

**Details of Sponsored Projects Handled by Dr. V.K. Vijay**

**Ongoing**

<b>S. No.</b>	<b>Title</b>	<b>Funding Agency</b>	<b>Amount (Rs in Lakh)</b>	<b>Duration</b>	<b>PI/Co-PI If any</b>
1	Unnat Bharat Abhiyan	Ministry of Human Resource Development India	1000000000.00	21st Feb 2018 to 20th Feb 2021	PI Prof V K Vijay
2	From Waste Water to Bioenergy: A Microalgae Biorefinery Approach in Indian and Brazilian Scenario	Department of Biotechnology,GOI Brazil	10416000.00	31-05-2016 to 30-05-2020	Co-PI- Prof V K Vijay
3	Local Treatment of Urban Sewage Streams for healthy Reuse (LOTUS) (INDO-DUTCH Joint Project)	Department of Biotechnology, Ministry of Sc. & Tech., Holland	12729800 0	1/4/17 to 31/3/20	Co-PI- Prof V K Vijay
4	Development of low pressure high volume Biomethane Storage Cylinder for Transportation of bottled biogas for cooking and automotive fuel applications.	DST, India	6248352	1/7/17 to 30/6/20	PI- Prof V K Vijay

### Completed

S. No	Title	Funding Agency	Amount (Rs in Lakh)	Duration	PI/Co-PI If any
1.	Development of a Biogas Scrubber for Removal of CO <sub>2</sub>	ICAR	3.00	1989-91	A.N. Mathur (PI)
2.	Study and Analysis on Biogas from Kitchen Waste	DNES	1.00	1992	N. Ali (PI) A.N. Mathur
3.	Associated : Technical Backup – Rural Entrepreneurship Development Programme	NSTEDB (DST)	17.00	1996-97	Rajendra Prasad (PI)
4.	Development of Renewable Power Lab (MODROB)	AICTE	9.00	1999	A.N. Mathur (Co-PI)
5.	AICTE Career Award	AICTE	10.00	2000-2003	
6.	Evaluation of Green House for Local Medicinal Plant in Tribal Area of Udaipur Region	ICAR	7.88	2001-2004	S. Kothari (PI) N.S. Rathore
7.	Development of Animal Driven Prime Movers	MGIRI, KVIC	3.00	2002-03	
8.	Enrichment and Bottling of Biogas – Feasibility Study	MGIRI, KVIC	3.50	2002-04	
9.	Design and Development of Bullock Drawn Electricity Generator (RP01541)	MHRD	7.00	2003-2005	
10	Development of a 20 kW Entrained Flow Gasifier for Powdery Biomass for use with a 100 % Producer Gas Filled SI Engine (RP01659) (MNES file No. 203/01/27/2003-BM) dated 30.3.2004	MNES	8.74	2004-2005 (18 months)	M.R. Ravi (PI)
11.	Demonstration of Biogas Enrichment and Power Generation for Energy Self Sufficiency for Gaushalas and Dairies (RP01795)	DST	11.89	2005-2006	P.M.V. Subbarao (Co-PI)
12	Treatment of Pulp and Paper Mill Effluent by Constructed Wet Land Technology (	SERC, women scientist scheme	12.42	26.5.2004 3 years	Neetu Rani- Student Vivek (Co-PI)

	ORP01676)	project			
13	Field Demo and Performance Evaluation on Biogas Enrichment and Bottling Technology for Vehicular Use (RP01931)	PCRA	33.62	27.2.2007 2 years	P.M.V. Subbarao (Co-PI)
14	Pilot Level Demo of Biogas Enrichment and Bottling System for Rural and Automotive Applications (RP01941)	DST	5.00 (IITD) 9.60 Field Agency	4 <sup>th</sup> April 2007 1 year	P.M.V. Subbarao (Co-PI)
15	Indian Science and Technology Heritage (RP1990)	BhartiyaDharohar (NGO)	2.00	24 <sup>th</sup> July 2007 1 year	Rajendra Prasad (PI) V.K. Vijay (Co-PI)
16	Development of Vortex Tube based Biogas Upgradation System (RP02032)	MNRE	30.00	2 years 21.11.2007	P.M.V. Subbarao (PI) V.K. Vijay (Co-PI) P.L. Dhar (Co-PI)
17	Development of Field Worthy Pilot Scale Models of Water Absorption Based Biogas Upgradation System For Production of Natural Gas (RP02041)	MNRE	12.00	1 year 17.12.2007	V.K. Vijay (Co-PI) P.M.V. Subbarao (Co-PI) R.R. Gaur (Co-PI)
18	Biogas Development and Training Centre (RP02048)	MNRE	23.60	5 years 27.12.2007 to till date	V.K. Vijay (PI) P.M.V. Subbarao (Co-PI) R.R. Gaur (Co-PI) SangeetaKohli (Co-PI) Anushree Malik (Co-PI)
19	Running of Newly Developed Institute MGIRI at Wardha (MI00430)	KVIC	2,19,00,000	12 months 01.01.2008 to 31.12.2008	V.K. Vijay (PI)
20	Development of Pilot Level Demo of Biogas Enrichment and Bottling System for Rural Automobile Applications	DST	1,14,59,840 IIT-16,59,840	2 years 01.01.2009	V.K. Vijay (PI) P.M.V. Subbarao (Co-PI)

	(RP02181) in collaboration of DST, Rajasthan		Field Agencies – 96,00,000 DST Jaipur- 2,00,000		
21	Rural Technology Action Group – IIT Delhi (RP02202)	Principal Scientific Advisor, Govt. of India	1,32,04,000	3 years From 25.02.2009	Rajendra Prasad (PI) V.K. Vijay (Co-PI)
22	Pilot studies on optimization of Biomethanation process parameters for biogas production from Jatropa and Pongamia oil seed cakes ( RP 02271)	DST	14,40,000	2 years from 25.9.09	V.K.Vijay (PI) PMV Subbarao ( CO-PI)
23	Technology Demonstration of Biogas Enrichment and Bottling system for Rural Energy Security and Automobile Application in collaboration with Shri Vallabh Gaushala Junagarh, Gujarat ( RP02287)	DST	1151040	2 years from 18.11.2009	DrV.K.Vijay ( PI) CO-PI Prof Rajendra Prasad
24	EU-Consortium research project under call FP7-Energy-2009-1 Valorisation of food waste to biogas (VALORGAS) Grant Agreement No. 241334	European Commission, Research Directorate General, Brussels	Total Euro 4,649,952 IIT Delhi Euro 2,44,712	3 years from March 2010	PI Dr. V.K.Vijay
25	Comparative Evaluations of Performance and Mass Emissions of an Automotive Passenger Vehicle fuelled with the Enriched Biogas using Field Trial Tests ( RP 2470)	MNRE File No 11-13/2010(pt-f)/BE dated 25.3.2011	18,09,000	2 years From 20.4.2011	PI: Prof. V. K. Vijay Co-PI- P.M.V. Subbarao, K. A. Subramanyam
26	Biogas Slurry handling and Bio-manure Management	MNRE No 19-11/2010/-R&D –BE	16,91,000	2 years	PI: Satyawati Sharma Co-PI V. K. Vijay Anushree Malik

		dated 25.3.2011			
27	Design and Development of Mobile Unit for Biogas Enrichment ( RP 02539)	MNRE File No 19-6/2011- R&D/BE dated 30.11.2011	68,87,400	1.75 years	PI: V K Vijay Co-PI PMV Subbarao
28	Integrated Process Development for Biogas production from waste water grown algal biomass( a second generation biofuel feed stock ) and testing of algae mediated biogas conditioning ( RP 02537)	MNRE 19-18/2011- R&D/BE dated 18.11.2011	62,42,800	3 years	PI- Anushree Malik Co-PI VK Vijay Satyawati Sharma TR Shree Krishnan
29	Development of clean Cook Stove with self-sustaining power generation and pilot demonstration ( RP 02852)	Container corporation of India Ltd New Delhi since 2.1.2014 for one year	27,00,000	1 year	PI Prof V K Vijay Co-PI- Prof Rajendra Prasad
30	Improvement of existing IMPMUD STOVE	Tata Energy and Resource Institute, New Delhi Since 26.12.13	19,00,000	1 year 26.12.2014	PI Prof V K Vijay Co-PI- Prof Rajendra Prasad
31	Enhancing capacity of regional testing and knowledge centre	Global Alliance USA	11298400.00	2 years 7.1.2015	PI- V K Vijay Co-PI Prof V K Vijay
32	Demonstration and Adaptive Research of Biogas Purification & Bottling Technology for Vehicular Application	Department of Science & Technology (DST) India	11298400.00	2 years 01-04-2016	PI Prof V K Vijay Co-PI- Prof PMV Subbarao & Dr. Ram Chandra
34	Direct DBT Energy Bioscience Overseas Fellow to Dr. Ram Chandra	Department of Biotechnology , Ministry of Sc.& Tech India	7921291.00	21-01-2015 to 20-01-2018	PI Prof V K Vijay
39	From Waste Water to	Department of	10416000	31-05-	Co-PI- Prof V K

	Bioenergy: A Microalgae Biorefinery Approach in Indian and Brazilian Scenario	Biotechnology ,GOI Brazil	.00	2016 to 30-05- 2020	Vijay
40	Novel bio-harvesting for Coupling Algal Wastewater Treatment and Biofuel Production	Science and Engineering Research Board,(DST) India	4745000. 00	13-11- 2014 to 12- 11-2017	Co-PI- Prof V K Vijay
41	Bio-energy: Technology and Business Solutions for the UK and India	International Division, Dept. of Science & Technology, United Kingdom	72270000 .00	01-07- 2009 to 31- 12-2016	Co-PI- Prof V K Vijay
42	IREDA Professor Chair to Prof. V. K. Vijay, Centre for Rural Development and Technology	Industrial Research & Development, IIT Delhi. India	1200000. 00	10-11- 2015 to 09- 11-2018	PI Prof V K Vijay
43	Development of Suitable Pre-treatment System for Paddy Straw Disintegration for Biogas Generation Leading Towards Commercialization of Technology	Ministry of New and Renewable Energy India	4977440. 00	15-02- 2016 to 14-02- 2018	PI Prof V K Vijay
44	Novel bio-harvesting for Coupling Algal Wastewater Treatment and Biofuel Production	Science and Engineering Research Board,(DST) India	4745000. 00	13-11- 2014 to 12- 11-2017	Co-PI- Prof V K Vijay

**Details of Consultancy Projects Handled by Dr. V.K. Vijay**

<b>S. No.</b>	<b>Title</b>	<b>Funding Agency</b>	<b>Amount (Rs )</b>	<b>Duration</b>	<b>CI/Co – CI If any</b>
1.	Testing of Organic Food Products (CW06370)	Bharat Bio Products	38,500	3 months July-Oct 2003	V.K. Vijay (CI) S.N. Naik (Co-CI) Rajendra Prasad (Co-CI)
2.	Revamping of JBCRI Co-Convener in Energy Infrastructure group (CW05411)	KVIC	50,000	2002-2003	Rajendra Prasad (CI) V.K. Vijay (Co-CI)
3.	Techno- Economic Feasibility Study for implementation of PURA in Chhattisgarh (CW07818) dated 23.8.2005	HUDCO	2,67,000	Aug- Nov. 2005	V.K. Vijay (CI) Rajendra Prasad (Co-CI)
4.	Integrated Cycle of Cow – Project Report on Rural Self Employment with Partnership of Biogas Energy (CW07838) dated 29.8.2005	Love 4 Cow Trust	25,000	2 months	V.K. Vijay (CI)
5.	Feasibility on Enrichment and Utilization of Biogas From Manure Waste Treatment at Gokul Nagar Of Municipal Corporation Bilaspur (CW08879) dated 21.12.2006	Municipal Corporation Bilaspur	50,000	5 months	V.K. Vijay (CI) R.R. Gaur (Co-CI) P.M.V. Subbarao (Co-CI)
6.	Feasibility Report of Nehru Nagar Biogas plant for biogas Upgradation & Utilization of Nagar Palik Nigam, Bhilai (CW08882) dated 21.12.2006	Nagar Palik Nigam Bhilai	30000	3 months	V.K. Vijay (CI) R.R. Gaur (Co-CI) P.M.V. Subbarao(Co-CI) T.R. Sreekrishnan (Co-CI)
7	Feasibility Report on Fruit, Vegetable Waste Treatment & Cow dung for Biogas Production And Enrichment Technology at Gokul Nagar, Municipal Corporation, Raigarh (CW08975) dated 6.02.2007	Municipal Corporation Raigarh	49875	5 months	V.K. Vijay (CI) R.R. Gaur (Co-CI) P.M.V. Subbarao (Co-CI)

8.	Examination of Specification and Bids for TEQIP – Purchase of Variable Compression Engine Test Bed Equipment at College of Technology, GBPUAT, Pantnagar. Oct. 2007 (CW09588)	State Project Facilitation Unit	30,000/-	One month	P.M.V. Subbarao (CI) V.K. Vijay (Co-CI)
9	Evaluation of AMT Membrane Modules for Biogas Purification in Context to Application in India FT/03/1401/2008/1368 dated 5.3.2008	Applied Membrane Technology Inc. MN, USA	10,00,000 /-	One year 5.3.2008	V.K. Vijay (CI) T.R. Sreekrishnan (Co-CI)
10	Running of Newly Developed Institute MGIRI at Wardha (CW08546)	KVIC	77,000,00	1.1.2008 One year	Rajendra Prasad (CI) P.L. Dhar (Co-CI) R.R. Gaur (Co-CI) V.K. Vijay (Co-CI) V. Sheshadri (Co-CI)
11.	Evaluation of DPR of Biogas Project at Village Mohana, Distt. Sonapat for Enrichment and Bottling	M/S Hindustan Dairy Farm & Biogas Organic Fertilizer Plant, Delhi	65,000	2.2.2009 Three months	V.K. Vijay (CI)
12	Effect of Methapulus on production of biogas under representative Indian Conditions ( FT/03/1463/2009 in collaboration Him Renewable Energy &Env. Consultant, Dharmshala ( HP)	M/s DSM Anti-invectives India Ltd , Gurgaon	6,90,000 + 2,50,000	19.08.200 9 6 months	DrV.K.Vijay ( CI)
13	Animal dung/alternate feed material based captive power generation in decentralized mode and biogas enrichment and bottling for rural applications at Shri Krishna Gosala, Jaleda, District Baran, Rajasthan FT/03/1488/2009/1276 dated 4.12.2009	Dept. of Science and Tech, Govt. of Rajasthan	2,00,000	4.12.2009 One year	DrV.K.Vijay ( CI)



14	One day Training Programme on Capacity Building for Adoption of Biogas Technology on 29.3.2011 at IIT Delhi sponsored by an (FT/06/449/2011/3050 dated 8.3.11	NGO FORCE New Delhi	70,000	One day 29.3.2011	CI -Dr Anushree Co-CI Dr VK Vijay
15	Design and development of high capacity biogas enrichment system using water scrubbing method FT/05/200/2011/5347 dated 12.12.2011	Nandi Energy Systems Pvt Ltd Andhra Pradesh	11,50,000	One year 12.12.201 1	CI- PMV Subbarao Co- p I VK Vijay
16	Project Management Cell ( BGFP projects) MNRE FT/11/059/2011/3006	IREDA, MNRE GOI	6% of the total project support of MNRE on BGFP projects	24.2.2011 And FT/1/059/ 2011/0283 dated 14.2.2013	CI
17	Technical and field performance Evaluation of Flexi Biogas Plants FT/03/1682/2013/1053 dated 13.6.2013	Int. Fund for AgriDeveleop ment, Rome Italy	US\$ 20000	13.6.2013 for 9 months Upto 15.3.2014	CI
18	Design and Development of Biogas enrichment and bottling system of 100 cum/hr	Mahindra & Mahindra Mahindra Research Valley,Chenn ai	11,23,600	Nine months from 3.7.2014	CI- V k Vijay Co-CI PMV Subbarao
19	Scientific study of performance of improved biomass cook stoves under actual use conditions and to develop manual for the same	GIZ, GmbH Germany	Euro 1,43,532. 48 Rs 1,15,87,3 77	4 months from 28.7.2014	CI- V k Vijay Co-CI Prof Rajendra Prasad
20	Biogas production and upgradation technology Training module to Santa Maria university Peru	Santa Maria university Peru, South America	USD 7000	5 Days from 23/5/2016	CI- V k Vijay Co-CI Prof PMV Subbarao & Dr. Ram Chandra