



# Synthetic Biology

based on standard parts

## iGEM 2014 Team Information

Team Name:	<b>IIT_Delhi</b>	(Visit their wiki) (Part Submissions)
Primary Contact (PI):	Z A Shaikh	
Schools:	Indian Institute of Technology, Delhi. Delhi, India. www.iitd.ac.in	
Division:	iGEM	Application Date: 2014-02-25
Section:	Overgraduate	
Region:	Asia	Acceptance Date: 2014-04-17 10:26:36
Description:		

### Team Status

**Welcome to iGEM 2014 !** Your iGEM 2014 team application was accepted by iGEM Headquarters on 2014-04-17 10:26:36 and your team registration fee has been received.

- ✓ DNA Kit of Parts shipping information has been entered, thanks. *View shipping information*
- ✓ Resource description has been submitted, thanks. *View resource description*
- ✓ Your registration fee has been received. Thank you. *More...*

### Safety

About Our Lab Form Safety Form Check In Form

### Track More...

Assigned Track: Environment

### Title and Abstract More...

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#### Eco.Coli : Eco-Friendly Reduction of Harmful Oxides from Automobiles and Industrial Emissions

The effects Global Warming has attracted the attention of the major stake holders of the world who believe that the need of the hour is to combat the levels of the toxic greenhouse gases emitted. With increase in the number of automobiles and industries, the emission of harmful greenhouse gases mainly nitrogen and sulphur oxides increases leading to global warming. We plan to build a model involving synthetically engineered E.coli, which is compatible to all the possible exhaust mechanism due to its scalability. We genetically engineered NrfA, CysI and SQR genes in E.coli which would help in converting SO<sub>x</sub> and NO<sub>x</sub> from the exhaust gases of automobiles and chimneys of industries to harmless compounds. Our model is optimized for the efficiency of the reduction of nitrogen and sulphur oxides without compromising on the growth and manufacturing productivity of the industries.

### Team Roster

#### Instructors

zia	Z A Shaikh
jgomes	James Gomes
vsbisaria	Virendra S Bisaria
pmishra	Prashant Mishra

#### Student Members

mayank.sahu	MAYANK SAHU
ishantyaagi73	Ishan Tyagi

arpitjain1995	arpit jain
rish3108	Rishabh Verma
Gunjan	Gunjan Gupta
rohitsuatiija	Rohit Satiija
gaurav.sinsinbar	GAURAV SINSINBAR
kunal.dbeb	KUNAL GUPTA
nishantchaudhary	Nishant Chaudhary
shashank_dbeb_iitd	Shashank Yadav
AbhishekBharti	Abhishek Bharti
abhaytanksali	Abhay Tanksali
harshitsinha	Harshit Sinha
mittal.chirag1994	Chirag Mittal
NikhilPatidar	Nikhil Patidar
sanjay.syng	Sanjay Singh
Rishabh	Rishabh Mathur
Aashika	Aashika Sekar
Atul	Atul Verma
ChandelAngad	Chandel Angad Singh
Neeti	Neeti

This range of part numbers has been assigned to your team for use during the summer: BBa\_K1395000 to BBa\_K1395999