

Matric No 8.2.2 & 3.2.3

| Sr. No. | Name of the Project/ Endowments, Chairs | Name of the Principal Investigator/ Co Investigator | Name of the Funding agency | Type (Government /Non- Government) | Department of Principal Investigator/ Co Investigator | Year of Award | Funds provided (INR in lakhs) | Duration of the project (IN YEARS) |
|---------|---|--|----------------------------------|---|--|------------------|-------------------------------------|--|
| 1 | Chemical, structural and thermodynamic aspects of materials for nuclear applications | Dr A. K. Tyagi | DAE | Government | Chemical Sciences | 02-12-2013 | 900 | 6 |
| 2 | Basic studies on catalysis and photo- catalysis | Dr A. K. Tripathi | DAE | Government | Chemical Sciences | 02-12-2013 | 380 | 6 |
| 3 | Synthesis, characterization and processing of strategic materials | Dr G. Kedarnath | DAE | Government | Chemical Sciences | 02-12-2013 | 1500 | 6 |
| 4 | Analytical environmental Chemistry of natural & engineered nanoparticles and their impact on human food chain | Dr R. K. Singhal | DAE | Government | Chemical Sciences | 02-12-2013 | 500 | 6 |
| 5 | Advances in Radiation Chemistry | Dr S. Adhikari | DAE | Government | Chemical Sciences | 22-04-2013 | 1300 | 6 |
| 6 | Frontiers in Photochemistry | Dr A. C. Bhasikuttan | DAE | Government | Chemical Sciences | 22-04-2013 | 1900 | 6 |
| 7 | Enhancement of Infrastructure and methods for chemical analysis | Dr A. K. Satpati | DAE | Government | Chemical Sciences | 22-04-2013 | 1500 | 6 |
| 8 | Theoretical & Computational Chemistry of complex systems | Dr T. K. Ghanty | DAE | Government | Chemical Sciences | 22-04-2013 | 500 | 6 |
| 9 | Chemical methodology for control of corrosion and radiation field in nuclear reactor coolant systems | Dr S. Velmurugan | DAE | Government | Chemical Sciences | 22-04-2013 | 1200 | 6 |
| 10 | Ultrashort Terawatt Laser Facility for Studies of Propagation Dynamics, Terahertz Generation and Molecular | Dr S. Nath | DAE | Government | Chemical Sciences | 22-04-2013 | 1200 | 6 |

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|---------|--|--|-------------------------------------|---|--|------------------|-------------------------------------|--|
| 11 | Enhancement of Capacity in Production of Radioisotopes and Radiopharmaceuticals | Dr Aruna Korde | DAE | Government | Chemical Sciences | 13-12-2013 | 1600 | 6 |
| 12 | Development of electron beam gamma and plasma processes for industrial and environmental | Dr Y. K. Bhardwaj | DAE | Government | Chemical Sciences | 13-12-2013 | 1100 | 6 |
| 13 | Experimental & computational studies and development of Advanced Process Equipment, Systems & Remote | Dr G. Suglial | DAE | Government | Engineering Sciences | 02-08-2013 | 2160 | 7 |
| 14 | R&D Studies related to AHWR- fuel reprocessing &HLW management and alternate equipment development for | Sh S. Bhattacharya | DAE | Government | Physical Sciences | 02-08-2013 | 740 | 7 |
| 15 | Development of 4.5 K Helium refrigeration system | Dr Anindya Chakravarty | DAE | Government | Engineering Sciences | 21-11-2013 | 600 | 6 |
| 16 | Development of Radiation and Chemical Resistant Membranes for Process Applications in Nuclear Fuel | Dr R. C. Bindal | DAE | Government | Chemical Sciences | 28-03-2013 | 500 | 7 |
| 17 | Development of Capillary Membrane Module | Dr A. K. Ghosh | DAE | Government | Chemical Sciences | 28-03-2013 | 400 | 7 |
| 18 | Augmentation of metrological and computational infra structure for improved radio-environmental impact | Dr P. M. Ravi | DAE | Government | Chemical Sciences | 29-10-2013 | 1500 | 6 |
| 19 | Developing Novel Applications of Radiation Technology for Value Addition to Food & Agro Commodities | Dr S. K. Ghosh | DAE | Government | Chemical Sciences | 28-01-2013 | 1660 | 7 |
| 20 | Sustainable agriculture using nuclear and biotechnological approaches for societal benefit | Dr P. Suprasanna | DAE | Government | Life Sciences | 18-06-2013 | 3425 | 7 |

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|---------|---|--|-------------------------------------|---|--|------------------|-------------------------------------|--|
| 21 | Molecular interactome in stress response | Dr Ajay Saini | DAE | Government | Life Sciences | 21-05-2014 | 1900 | 6 |
| 22 | Understanding the Cellular and Molecular Radiobiological Effects and their Modulation with Relevance to | Dr B. N. Pandey | DAE | Government | Life Sciences | 21-05-2014 | 1900 | 6 |
| 23 | Understanding molecular effects of high level natural radiation on human population | Dr Birajalaxmi Das | DAE | Government | Life Sciences | 21-05-2014 | 950 | 6 |
| 24 | National Facility for Structural Biology | Dr Mukesh Kumar | DAE | Government | Physical Sciences | 21-05-2014 | 1900 | 6 |
| 25 | Structural and functional studies of novel proteins for biological applications | Dr Vinay Kumar | DAE | Government | Physical Sciences | 21-05-2014 | 600 | 6 |
| 26 | Nuclear Medicine Programme, Thyroid Cancer Proteomics and Host-pathogen Interaction in Tuberculosis | Dr(Smt) Savita Kulkarni | DAE | Government | Life Sciences | 27-01-2016 | 1932 | 4 |
| 27 | New Medical Cyclotron Facility in RRU, ACTREC | Dr(Smt) Savita Kulkarni | DAE | Government | Life Sciences | 27-01-2016 | 4300 | 4 |
| 28 | Development of Nb Based Alloys for Nuclear Applications: Phase Transformation Studies, | Dr R. Tewari | DAE | Government | Engineering Sciences | 21-08-2013 | 1600 | 7 |
| 29 | Radiation Induced Phase Transformations and Degradation of Nuclear Pressure Vessel Steels | Dr Aniruddha Biswas | DAE | Government | Engineering Sciences | 21-08-2013 | 680 | 7 |
| 30 | An integrated approach to research and development on novel nuclear materials through experimental and | Dr A. K. Arya | DAE | Government | Chemical Sciences | 21-08-2013 | 1480 | 7 |

Savita Kulkarni
 के. जयकृष्ण/ K. Jayakumar
 अध्यक्ष/ Head

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|---------|---|--|-------------------------------------|---|--|------------------|-------------------------------------|--|
| 31 | Development of Laser-based Welding, Surface Engineering and Micromachining Technologies | Sh Santosh Kumar | DAE | Government | Life Sciences | 22-04-2013 | 1000 | 6 |
| 32 | Development of glass/glass- ceramics/nano-composites for optical, biomedical and novel | Dr(Smt) Madhumita Goswami | DAE | Government | Chemical Sciences | 22-04-2013 | 1100 | 6 |
| 33 | Development of Ceramic Breeder Materials and study of Heat Transfer Pebble beds for TBM Programme | Dr D. Mandal | DAE | Government | Engineering Sciences | 22-04-2013 | 800 | 6 |
| 34 | Setting Up and Demonstration of Mobile Plant for Small Uranium Deposits | Sh A. K. Singh | DAE | Government | Chemical Sciences | 06-11-2013 | 4900 | 5 |
| 35 | Advanced Process Technologies for Recovery of Uranium from Different Natural Resources | Dr T. Sreenivas | DAE | Government | Chemical Sciences | 06-11-2013 | 600 | 5 |
| 36 | Augmentation of characterization and thermophysical property evaluation laboratory at RMD | Dr Joydipita Banerjee | DAE | Government | Engineering Sciences | 09-10-2013 | 625 | 8 |
| 37 | Refurbishing of facilities at Atomic Fuels Division | Sh S. K. Jha | DAE | Government | Chemical Sciences | 09-10-2013 | 650 | 8 |
| 38 | Mechanical behavior of nuclear structural, refractory metals and alloys and novel processed materials | Dr R. N. Singh | DAE | Government | Engineering Sciences | 21-08-2014 | 3700 | 6 |
| 39 | Corrosion and its control in nuclear power plants and recycle facilities | Dr Supratik Roychowdhury | DAE | Government | Engineering Sciences | 21-08-2014 | 2800 | 6 |
| 40 | Setting up facilities for production of rare earth metals and alloys | Dr A. Awasthi | DAE | Government | Engineering Sciences | 15-04-2013 | 2000 | 7 |

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|---------|---|--|-------------------------------------|---|--|------------------|-------------------------------------|--|
| 41 | Study of nuclear structure and reaction dynamics using heavy ions | Dr Bency John | DAE | Government | Physical Sciences | 21-05-2014 | 1500 | 7 |
| 42 | Low Energy Neutrino Spectroscopy (LENS) | Dr B. K. Nayak | DAE | Government | Physical Sciences | 21-05-2014 | 250 | 7 |
| 43 | Upgradation of scientific and other infrastructure for Astrophysics research | Dr K. K. Yadav | DAE | Government | Physical Sciences | 21-05-2014 | 800 | 7 |
| 44 | Design and technology development for a Super Conducting Linac for the ADS programme | Dr S. Krishnagopal | DAE | Government | Physical Sciences | 11-02-2013 | 8600 | 7 |
| 45 | Development of High Power RF Coupler Test facility based on a resonant ring | Sh Rajesh Kumar | DAE | Government | Life Sciences | 11-02-2013 | 300 | 7 |
| 46 | ECR based Heavy Ion accelerator | Dr A. K. Gupta | DAE | Government | Physical Sciences | 11-02-2013 | 1200 | 7 |
| 47 | Up gradation of FOTIA and LEAF Facilities at BARC | Sh S. K. Gupta | DAE | Government | Engineering Sciences | 11-02-2013 | 300 | 7 |
| 48 | Indo-French Collaboration for design, fabrication and testing of beam line components for DESIR Programme of Augmentation of experimental facilities to Beamlines at Indus Synchrotron. | Sh S. K. Gupta | DAE | Government | Engineering Sciences | 11-02-2013 | 600 | 7 |
| 49 | Augmentation of Indus beamlines | Dr S. N. Jha | DAE | Government | Physical Sciences | 31-07-2014 | 925 | 7 |
| 50 | Augmentation of Indus beamlines | Dr M. N. Deo | DAE | Government | Chemical Sciences | 31-07-2014 | 1400 | 7 |

(Signature)
के. जयशंकर क. जयकुमार
अधीक्षक/प्रमुख

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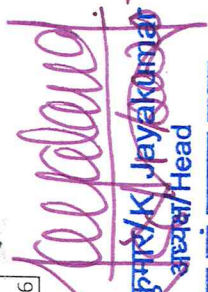
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|---------|---|--|-------------------------------------|---|--|------------------|-------------------------------------|--|
| 51 | Development of facilities for remote operation and in-situ data collection on protein crystallography beamlines | Dr Vinay Kumar | DAE | Government | Physical Sciences | 31-07-2014 | 280 | 7 |
| 52 | Spectroscopic Studies of Materials | Dr M. N. Deo | DAE | Government | Chemical Sciences | 14-06-2013 | 650 | 6 |
| 53 | Experimental & Computational research on Properties of Novel and Device Materials | Dr T. V. C. Rao | DAE | Government | Physical Sciences | 14-06-2013 | 900 | 6 |
| 54 | NMR facility to probe structure and dynamics of materials | Sh S. Mitra | DAE | Government | Physical Sciences | 14-06-2013 | 400 | 6 |
| 55 | Study of advanced functional materials using Raman and infra-red spectroscopy | Dr(Smt) Rekha Rao | DAE | Government | Physical Sciences | 14-06-2013 | 400 | 6 |
| 56 | Atomic and Molecular Physics Research for Nuclear Fuel Cycle | Dr D. V. Udupa | DAE | Government | Physical Sciences | 14-06-2013 | 450 | 6 |
| 57 | Development of Neutron sources, X-ray imaging facilities and their applications | Dr P. S. Sarkar | DAE | Government | Physical Sciences | 31-01-2014 | 2500 | 6 |
| 58 | National Facility for Neutron Beam Research and its Enhanced Utilization for Basic and Applied Research | Dr S. M. Yusuf | DAE | Government | Physical Sciences | 31-01-2014 | 1500 | 6 |
| 59 | Muon Tomography for high Z materials with Resistive Plate Chambers | Dr L. M. Pant | DAE | Government | Physical Sciences | 31-01-2014 | 250 | 6 |
| 60 | Photo Dissociation Dynamics of Biomolecules and their Clusters by ultrafast Laser-TOFM spectroscopy | Dr T. Jayasekharan | DAE | Government | Physical Sciences | 14-06-2013 | 550 | |

Perpared

के जयकुमार/क जयकुमार
अध्यक्ष/Head

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|---------|--|--|-------------------------------------|---|--|------------------|-------------------------------------|--|
| 61 | Development of Optical and Mass Spectrometric Analytical methods based on Pulse Laser Ablation | Dr T. Jayasekharan | DAE | Government | Physical Sciences | 14-06-2013 | 380 | 7 |
| 62 | Development of multilayer-mirror based Water-Window X-ray Imaging Microscope | Dr D. Bhattacharyya | DAE | Government | Physical Sciences | 14-06-2013 | 180 | 7 |
| 63 | Development of organic solar cells, thermoelectric devices and chemical sensor arrays for selective detection of | Dr A. K. Debnath | DAE | Government | Physical Sciences | 14-06-2013 | 1140 | 7 |
| 64 | Development of Single Crystals, Detectors and Imaging Devices | Dr (Smt) Babita Tiwari | DAE | Government | Physical Sciences | 14-06-2013 | 1700 | 7 |
| 65 | Simulation Tool and AHWR simulator | Dr A. P. Tiwari | DAE | Government | Engineering Sciences | 13-01-2014 | 1110 | 5 |
| 66 | Large Area Silicon Detector (6 inch, 300 micron wafer) Processing Facility in Indian industry | Dr Anita Topkar | DAE | Government | Engineering Sciences | 11-10-2013 | 4500 | 6 |
| 67 | Medical Instruments & Ultrasonic Instrumentation | Dr V. H. Patankar | DAE | Government | Engineering Sciences | 22-02-2013 | 550 | 7 |
| 68 | Development of Imaging & Vision based Systems. | Dr S. Kar | DAE | Government | Engineering Sciences | 22-02-2013 | 300 | 7 |
| 69 | Technologies for in-line inspection of oil & gas pipelines | Sh S. Mukhopadhyay | DAE | Government | Engineering Sciences | 19-09-2013 | 250 | 5 |
| 70 | Development of pulse power technologies for industrial and strategic applications | Dr Archana Sharma | DAE | Government | Engineering Sciences | 25-02-2014 | 1800 | 6 |


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|---------|--|--|-------------------------------------|---|--|------------------|-------------------------------------|--|
| 71 | Thermal-Hydraulic Safety Evaluation of AHWR Systems | Dr A. K. Nayak | DAE | Government | Engineering Sciences | 22-04-2013 | 2100 | 7 |
| 72 | Studies on high temperature coolant dynamics, corrosion behaviour, and high temperature reactor material | Dr N. K. Maheshwari | DAE | Government | Engineering Sciences | 22-04-2013 | 1650 | 7 |
| 73 | Structural Material Damage Studies: Multi-Scale Experiments and Simulations | Dr J. Chattopadhyay | DAE | Government | Engineering Sciences | 22-04-2013 | 600 | 7 |
| 74 | Irradiation of Fuel and Structural Materials in JHRand subsequent computational investigation | Dr B. K. Dutta | DAE | Government | Engineering Sciences | 22-04-2013 | 1440 | 7 |
| 75 | Safety Research in Core Thermal- Hydraulics | Sh D. Mukhopadhyay | DAE | Government | Engineering Sciences | 22-04-2013 | 2100 | 7 |
| 76 | Reliability, Probabilistic Safety & Simulator studies | Dr(Smt) Gopika Vinod | DAE | Government | Engineering Sciences | 22-04-2013 | 600 | 7 |
| 77 | Prognostics and Health Management for Electronic Components | Dr P. V. Varde | DAE | Government | Engineering Sciences | 22-04-2013 | 500 | 7 |
| 78 | Seismic retrofitting of APSARA Building | Sh S. Bhattacharya | DAE | Government | Physical Sciences | 30-04-2008 | 100 | 10 |
| 79 | Experimental Physics Lab at Critical Facility | Dr D. K. Chandrakar | DAE | Government | Engineering Sciences | 30-04-2008 | 200 | 10 |

Total

104937

Dr Jayakumar
अध्यक्ष/Head

Planning & Coordination Division

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during last five years

| Year | INR in Lakhs |
|-----------|--------------|
| 2014-2015 | 4453.9523 |
| 2015-2016 | 4546.8612 |
| 2016-2017 | 3784.0327 |
| 2017-2018 | 3164.3899 |
| 2018-2019 | 3764.1471 |


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