

LIST OF SPONSORED PROJECTS (DDAS)

Sl. No.	Title of the project	Period	Total cost (INR)	Agency	Present status
1	Two-stage biomethanation of MSW to improve bioleachate production and biogas generation	1991 to 1994	13.7 laks	DNES, Govt. of India	Completed
2.	Production of hydrogen as a cleaner fuel through waste recycling (PHF)	1999 to 2001	21.64 Lakh	DBT, Govt. of India	Completed
3.	Improvement of hydrogen production by over expression of the hydrogenase producing gene of high yielding strain of <i>Enterobacter cloacae</i> IIT-BT 08 in fast growing <i>Escherichia coli</i> (IHP)	2001 to 2004	25.60 Lakh	DBT, Govt. of India	Completed
4.	Biohydrogen production by investigation on the hydrogenase coding gene of high yielding strain of <i>Enterobacter cloacae</i> IIT-BT 08 in fast growing <i>E coli</i> (BHP)	2003 to 2007	5.25 Lakh	DST-NSF (Indo-USA)	Completed
5.	Improvement of hydrogen production from industrial wastes using hybrid bioreactor (UHB)	2004 to 2007	23.72 Lakh	DBT, Govt. of India	Completed
6.	Amelioration of hydrogen production from sewage sludge using <i>Enterobacter cloacae</i> IIT-BT 08 (AHP)	2004 to 2007	14.03 Lakh	DBT, Govt. of India	Completed
7.	Studies on the Fe-hydrogenase genes of prokaryotes and eukaryotes for the improvement of hydrogen production (FEH)	2004 to 2006	3.92 Lakh	DST-DAAD (Indo-Germany)	Completed
8.	Scale-up studies on the production of therapeutically important protein (FGF 8) by recombinant <i>E. coli</i> (FGF)	2005 to 2007	12.00 Lakh	MHRD, I Govt. of India	Completed
9.	Scale-up studies on production of hydrogen from <i>Enterobacter cloacae</i> IIT-BT 08 (HEC)	2005 to 2008	24.90 Lakh	MNES, Govt. of India	Completed
10.	Maximization of Gaseous Energy Recovery by Simultaneous Biohydrogen Production and Biomethanation (MGE)	2006 to 2009	21.55 Lakh	DBT, Govt. of India	Completed
11.	BioCO ₂ : An integrated multidisciplinary project using solar energy for production of renewable hydrogen combined with CO ₂ capture, to address global warming and energy production (IMP)	2008 to 2011	302.4 Lakh	Norwegian Ministry of Foreign Affairs (MFA), NORWAY	Completed
12.	Continuous hydrogen production in a photo bioreactor using spent medium of dark fermentation process (CHP)	2008 to 2011	21.72 Lakh	DRDO, Govt. of India	Completed
13.	Design and Development of Microbial Fuel Cells (MFC)	2009 to 2012	13.18 Lakh	BRNS, Govt. of India	Completed
14.	High rate Algal biomass Production for food, feed, biochemicals and biofuels (ABP)	2010 to 2014	138.28 Lakh	DBT, Govt. of India (Indo-Danish collaborative project)	Completed
15.	Mission Mode Project on Hydrogen Production through Biological Routes (HPB)	2010 to 2014	286.64 Lakh	MNRE, INDIA	Completed
16.	Integrating large scale biohydrogen production and hydrogen fuel cell for sustainable power generation (ASP)	2012 to 2014	9.996 Lakh	DRDO, Govt. of India	Completed
17.	Maximization of Gaseous Energy Recovery from Organic Wastesthrough Biohythane Process (EOT)	2016 to 2019	48.12 Lakh	MNRE	Completed
18.	Mass Cultivation of Microalgae for the Production of High Value Biofuel Fractions Through Hydrothermal Liquefaction (PVL)	2016 to 2020	65.68 Lakh	MHRD	Ongoing

List of the consultancy projects (DDAS)

Sl. No.	Title of the project	Period	Total cost (INR)	Agency	Present status
01.	Pilot plant design of hydrogen generation system from sewage sludge	2002 to 2003	2.00 Lakh	World Hydrogen Energy (WHE), USA	Completed
02.	Process design for a hydrogen production plant using the supernatant of the sludge treatment plant	2003 to 2004	3.5 lakh	WHE, USA	Completed
03.	Calculation of alcohol loss in the Distillery Plant (ALDP)	2013	4.00 lakh	IFB Agro Industries Ltd., Noorpur	Completed
04.	Biohydrogen Production from Distillery Effluent (BPDE)	2019 to 2022	19.0 Lakh	Dhampur Sugar Mills	Ongoing