

S.No	Project Title	Sponsoring Agency	Year	Role
1.	Development of suitable processes for the synthesis and purification of Trimethyl phosphate (TMPO) and Triethyl borate (TEB)	Semi-Conductor Laboratory, Department of space, Punjab	2018- 2021	PI
2.	To Conduct Expert Advisory committee (EAC)- Waste Management Technology (WMT)	Department of Science & Technology	2018-2018	PI
3.	Methanol Production from Indian Coal: Pilot Plant Demonstration, Catalysis and Scale-up Technologies	Department of Science & Technology India	2018-2021	CP
4.	To Conduct Fourteen PAC Review Meeting of Chemical & Environmental Engineering	Science & Engineering Research Board,	2017-2017	PI
5.	Process Development and Assessment/Evaluation of Microalgae Based Bioduels and Value Added Products	International Division, Dept. of Science & Technology Sri Lanka	2017-2019	CP
6.	Evaluation of Newly Developed Hot Coal Gas Filtration Gasification Technology	Radhe Renewable Energy Pvt. Ltd., Gujarat	2017	PI
7.	Extraction of Precious Metals from E-waste using Chelation Technology	Department of Science & Technology (DST) India	2017-2020	PI

8.	Scale-up Studies and Process Development for Hydrogen Production by Catalytic Decomposition of Natural Gas	Hindustan Petroleum Corporation Limited, R&D Centre	2017-2021	PI
9.	SERB National Post-Doctoral Fellowship to Dr.Chandrakant Mukesh under the supervision of Prof.K.K.Pant	Science and Engineering Research Board	2017-2019	PI
10.	Microwave Assisted Valorization of Lignocellulosic Biomass into Value Added Chemicals and Fuels	Science and Engineering Research Board,	2016-2019	PI
11.	Development of kinetic for the methanol to formaldehyde reaction including by-product formation	haldor Topsoe A/S, Haldor Topsoes Alle 1, DK-2800 Denmark	2016-2017	PI
12.	SERB National Post-Doctoral Fellowship to Dr. Dinesh Gupta under the mentorship of Prof. K K Pant,	Science and Engineering Research Board	2016-2018	PI
13.	From Waste Water to Bioenergy: A Microalgae Biorefinery Approach in Indian and Brazilian Scenario	Department of Biotechnology, GOI Brazil	2016-2020	PI
14.	Sustainable cost-effective treatment and disposal of effluents from handloom industry	Office of the Dev. Commissioner for Handlooms India	2016-2016	CP
15.	Design and Development of Small Scale Grain Storage System for Food Safety	Department of Science &	2016-2018	CP

		Technology (DST) India		
16.	A Study of Non-Urea SCR Pathways to Reduce NO _x	Science and Engineering Research Board, (DST) India	2015-2018	CP
17.	Catalytic Conversion of Natural Gas to Liquid Fuels	Gas Authority of India Limited India	2014-2016	PI
18.	Fluidized Bed Reactor Studies for Hydrogen Production via Catalytic Decomposition of Methane	Hindustan Petroleum Corporation Limited, Corporate India	2014-2016	PI
19.	Petrotech Chair Professor in operation under the Prof. K. K. Pant, Department of Chemical Engineering	Industrial Research & Development, IIT Delhi. India	2013-2018	PI
20.	Phenol and COD Reduction in the Process Waste Water by Advance Air Oxidation	Aquatech International Corp. United States of America	2013-2013	PI
21.	Treatment of Industrial Effluent using Biochar as Low-Cost Adsorbent	Council of Scientific & Industrial Research India	2013-2015	CP
22.	Technology Development for Synthetic Liquid Fuels Through Process Intensification	IIT Delhi India	2011-2016	CP

23.	Unified Model Component III: Surface Exchanges, Atmospheric Chemistry and Aerosols	Ministry of Earth Sciences India	2011-2015	PI
24.	Testing and Evaluation of Biomass Cookstoves	Ministry of New and Renewable Energy India	2010-2017	CP
25.	Valuation of Plant of M/s. Naturex Oils Pvt.Ltd. (Extraction Plant for Spice Raw Material)	Central Bureau of Investigation, New Delhi India	2010-2010	PI
26.	Catalytic Oxidative and Non-Oxidative steam reforming of ethanol for Hydrogen generation	DRDO, Ministry of Defence India	2010-2013	PI
27.	Design of Optimal Reactor Configuration for Hydrogen Generation	Ministry of Defence India	2010-2013	CP
28.	Visit and Interaction Between Chemical Engineering Students and Faculty at	Addis Ababa University, Ethiopia India	2010-2012	CP
29.	Technical Evaluation & Improvement to Increase Efficiency of E.T.P. at Solan, Brewery	M/s. Mohan Meakin Limited, Shimla (HP) India	2010-2010	CP
30.	Hydrogen Production from Natural Gas (Methane) by Catalytic Decomposition	Centre for Higher Technology, India	2010-2013	PI
31.	Academic Audit	University of Petroleum & Energy Studies, Dehradun India	2009-2010	PI

32.	Expert Opinion on the Results of Crude Oil Analysis	Bajrang Petro Chemicals (P) Ltd., Kanpur India	2009-2009	PI
33.	Bio-energy: Technology and Business Solutions for the UK and India	International Division, Dept. of Science & Techno. United Kingdom	2009-2016	CP
34.	Development of Preservative Treatments and Studying the Physio Chemical and Insect Resistant Properties of Selected Bamboo Species	Indian Council of Agriculture Research India	2012-2012	PI
35.	Development of Noval Catalysts for Conversion of Synthesis Gas to Liquid Fuels	Department of Science & Technology (DST) India	2009	PI
36.	Hydrogen Production by Catalytic Steam Reforming of Glycerol	DRDO, Ministry of Defence India	2009-2010	PI
37.	Visit and Interaction Between Chemical Engineering Students and Faculty at Addis Ababa University, Ethiopia	Addis Ababa University, Ethiopia	2008-2010	CP
38.	Reactor Design and Configuration of Compact Reformer	DRDO, Ministry of Defence India	2008-2010	CP
39.	Investigations on Microbial Formulation of a Heat and Alkali Tolerant Fungal Strain for Decolourization of Dye Bearing Effluents	Department of Science & Technology (DST) India	2008-2011	CP

40.	Solid Oxide Fuel Cells that Operate Directly on Hydrocarbon Feedstock	Ministry of New & Renewable Energy India	2008-2012	CP
41.	Development of Eco-Friendly Techniques for Treatment and Preservation of Bamboo Species	Department of Science & Technology (DST) India	2007-2011	PI
42.	Treatment of Contaminated Ground Water using Low Cost Bio sorbent for Rural Villages	Department of Science & Technology (DST) India	2006-2008	PI
43.	Disposal of Spent Catalyst and Recovery of Precious Metal	Ministry of Chemicals & Fertilizers India	2005-2008	CP
44.	Setting up on Nanofiltration Membrane Based System for Treating Effluent (Tertiary Treatment)	Chelsea Mills India	2005-2005	PI
45.	Application of altered atmosphere in the storage pest management	Indian Council of Agriculture Research India	2004-2007	PI
46.	Catalytic Reforming of Methane with Carbon Dioxide	Ministry of Human Resource Development India	2004-2006	PI
47.	Increasing Life of Bituminous Roads by Utilising Waste Plastics Through a Novel Dispersant Based Bitumen Emulsion Technology- A New Approach Towards Petroleum Conservation and environment Protection	Petroleum Conservation Res. Association India	2003-2005	PI

48.	Literature Survey of Super Sonic Burner	P.C.R.A. India	2003-2004	CP
49.	Development of Low Cost Adsorbent (Hydrous Ferric Oxide) and household model for removal of Arsenic from Underground Water	Department of Science & Technology (DST) India	2003-2006	PI
50.	Modernization and Removal of Obsolescence of Chemical Process Development Laboratory	Ministry of Human Resource Development India	2003-2005	PI
51.	Removal of Aluminium from Drinking Water and Industrial Effluents Using Low Cost Adsorbents	Council of Scientific & Industrial Research India	2003-2005	PI
52.	Design & Development of Cold Oil Extractor for Extraction of Jojoba Oil	National Oil Seeds and Vegetable Oils Development India	2001-2003	CP