1. STARTUP - ANNAMAYA FUEL VAPOR INJECTION SYSTEM INDUSTRY PVT. LTD.

Date of registration of Company: **16-09-2021**.

The Corporate Identity Number of the company is **U34100AP2021PTC119434.**

The Permanent Account Number (PAN) of the company is **AAVCA7930M**

The Tax Deduction and Collection Account Number (TAN) of the company is **VPNA06621G.**

Startup Certificate no**.:** ***DIPP91490***

Startup Certificate Date of Issue**: 21-12-2021**

Startup Certificate Valid Upto**: 15-09-2031**

Details of the Students and Faculty:

Director-1: Dr.D.Krishna Mohan Raju

Professor & Dean of Innovation and Incubation Centre, Mechanical Engineering Dept.,, AITS-Rajampet.

Director-2: G.Sreenivasulu.

H.T.No.:16701A0341, Mechanical Engineering, AITS-Rajampet.

Member: P.V.Balaji.

H.T.No.:17701A0375, Mechanical Engineering, AITS-Rajampet.

BUSINESS DETAILS:

The company is planning to develop the successful working prototype of Fuel vapor Injection system suitable to particular automobile. Dr.D.Krishna Mohan Raju has received the Patent grant for the above mentioned invention. We are planning to establish the industry in the Annamacharya Institute of Technology and Sciences, New Boyinapalli, Rajampet-516126, Kadapa District. After successful development of working prototype, the industry is planning to manufacture the Fuel vapor Injection system and supply to that particular Automobile Industry.

SPECIALITIES:

In the existing CRDI fuel pump used in the diesel engines injects the right quantity of liquid fuel into the cylinder at right time with very high pressure (2500 bar) to meet the Euro-VI standards.

This ultrahigh pressure liquid fuel injection system is costing around Rs. 2.5 lakhs for one car engine. This high pressure fuel injection helps to mix the liquid fuel with compressed air uniformly at a very faster rate. Thereby the combustion process will be complete with negligible emissions. Whereas in the present invention, the 700 bar pressure liquid fuel pumped by the low cost inline fuel injection pump is converted into 700bar vapour at 250°C by using the electrical heating provided along the high pressure fuel supply line and then this high pressure fuel vapour is injected into the cylinder through specially designed fuel injectors. As the high temperature and high pressure fuel vapour mixes with the compressed air uniformly at a faster rate, the combustion process will be completed with negligible emissions and meets the Euro-VI emission standards. The expected cost of this fuel vapour injection system will be around Rs. 60,000/- which is $1/4^{th}$ of existing Euro-VI CRDI fuel injection system.

SUCCESS STORY:

The Start-up company is still in the process of consulting the automobile companies to get the funds for developing a fuel vapour injection system suitable to a particular engine successfully. Afterwards only, we are planning to raises funds from Angel investors and banks for establishing the manufacturing industry to manufacture fuel vapour injection system. After establishing the fuel vapour injection manufacturing industry, the proposed start up generate the revenue by supplying the fuel vapour injection systems to the tied up automobile manufacturing company.