

Aquitaine –Karnataka collaboration

Scientific Project for Pre-PhD student exchange

Scientific Proposal

PROJECT TITLE	INVESTIGATION OF GASIFIED VEGETABLE OILS AS SUBSTITUTE FUEL IN SI-ENGINES
SCIENTIFIC DOMAIN	MECHANICAL ENGINEERING IC- ENGINES FIELD
SUMMARY	<p><i>The world is on the bank of energy crisis. The limited fossil fuel sources are unable to provide for the continuously increasing demand of energy. This associated with increasing price of fossil fuels and the awareness of the impacts of environmental pollution and global warming, has forced to search for an alternative source of energy, which is renewable, safe and non-polluting.</i></p> <p><i>The alternative fuels may be vegetable oils and alcohols and these are not able to use in the existing engines strait away because of their drawbacks associated with these oils.</i></p> <p><i>Many researchers are tried to use in the existing engines with many changes and found narrow band of performance in the engines</i></p> <p><i>But still it is not possible to use vegetables oils as alternative fuels in the existing on road vehicles may be in SI or CI Engines because of their ignition delay either with blend with diesel or as a neat fuel.</i></p> <p><i>More over it is very difficulty to use vegetable oils as alternative fuel in petrol engines.</i></p> <p><i>The present invention has been developed in response to the present state and in particular, in response to the problems and needs that have not yet been fully solved by currently available fuel carburetors. Hence we have designed a new fuel supply system where the Petrol/Biodiesels/ Vegetables Oils /Alcohols (having higher viscosity) can be effectively used in the existing on road vehicle. With this modified fuel supply system the engine performance of the vehicle and emission tests are to be conducted</i></p>
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TIMING AND DURATION FOR PROJECT	<i>June To December 2015</i>
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