



# ECO Fuel Systems, LLC

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## ECO Systems Fuel Saving Project for Locomotives

### Pilot Project Report

Project start date - April 15, 2015

Project by UPHILL Fueltech Private Limited, Delhi



Raigarh location has 15 locomotives. Each locomotive runs approximate 5,000 hours annually and consumes approximately 50,000 liters of diesel annually. Coal is transported at Raipur facility by network of Rail system comprising of 15 Locomotives with Cummins engines. All these engines run on diesel fuel. Based on three months of testing, fuel savings were 7.18% and smoke was reduced almost 50%.

#### Based on the pilot test, here is the summary for LOCO#13

- Fuel savings 7.18%
- Fuel savings for LOCO #13 Rs.1,59,000 annually
- Payback time for investment 8.34 months
- Return on investments 144%
- Engine performance will be improved
- It will extend life of Locomotive
- 8,100 Kg of Carbon emissions reduced annually.

#### UPHILL Fueltech Technology

ECO System technology is patented and proven US technology which has been in existence since 2000 and has been even approved by USA federal government agencies thru GSA. ECO systems technology helps in reducing fuel consumption 5%-12% and reduces carbon emissions up to 50% depending upon the engine type and other variable factors such as fuel type, age, condition of engine, load and driving conditions. Eco Systems work with Diesel, petrol and natural gas.