A

Project Report On

**VEDIC MULTIPLIER**

Submitted in partial fulfilment of the requirements for award of the degree of

**BACHELOR OF TECHNOLOGY**

In

**ELECTRONICS AND COMMUNICATION ENGINEERING**

By

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Of

ECIL-ECIT

**ELECTRONICS CORPORATION OF INDIA LIMITED**

(A Government of India Enterprise)



**DEPARTMENT OF ELECTONICS AND COMMUNICATION ENGINEERING**

**KL UNIVERSITY**

(Declared as Deemed to be University u/s 3 of the UGC act,1956)

Accredited by NAAC with 'A++' Grade

**DECLARATION**

We hereby declare that the project entitled VEDIC MULTIPLIER

submitted in partial fulfilment of the requirements for the award of degree of **Bachelor of Technology** in **Electronics and Communication Engineering**. This dissertation is our original work and the project has not formed the basis for the award of any degree, associate ship, fellowship or any other similar titles and no part of it has been published or sent for the publication at the time of submission.

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# Organization profile

ECIL was setup under the department of Atomic Energy in the year 1967 with a view to generate a strong indigenous capability in the field of professional grade electronic. The initial accent was on self-reliance and ECIL was engaged in the Design Development Manufacture and Marketing of several products emphasis on three technology lines viz. Computers, control systems and communications. ECIL thus evolved as a multi-product company serving multiple sectors of Indian economy with emphasis on import of country substitution and development of products and services that are of economic and strategic significance to the country.

Electronics Corporation of India Limited (ECIL) entered into collaboration with OSI Systems Inc. (www.osi-systems.com) and set up a joint venture "ECIL\_RAPSICAN LIMITED". This Joint Venture manufacture the equipment’s manufactured by RAPSICAN, U.K, U.S.A with the same state of art Technology, Requisite Technology is supplied by RAPSICAN and the final product is manufactured at ECIL facility.

Recognizing the need for generating quality IT professionals and to meet the growing demand of IT industry, a separate division namely CED has been established to impart quality and professional IT training under the brand name of ECIT. ECIT, the prestigious offshoot of ECIL is an emerging winner and is at the fore front of IT education in the country.

**Mission**

ECIL’s mission is to consolidate its status as a valued national asset in the area of strategic electronics with specific focus on Atomic Energy, Defense, Security and such critical sectors of strategic national importance.

**Objectives**

* To continue services to the country’s needs for the peaceful uses Atomic Energy. Special and Strategic requirements of Defence and Space, Electronics Security System and Support for Civil aviation sector.
* To establish newer Technology products such as Container Scanning Systems and Explosive Detectors.
* To re-engineer the company to become nationally and internationally competitive by paying particular attention to delivery, cost and quality in all its activities.
* To explore new avenues of business and work for growth in strategic sectors in addition to working realizing technological solutions for the benefit of society in areas like Agriculture, Education, Health, Power, Transportation, Food, Disaster Management etc.

**Divisions**

The Company is organized into divisions serving various sectors, national and Commercial Importance. They are Divisions serving nuclear sector like Control & Automation Division (CAD), Instruments & Systems Division (ISD), Divisions Serving defence sector l