



Figure 22. Typical 30 min evening driving cycle (tested with solar assisted electric auto rickshaw)

Table 8. Test results of electric auto rickshaw

Variable	Day time	Evening
Time (Hours)	2.5 (8.00-10.30A.M)	2.5 (6.00-8.30P.M)
Distance (Km)	35	23
Max.speed (Kmph)	45	45
Average Speed(Kmph)	27	22
No. of stops	20	32
Stoppage Time (min)	30	42

6. CONCLUSION

The paper has been taken up with the motive of bringing about a radical change in the way auto rickshaws contribute towards urban pollution and providing a feasible solution for the same. The primary objective is to have zero tail pipe emissions and replace the fossil fuel dependency. This helps in moving towards greener society. This benefits the people who make a living out of auto rickshaws as they can save more in the long run though capital costs are on the higher side. The prototype is to prove practically that this concept can be implemented in an auto rickshaw which has a massive role to play in public transportation in most of the Asian countries. The prototype developed had a zero emission at the tail pipe with the usage of renewable solar energy. From the test results it is concluded that the fabricated solar assisted auto rickshaw mimic the existing conventional auto rickshaws.

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