

Pankaj Kumar Pandey

Tata Motors Limited Lucknow

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Permanent Address: H.no. 180 Sohang District – Kushinagar (Uttar Pradesh)

## Work Experience

**Organization** : Tata Motors Limited (Tata technologies)

**Department** : Vehicle engineering (Outdoor Testing)

**Designation** : Senior Engineer

**Tenure** : 25<sup>th</sup> Oct. 2018 – Present

**Role in Company** :

- Conducting **vehicle performance on road test** like through gear Acceleration, wide open throttle performance in each gear, part throttle performance, max speed test, Gradeability & Coastdown test for bus platform (Diesel, CNG and Electric vehicle) and **analyze their data** (both subjective & objective).
- Responsible for testing & validation of **Fuel Economy, Constant speed fuel consumption trial, Range evaluation trial** on entire bus platform & analyze their duty cycle.
- Responsible for **brake performance testing** (Brake test, Stopping distance & MFDD) for proto & benchmark vehicle.
- Plan and manage **highway endurance, durability and reliability testing, field failure, root cause analysis** with 8D technique, maintain daily vehicle log book, off road and all road capability validation, new product development, joint inspection, serviceability, cost of ownership analysis.
- Successfully Validation of Fuel Economy Improvement technologies like – **Start Stop & Idle Start Stop feature**, Cruise control feature, Load based speed control, Vehicle acceleration management, I APU, Lean alternator, Low CRR tyre and unitized bearing etc.
- Responsible for **Pre CMVR trials** and coordinating with team at test agencies for scheduling and execution of the test and provide support for **CMVR (homologation) trial**.
- Resolve issue related to EMS system with the help of diagnostic tool (**TDS, Cummins Insite and INCA**) and also develop root cause analysis report.
- Validation of **OBD II Trial** as per BSVI vehicle requirements.
- Validation of MIL strategies for A, B1, B2 and C class fault code.
- Working experience on **PLM** and **RMDVV** for product life cycle management and database management.
- Sound knowledge of data logger like **CAN data logger** (Intrepid, Influx and Cummins Insite), **DAS 2A, V box (Mini, 3I)** and instruments like **load cell, fuel flow meter, pedal force meter, anemometer** and sensors like **RPM sensor, pressure transducer, thermocouple** etc.
- Knowledge of analysis software like **Unipilot, Concerto, Cameo, MS Excel** etc.
- Discussion with vendor for component level improvements to improve overall vehicle level fuel economy.
- Actively participated in VAVE (value addition and value enhancement) generation & validation on vehicle.

## Previous Work Experience

**Organization** : Volvo Eicher commercial vehicle  
**Department** : Engine Development Center (EDC)  
**Designation** : Vehicle calibration & Testing Engineer  
**Tenure** : 05<sup>th</sup> May. 2018 – 15<sup>th</sup> Oct 2018

**Role in Company** :

- Responsible for Engine & vehicle level calibration for E494 BSVI engine.
- Calibration software **INCA**, and testing software **PUMA** knowledge.
- **Creation of base calibration file** and their management related to changes done in calibration.
- Execution of DOE for engine calibration.
- Knowledge of analysis software like **Uniplot, Concerto, Cameo**.
- Knowledge of **WHSC, WHTC, FTP** and **PTP** trial on testbed.

## Previous Work Experience

**Organization** : A. B. Grain Spirits Pvt. Ltd.  
Delhi Transport Division  
Ashok Leyland & Tata Marco polo Commercials Vehicles (Workshop)

**Tenure** : 17<sup>th</sup> Aug. 2015 – 1<sup>st</sup> of May 2018

**Designation** : Service Engineer.

**Role in Company** :

Complete EMS, Maintenance, Preventive maintenance, Overhauling, and Servicing of following parts of **Ashok Leyland's & Tata Marco polo** semi low floor CNG buses.

- HINO 6E engine and TATA 697 NA engine
- Axial spring clutch, Synchromesh gear box, Rear axle and differential.
- CNG supply system.
- Pneumatic brake system.
- Electrical system used in buses.
- Hydraulic assisted power steering.

## Responsibility:-

- Responsible for **vehicle and engine assembly & disassembly**.
- Rectify failures occurs in vehicles like (brake, clutch, gearbox, tyre and engine etc.) and analysis of root cause of failure.
- Analysis of Fuel economy deterioration in CNG vehicle.
- Regularly maintain plant and machineries installed in depot.
- Maintain stocks of all spare parts, oil and lubricants.
- Timely maintain fleet pre-out shedding checking, docking and accidental repairs.
- Prepare record of breakdown, complaints and its analysis.

## Workshop Training

- Maintenance for vehicle to increase life of tyres by M/s JK tyres & Industries Ltd.
- Preventive maintenance of air suspension system by M/s Wheels India Ltd.
- Preventive maintenance of alternators, starter motors and battery system by M/s Lucas-TVS.
- Preventive maintenance of air brake system components and air compressors by M/s Wabco.
- Training for maintenance of Compressed Natural Gas supply system by M/s Ashok Leyland.

## Education

Examination	Year of Passing	School/College	University/Board	Percentage
B. Tech (Mechanical Engineering)	2015	IIMT College of Engineering, Greater Noida	Uttar Pradesh Technical University, Lucknow	71.78
XII	2010	P. N. M. Inter college Kushinagar, (U.P.)	Uttar Pradesh Board, Allahabad	65
X	2008	J.I. College Sohang Kushinagar, (U.P.)	Uttar Pradesh Board, Allahabad	67