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SAPTHAGIRICOLLEGE OF ENGINEERING

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Department of Computer Science and Engineering

Certificate

Certified that the project work entitled **"EFFICIENT LZW ALGORITHM FOR DATA COMPRESSION USING GPGPU"** carried out by **RAJ PRAMODH K M (1SG12CS083), SHRUTHI G M (1SG12CS106), DHANUSH M (1SG13CS404), MAMATHA T (1SG12CS407)** bonafide students of **Sapthagiri College of Engineering,** in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during the academic year **2015-16.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

18/5/16		
Signature of the Guide	**Signature of the HOD**	**Signature of the Principa**
Prof. Pathanjali C	**Dr.C.M.Prashanth**	**Dr.Aswatha Kumar**
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ABSTRACT

Data compression is an important area of information and communication technologies as it reduce the number of bits used to store or transmit information. It will efficiently utilize the memory spaces and allows to transmit data within a limited bandwidth. Data compression process is achieved by removing data redundancy while preserving information content. Data compression algorithms exploit some characteristics to make the compressed data smaller than the original data. Data compression on graphics processors (GPUs) has become an effective approach to improve the performance of main memory. In a parallel computing platform it enables dramatic increases in computing performance with graphics processing unit (GPU).

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