two new specializations of Computer Science and Engineering proposed to be offered from 2018-19. The details of the fee approved and the revised one proposed to be approved are given under for consideration and approval of the Board.

S. No.	Name of UG / PG Program	Fee per annum	Revised Fee (per annum)
<b>Bachelor of Technology</b>			
1	B. Tech. CSE	Rs.1,80,500	Rs.1,81,500
	B. Tech. CSE (DSML)	-	Rs.2,44,000
	B. Tech. CSE (DT)	-	
2	B. Tech. ME	Rs.1,80,500	Rs.1,81,500
3	B. Tech. IE&M		



<b>Bachelor of Technology (Lateral Entry)</b>			
1	B. Tech. CSE	Rs. 1,70,000	Rs. 1,71,000
2	B. Tech. ME		
3	B. Tech. IE&M		
<b>Master of Technology</b>			
1	M. Tech. CE	Rs. 1,05,000	Rs. 1,06,000
2	M. Tech. ME		
<b>Bachelor of Business Administration</b>			
1	BBA (Specialization in. HCM)	Rs. 1,60,000	Rs. 1,61,000
2	BBA (Finance & Accounts)	Rs. 1,75,000	Rs. 1,76,000
3	BBA (EFB)		
4.	BBA (Specialization in Supply Chain Management Logistics & Projects Management)		
<b>Bachelor of Science (Hons.)</b>			
1	B.Sc. (Hons.) Chemistry	Rs. 1,05,000	Rs. 1,06,000
2	B.Sc. (Hons.) Mathematics		
3	B.Sc. (Hons.)Physics		
<b>Master of Science</b>			
4	M.Sc. Chemistry	Rs. 1,05,000	Rs. 1,06,000
5	M.Sc. Mathematics		
6	M.Sc. Physics		
<b>Bachelor of Education</b>			
1	B.Ed.	Rs. 1,05,000	Rs. 1,06,000
2	B.A. B.Ed. Integrated		
3	B.Sc. B.Ed. Integrated		
4	M.A (Education)		
<b>Bachelor of Law</b>			
1	BA LLB (Hons.)	Rs. 1,82,000	Rs. 1,83,000
2	BBA LLB (Hons.)		
3	B. Com LLB (Hons.)		
4	LLM	Rs. 1,25,000	Rs. 1,26,000



The programme wise fees were reported to be divided into five components viz. Tuition fee, Development fee, University fee, Students Resource fee and Training Partner fee. The fee will be charged in two installments; first installment at the time of admission and second installment in November of the year, the break-up of which were placed before the Board.

### **Revised Budget for the year 2017-18**

It was submitted for information that revised budget for the year 2017 -18 proposed by the University was considered by the Finance Committee in its meeting held on 05.01.2018 which was okayed by the Committee after making some changes in some of the sub-heads. The recommended RE for the Year 2017-18 by the Finance Committee was placed in the meeting.

**Decision: Board considered the recommendations of the F C and accorded their approval for placing the same to the Governing Body for approval.**

### **7.8 Consideration of Annual Report of the University for the year 2016-17**

The Board was informed that, as per the provision under the section 42 of the Haryana Private Universities Act, 2006 and amended from time to time, Annual Report of the University shall be prepared by the Board of Management which shall include among other matters, the steps taken by the university towards the fulfillment of its object and shall be approved by the Governing Body. The copies of the Annual Report shall be submitted to the sponsoring body and also presented to the Visitor and the Government. In order to prepare the report, a committee headed by the Dean Academic with four other members was constituted.

The draft Annual Report, recommended by the Committee and Okayed by the Hon'ble Vice Chancellor was provided in the meeting The Board after deliberation approved the Annual Report for submission to G.B.

**Decision: Board considered the Annual Report (2016-17) of the University and recommended for approval of the Governing Body.**

### **7.9 Any other matter with the permission of Chair.**

Two other matters were considered by the Board under this item which are as follows:

#### **i) Last date of admission for UG and PG programs during academic year 2018-19.**

Board was apprised by the Registrar that there is requirement for seeking approval of this august body with regard to last date for closing of admissions for various UG/PG



programs offer by the University. Keeping in view the direction of Haryana Society for Technical Education in the preceding year it is proposed to keep the last date of admission for professional courses that is B.Tech and M.Tech programs during 2018-19 as **August 15, 2018** and for all other courses as **September 30, 2018**.

**Decision: Board approved the last date of closing of admission during 2018-19, as above.**

## ii) Financial assistance to Students attending Workshop/Conferences

Dean, Research informed the Board that University has been providing financial assistance to the students on case to case basis but a need was felt to frame a policy in this regard so that students could be encouraged to participate in workshop/ conferences organized by the educational institutions from time to time. He proposed that University should fund 50% of the expenses towards Registration fee as well as traveling expenses for the conferences organized in India. After deliberation it was resolved that University should frame a guidelines/policy in this regard and submit for consideration.

**Decision: A policy guidelines shall be prepared by the University for consideration of the Financial assistance.**

  
(Dr. K. Singh)

Registrar/Member Secretary

F. No. MRU/BoM (A&M)/Vol.III/2017

Dated: 17.01.2018

To,

1. PS to Chancellor for kind information of the Hon'ble Chancellor.
2. Prof. (Dr.) Sanjay Srivastava, Vice Chancellor
3. Principal Secretary to Government, Haryana Higher education Department, Room No.58, VIII Floor, Haryana Civil Secretariat, Sector-1, Chandigarh.
4. Dr. Amit Bhalla, Vice President, MREI,
5. Dr. M. M. Kathuria, Trustee, NIT, Faridabad.
6. Dr. N.C. Wadhwa, Vice Chancellor, MRIU;
7. Shri M.K. Miglani, Former Vice Chancellor, KU & HAU, H.N.1161, Sector- 15, Faridabad.
8. Shri Navdeep Chawla, M.D. Psychotropic India Ltd.Faridabad
9. Sh. S.K. Jain, MD, Indo Autotech, Ltd., Faridabad.
10. Prof. (Dr.) Meenakshi S. Khurana, PVC & Dean, Academics.
11. Prof. (Dr.) B.M. Behal, Dean, Applied Sciences & Research.
12. Prof. Sangeeta Banga, Director/ Dean, Students Welfare.
13. Shri Rajiv Malhotra, Chief Finance & Accounts Officer

Minutes of 7<sup>th</sup> BoM held on 15.01.2018



**Manav Rachna University, Faridabad.**

**Research Projects undertaken by faculty and Seed Money given for the Projects  
Financial Year (2018-19)**

S.No.	Name of Faculty Members	Department	Projects Name	Total
1	Dr. Deepti Maikhuri	Physics	Synthesis of artificial mammals-bone nano-materials for their application in orthopedics and dentistry	225000
2	Dr. Roopa Rani	Chemistry	Investigation and assessment of agricultural soil irrigated with drain water in villages of Faridabad and Palwal District of Haryana inhabiting cancer patients	185000
3	Dr. Parneeta Dhaliwal	CST	Empowering Rural Women of Haryana through advanced technologies in Pisciculture	175000
4	Dr. Jyoti Pruthi	CST	Online Product Rating Estimation using Aspect Level Sentiment Analysis	160000
5	Dr. Parneeta Dhaliwal	CST	Handling Drifting Concepts in Data Streams	175000
6	Dr. Susmita Ray	CST	Cancer Analytics - A Machine Learning based Robust Intelligent System for Prediction, Detection, Prognosis, Progression, Recurrence and Survival Analysis of Cancer	160000
7	Dr. Arpit Sand	Chemistry	Biodegradable super absorbing polymers (SAPs) from renewable sources for sanitary application	255000
8	Ms. Meena Kapahi Dr. Arpit Sand Dr. B.M Bahal	Mechanical Chemistry Physics	Multipurpose Medicated and Biodegradable absorbent Material/Pad	43000
9	Dr. Sudhish Kumar Shukla	Chemistry	The squelching ability of the ionic liquid immobilized magnetic nanoparticles for biomolecular interactions	200000
10	Dr. Vinayak V. Pathak	Chemistry	Development of thermal energy storage based photobioreactor for integrated wastewater treatment and bioenergy production using algal- bacterial consortium	235000
11	Dr. Arpit Sand	Chemistry	Green & Sustainable Chemistry Conference	35000
12	Dr. Roopa Rani	Chemistry	Study on Cancer suffering Villages of Palwal district of Haryana, India by Assessment and Estimation of pesticides, heavy metals and other pollutants in soil, water and crops of agricultural land irrigated with wastewater	170000
13	Ms. Meena Kapahi	Mechanical	Horizontzl Aerobic & Biodegradable Composting	40000
<b>Total</b>				<b>2058000</b>

