



Date: 18th September, 2018

Ref: Dean(R)/SMG/18-19/001

Dean (Research)
Quantum University

CIRCULAR

It is with Great pleasure we announce the faculties who have been selected for the award of Seed Money for carrying out research under the "SEED MONEY GRANT" scheme for the year 2018-19 along with grant allocation:

Sr. No	Topic	Principle Investigator (PI)	Co-PI	Seed Money Components
1	Actuation System For Lifting Mechanisms	Mr. M. Kannan, Dept of Mechanical Engineering		Purchase of minor equipment / Testing of Equipment charges= Rs. 88000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 12000 Total Amount= Rs. 125000
2	Advances In Agriculture And Natural Sciences For Sustainable Agriculture.	Mr. Mitender Kumar, Dept of Computer Applications		Research Expenses on data collection from various places = Rs. 18000 Purchasing of monitor cost = Rs. 62000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 10000 Travel & Administrative Expenses= Rs. 10000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 125000





3	An Experimental Investigation Into The Performance Of Electro-Chemical Machining (Ecm) Process	Mr. Vivek Kumar Sharma, Dept of Mechanical Engineering		Research Expenses (brass/ copper/ bronze, electrolyte etc) = Rs. 25000 Testing of Equipment charges / = Rs. 57000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 12000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 12000 Total Amount= Rs. 125000
4	Automatic Vehicle Locking System	Mr. Satender Kumar, Dept of Computer Sciences & Engineering	Mr. Mitender Kumar	Research Expenses = Rs. 16750 Purchase of minor equipment / Testing of Equipment charges= Rs. 66250 Programming language /Charges of Analysis of Data= Rs. 12000 Patentability Search= Rs. 15000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 10000 Total Amount= Rs. 130000
5	Comparison : Matrix Converter, Cycloconverter & Dc Link Converter	Ms. Aditi Sharma, Dept of Computer Sciences & Engineering	Satender Kumar	Purchase of minor equipment / Testing of Equipment charges= Rs. 57800 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 12500 Administrative Expenses= Rs. 10700 Patentability Search= Rs. 15000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 10000 Total Amount= Rs. 116000
6	Customers Satisfaction On It Based Banking Services In Rural Areas (A Study Of Icici Bank)	Amit Saini, Dept of Commerce & Finance		Research Expenses on survey at different branches of bank= Rs. 35000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 20000 Travel & Administrative Expenses= Rs. 27000 Patentability Search= Rs. 15000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 113000





7	Digital Device For Measuring Dimensions	Dr. Gulshan Chauhan, Dept of Mechanical Engineering	Mr. Ankur Jain	Purchase of Digital equipments / Testing of Equipment charges= Rs. 84000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 8000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 14000 Total Amount= Rs. 125000
8	Effect Of Organic Fertilizer- Panchagavya On Rabi Crop	Ms. Chhaya Singh, Dept of Agricultural Studies	N Murugalatha	Research Expenses on materials required for preparation of panchagavya, seeds etc = Rs. 18000 Purchase of desktop = Rs. 50000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 15000 Travel & Administrative Expenses= Rs. 12000 Patentability Search= Rs. 18000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 12000 Total Amount= Rs. 135000
9	Effect Of Satisfaction Level On Stress (With Specific Reference To Banking Sector)	Pradeep Joshi, Dept of Business Administration		Research Expenses on surveys = Rs. 35000 Purchase of new desktop = Rs. 50000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 15000 Travel & Administrative Expenses= Rs. 10000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 135000
10	Effect Of SiO ₂ In A-Gate Made Of AISI 304	Mr. Mukesh Kumar, Dept of Mechanical Engineering	Surinder Kumar	Laboratory consumables/consumables/ Research Expenses = Rs. 22000 Purchase of minor equipment = Rs. 66000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 12000 Total Amount= Rs. 125000






11	Electrochemical Drilling Device	Mr. M. Kannan, Dept of Mechanical Engineering	Dr. Gulshal Chauhan	Purchase of minor equipment = Rs. 73500 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6500 Travel & Administrative Expenses= Rs. 5000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 110000
12	Exhaust Heat Recovery Device	Dr. Gulshan Chauhan, Dept of Mechanical Engineering		Research Expenses = Rs. 18250 Purchase of minor equipment = Rs. 54750 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 12000 Total Amount= Rs. 110000
13	Hydraulically Actuated Active Suspension System	Dr. Gulshan Chauhan, Dept of Mechanical Engineering	Mr. Ankur Jain	consumables = Rs. 22000 Purchase of Hydraulic equipment = Rs. 72000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 125000
14	Internet Of Things: Smart Device For Smart City	Mr. Vishal Vig, Dept of Computer Sciences & Engineering		Research Expenses = Rs. 46250 Purchase of equipment (Hardware/Software)= Rs. 108750 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 10000 Patentability Search= Rs. 15000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 10000 Total Amount= Rs. 200000
15	Isolation And Characterization Of Bacterial Isolates From Agriculture Field Soil Of Roorkee Region	Dr. N Murugalatha, Dept of Agricultural Studies	Anoop Badoni	Laboratory consumables/consumables/ Research Expenses = Rs. 22000 Purchase of bacterium colony counter = Rs. 66000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Travel & Administrative Expenses= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000



				Contingency Charges= Rs. 6000 Total Amount= Rs. 125000
16	Isolation Of Probiotic Lactobacillus Sp From Raw Cow Milk And Its Usage As Plant Growth Promoting Bacteria	Dr. N Murugalatha, Dept of Agricultural Studies		Laboratory consumables/consumables/ Research Expenses = Rs. 20750 Purchase of Testing of Equipment charges= Rs. 62250 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Travel & Administrative Expenses= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 120000
17	Management-Based Factors Of Sports Celebrity Endorsement And Effect On Brand Image	Anshul Sharma, Dept of Commerce & Finance		Research Expenses = Rs.5500 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 10000 Travel & Administrative Expenses= Rs. 5000 Patentability Search= Rs. 15000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 20000 Contingency Charges= Rs. 10000 Total Amount= Rs. 65000
18	Morphometric Analysis And Prioritization Of Sub-Watersheds In Bino Watershed, Uttarakhand: A Remote Sensing And Gis Perspective	Mr. Himanshu Kandpal, Dept of Civil Engineering		Research Expenses on equipments = Rs. 45750 Purchasing cost of new desktop Rs. 78050 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 20500 Travel & Administrative Expenses= Rs. 15700 Patentability Search= Rs. 15000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 15000 Contingency Charges= Rs. 10000 Total Amount= Rs. 200000





19	Phenotypic And Genotypic Characterization Of Salmonella Isolated From Beef In Northern India	Dr. Javed Ahamad Khan, Dept of Agricultural Studies	Laboratory consumables/consumables/ Research Expenses = Rs. 30000 Testing of genotypes and phenotypes= Rs. 60000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 25000 Travel & Administrative Expenses= Rs. 20000 Patentability Search= Rs. 25000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 20000 Contingency Charges= Rs. 20000 Total Amount= Rs. 200000
20	Raw Rubber Sheets For Soil Stabilization For Slopes	Mr. Vivek Kumar, Dept of Computer Sciences & Engineering	Research Expenses = Rs. 20875 Purchasing of rubber sheets and their testing charges= Rs. 40625 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 24000 Travel & Administrative Expenses= Rs. 26000 Patentability Search= Rs. 23000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 20000 Contingency Charges= Rs. 20000 Total Amount= Rs. 174500
21	Recent Trends In Automation- A Study Of Rpa Development Tools	Dr. Amit Dixit, Dept of Computer Sciences & Engineering	Research Expenses = Rs. 18250 Purchase of minor equipment= Rs. 60750 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 110000
22	Reciprocal Crosses In Early Maturing X High Yielding Rice (Oryza Sativa L.) Cultivars	Dr. Ram Prakash Srivastava, Dept of Agricultural Studies 	Research Expenses on collection of germplasm = Rs. 22000 Purchase of germplasm of rice and crossing cost = Rs. 66000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Travel & Administrative Expenses= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 125000



23	System And Method For Face Recognition	Aditi Sharma, Dept of Computer Sciences & Engineering	Research Expenses = Rs. 18187.5 Purchase of Software= Rs. 54562.5 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 10500 Survey of face recognition system= Rs. 10500 Patentability Search= Rs. 15750 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 10500 Total Amount= Rs. 130000
24	System And Method For Facilitating Medical And Diagnostic Services	Mr. Mitender Kumar, Dept of Computer Applications	Research Expenses = Rs. 22000 Testing of Equipment charges= Rs. 66000 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Travel & Administrative Expenses= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 125000
25	System Of Hybrid Renewable Energy Network For Secure And Effective Power Supply	Dr. Vivek Kumar, Dept of Computer Sciences & Engineering	Research Expenses = Rs. 19500 Purchase of equipments (solar system)= Rs. 58500 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Travel & Administrative Expenses= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 115000
26	The Detection Of Phenol By Using Tyrosinase Immobilized Sodium Alginate Beads	Dr. Darshika Nigam, Dept of Applied Medical Sciences	Laboratory consumables/consumables/ Research Expenses = Rs. 6250 Testing of sample charges= Rs. 18750 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 20000 Travel & Administrative Expenses= Rs. 20000 Patentability Search= Rs. 30000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 20000 Total Amount= Rs. 125000





27	The Effect Of Flyash And Foaming Agent On Setting Time And Strength Of Op Cement- A Experimental Approach	Mr. Karan Babbar, Dept of Civil Engineering		Research Expenses = Rs. 19250 Purchase of foaming agent, cement flyash etc charges= Rs. 57750 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Travel & Administrative Expenses= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 114000
28	Theory Of Constraints – Strategy For Continuous Improvement	Mr. Ankur Jain, Dept of Mechanical Engineering		Research Expenses = Rs. 19500 Purchase of new desktop charges= Rs. 58500 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Travel & Administrative Expenses= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 115000
29	Umbrella Device	Mr. Mitender Kumar, Dept of Computer Applications	Mr. Naveen Rana	Testing of Umbrella devices = Rs. 40750 Purchase of Umbrella decices= Rs. 122250 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 6000 Travel & Administrative Expenses= Rs. 6000 Patentability Search= Rs. 9000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 6000 Total Amount= Rs. 200000
30	Unmanned Aerial Vehicle	Mr. Amit Dixit, Dept of Computer Sciences & Engineering		Testing of Aerial Vehicles= 36250 Purchase of equipments = Rs. 108750 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 10000 Travel & Administrative Expenses= Rs. 10000 Patentability Search= Rs. 15000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 10000 Total Amount= Rs. 200000





31	Women Entrepreneurship In Rural India- A Bang For The Buck In Economic Growth	Dr. Vinay Pal Singh, Dept of Commerce & Finance	Research Expenses = Rs. 5500 Data Management & Report Preparation / Charges of Analysis of Data= Rs. 12000 Travel & Administrative Expenses= Rs. 20000 Patentability Search= Rs. 18000 Cost for Proposal submission to External Agencies & Publication / Fee of Attorney= Rs. 10000 Contingency Charges= Rs. 10000 Total Amount= Rs. 75000
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Dr. Amit Dixit
Dean (Research)
Quantum University



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