



Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:10-12-2020

| | | | |
|------------------|------------------------|-----------------|-----------|
| Department | MECHANICAL ENGINEERING | Application No. | 202020094 |
| Area of Research | QUALITY | Research Mode | PART TIME |

Name :R.KUMARASAMY
Date of Birth / Age :03-05-1970 / 50 Years
Gender :MALE
Category :BC
e-Mail ID :kumarasamy.r@tvsss.co.in
Mobile :9345735956



R. Kumarasamy

| | | | |
|---|--------------|--|------------|
| Father's/Husband's Name | G.RANGASAMY | Father's/Husband's Occupation | DRIVER |
| Family Income | 10 LAKHS | Residential Type | URBAN |
| Birth Place | TINDIVANAM | Mother Tongue | TAMIL |
| Religion | HINDU | Martial Status | MARRIED |
| Aadhaar No. | 495224810877 | PAN No. | AXGPK2712A |
| Physically Challenged | NO | Type of Disability | - |
| Address for Communication: 643, MAHARAJA DELUX VALAR NAGAR , UTHANGUDI MADURAI MADURAI DISTRICT TAMIL NADU INDIA Pin-625107 | | Permenant Address: 643,MAHARAJA DELUX VALAR NAGAR,UTHANGUDI MADURAI MADURAI DISTRICT TAMIL NADU INDIA Pin-625107 | |

| Qualification | | | | | | |
|---------------|--------------------|--------------------|-------------|----------|-------|------------|
| Degree | Discipline | College/university | Year Passed | AVG/CGPA | Class | Mode |
| DIPLOMA | MECHANICAL | SAPT | 1990 | 83% | I | REGULAR |
| DEGREE | MECHANICAL | BITS | 2010 | 60% | I | CORRESPOND |
| DEGREE | QUALITY MANAGEMETN | BITS | 2012 | 60% | I | CORRESPOND |

| Experience | | | | |
|--|--------------|-----------------|---------------|-----------------------------|
| Organization | Designation | Experience From | Experience TO | Work Nature |
| UCAL FUEL SYSTEMS PVT LTD., | JR.ENGINEER | 1990-04-10 | 1996-10-12 | SUPPLIER QUALITY MANAGEMENT |
| RANE TRW STEERING SYSTEMS LTD., | ENGINEER | 1996-10-13 | 1998-11-15 | PROCESS QUALITY MANAGEMENT |
| MITSUBISHI ELECTRIC AUTOMOTIVE INDIA PVT LTD., | ASST.MANAGER | 1998-11-16 | 2003-03-10 | SYSTEM QUALITY MANAGEMENT |
| TVS SENSING SOLUTIONS PVT LTD., | DGM | 2007-05-10 | 2020-12-10 | HEAD QA |

| Payment Details |
|-----------------|
|-----------------|

| Transaction ID | Reference | Date of transaction | Amount | Status |
|------------------------|----------------|---------------------|--------|---------|
| 202020094_201214170704 | VICI9558143943 | 14-12-2020 | 600 | SUCCESS |

Ph.D. Research Proposal

Doctoral Program in Quality Management

“ Minimization of Rejection Rate using Lean six sigma
Tools and techniques in Manufacturing Industry”

R.KUMARASAMY

Kumarasamy.r@tvsss.co.in

TVS Sensing solutions private ltd.,
Madurai – Melur Road, Vellaripatti,
Madurai.

Date : 12.12.2020

Research Proposal on Quality Improvement

Title :

Minimization of Rejection Rate using Lean six sigma Tools and techniques in Manufacturing Industry”

Background :

In the automotive industry there are challenges to overcome the manufacturing defects during the regular production to meet the customer needs. Selection of this project is to help the organization to meet customer demand of QCDS.

Objective :

The objective of this research is the pilot implementation of six sigma DMAIC phases to improve the rejection rate of manufacturing industry. The current global market is focusing on zero defects that are 3.34 defectives per million parts produced. Six Sigma places the emphasis on financial results that can be achieved through the virtual elimination of products and process defects. Profits and industry stakeholder value is maximized

Project summary :

In this research it is planned to analyze a case study by implementing six sigma tool for minimization of rejection rate. The defect is identified by process flow, pareto chart, fish bone diagram and all were also adopted to analyze the depth of the issue and to identify the critical factors which is required for controlling and improving the overall expectations for the zero rejection rate.

Literature Reviw:

- Lean Tools Execution in a Small Scale Manufacturing Industry for Productivity Improvement- A Case StudyS. Nallusamy, V. Saravanan, Computer Science2016

- Implementation of Lean Tools in an Automotive Industry for Productivity Enhancement - A Case Study,S. Nallusamy, M.A. Adil Ahamed, Engineering, 2017.

Result expected :

To reduce the rejections rate to the lowest level to get benefit to the organization to improve the bottom line.

Research Time line :

It is expected to complete the project within three years.

The Birla Institute of Technology & Science

Upon the Recommendation of the Senate hereby confers on

Kumarasamy R

The Degree of

Bachelor of Science (B.S.)

In

Engineering Technology

in recognition of having attained proficiency in the General and Special Studies and having fulfilled all the requirements of the degree and having been placed in the Second Division.

Given this thirty-first day of March, two thousand twelve under the Seal of the Birla Institute of Technology & Science at Pilani in the State of Rajasthan, India.



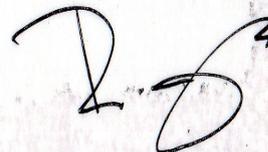
DIRECTOR



REGISTRAR



CHANCELLOR



VICE-CHANCELLOR





The Birla Institute of Technology & Science

Upon the Recommendation of the Senate hereby confers on

Kumarasamy R

The Degree of

Master of Science (M.S.)

In

Quality Management

in recognition of having attained proficiency in the General and Special Studies and having fulfilled all the requirements of the degree.

Given this sixteenth day of July, two thousand fourteen under the Seal of the Birla Institute of Technology & Science at Pilani in the State of Rajasthan, India.

DIRECTOR

REGISTRAR



CHANCELLOR

VICE-CHANCELLOR

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI (RAJ.), INDIA
GRADE SHEET

DATE OF ISSUE

| | | |
|------------|---------------------------------|----------------------|
| PAT | FIRST SEMESTER 2012-2013 | 16 Jan., 2013 |
|------------|---------------------------------|----------------------|

IDNO 2012HZ74062 (SENIOR MANAGER)
NAME KUMARASAMY
ADDR M/S ZF ELECTRONICS TVS INDIA PVT.LTD.,
 307, KUBERAN HOUSE, FIRST MAIN ROAD
 VALAR NAGAR
 UTHANGUDI
 MADURAI 625107 (TAMILNADU)

| COURSE NO | COURSE TITLE | UNITS | GRADE |
|-----------|---------------------------|-------|-------|
| QMJ ZG511 | TQM-CORE CONCEPTS | 5 | A- |
| QMJ ZG521 | QUALITY MGMT SYSTEM | 5 | A- |
| QMJ ZG531 | STATISTICAL PROCESS CONTR | 5 | A- |
| QMJ ZG512 | HUMAN RES MGT & ORG LEARN | 5 | A- |

Sujit Kumar

REGISTRAR

| | |
|--------------------------------|------|
| ACCUMULATED UNITS | 20 |
| UNITS USED IN CALCULATING CGPA | 20 |
| CGPA | 9.00 |

**BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI (RAJASTHAN) INDIA
TRANSCRIPT**

ID NO 200818TS143

NAME KUMARASAMY R

Degree(s) Completed:

B.S. (Engineering Technology)

CGPA : 5.80 Division : SECOND

| | | COURSE NO | COURSE TITLE | UNITS | GRADE | |
|------------------------------|------|-----------|--------------------------------|-------|-------|---------------|
| FIRST SEMESTER 2008-2009 | MATH | ZC161 | ENGG MATHEMATICS I | 3 | E | |
| | ENGG | ZC111 | ELECT & ELECTRONICS TECH | 3 | E | |
| | TA | ZC312 | TECHNICAL REPORT WRITING | 3 | C | |
| | MGTS | ZC211 | PRINCIPLES OF MANAGEMENT | 3 | D | |
| | | | | | | CGPA ... 3.50 |
| SECOND SEMESTER 2008-2009 | AAOC | ZC111 | PROBABILITY AND STATISTICS | 3 | D | |
| | TA | ZC142 | COMPUTER PROGRAMMING | 3 | C | |
| | MATH | ZC232 | ENGG MATHEMATICS II | 3 | E | |
| | ES | ZC261 | DIGITAL ELECT & MICROPROCESSOR | 3 | D | |
| | | | | | | CGPA ... 3.75 |
| FIRST SEMESTER 2009-2010 | ENGG | ZC241 | MECHANICAL TECHNOLOGY | 3 | C | |
| | AAOC | ZC222 | OPTIMISATION | 3 | D | |
| | TA | ZC232 | ENGINEERING MEASUREMENTS | 3 | D | |
| | ENGG | ZC232 | ENGINEERING MATERIALS | 3 | C | |
| | | | | | | CGPA ... 4.17 |
| SECOND SEMESTER 2009-2010 | MATH | ZC161 | ENGG MATHEMATICS I | 3 | C | ER |
| | ENGG | ZC111 | ELECT & ELECTRONICS TECH | 3 | E | ER |
| | ET | ZC342 | MATERIALS MANAGEMENT | 3 | C | |
| | ET | ZC412 | PRODUCT PLAN & CONTROL | 3 | C | |
| | | | | | | CGPA ... 4.71 |
| FIRST SEMESTER 2010-2011 | MATH | ZC232 | ENGG MATHEMATICS II | 3 | D | ER |
| | ENGG | ZC242 | MAINTENANCE & SAFETY | 3 | B | |
| | ET | ZC432 | QUAL CTRL ASSUR AND RBLTY | 3 | C | |
| | ET | ZC414 | PROJECT APPRAISAL | 3 | B | |
| | | | | | | CGPA ... 5.29 |
| SECOND SEMESTER 2010-2011 | ENGG | ZC111 | ELECT & ELECTRONICS TECH | 3 | C | ER |
| | ET | ZC341 | INSTRU & CONTROL | 3 | B | |
| | BITS | ZC471 | MANAGEMENT INFO SYST | 3 | B | |
| | ET | ZC362 | ENVIRON POLLUTION CONTROL | 3 | C | |
| | | | | | | CGPA ... 5.80 |
| FIRST SEMESTER 2011-2012 | BITS | ZC423T | PROJECT WORK | 20 | GOOD | |
| | | | | | | CGPA ... 5.80 |

[Signature]

REGISTRAR

(Continu

SWAMY ABEDHANANDHA POLYTECHNIC

THELLAR - 604 406.

(N. A. Dt. Tamilnadu)

TRANSFER CERTIFICATE

No 655

- 1 Name of the student in full R.KUMARASAMY
- 2 Name of Father or Guardian G.Rangasamy
- 3 Nationality, Religion and Caste as entered in the S. S. L. C. Indian, Hindu, Agamudayar (BC)
- 4 Date of birth as entered in the S.S.L.C. 03.05,1970 (Third May Nineteen seventy)
- 5 Date on which he was admitted in the Polytechnic August 7, 1987
- 6 Date on which he leaves or he has left the Polytechnic April 20, 1990
- 7 Class in which he is studying at the time of leaving the Polytechnic 3rd year, 6th semester/Mechanical Engg.
- 8 Whether qualified for promotion to a higher class Refer to the mark sheets
- 9 Whether he has paid all dues Yes
- 10, Conduct and Character GOOD
11. Date on which application for transfer was made April 20, 1990
12. Reason for the issue of Transfer Certificate Course completed.

Station: Thellar.

Date: 20.04.90



Principal.

SPECIAL OFFICER,
SWAMY ABEDHANANDHA POLYTECHNIC

THELLAR - 604 406 - N. A. DT.

PROFESSIONAL EXPERIENCE :

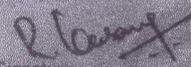
1. Organization : **M/S TVS SENSING SOLUTIONS PVT. LTD.,**
(**PRESENT**)
Designation : DGM -QA
Period of service : Since May 2007.
Department : Quality
Product : OE parts for Automobile majors & Home appliances.
(Electrical switches, Sensors & Relays)
2. Organization : **M/S JAY USHIN LIMITED.,**
(Joint Venture with Ushin Ltd., Japan)
Designation : Sr.Manager – Mfg & QA
Period of service : Oct 2003 to May 2007.
Department : Quality
Product : OE parts for Automobile majors.
(Lock sets, Switches, Ignition coil etc.,)
3. Organization : **M/S MITSUBISHI ELECTRIC AUTOMOTIVE
INDIA PVT LTD.,**
Designation : Asst..Manager – Q.A
Period of service : April 1999 to Oct 2003
Department : Quality
**Product : OE parts for Automobile majors.
(Electronic control unit, Relays, Sensors etc,)**
4. Organization : **M/S JAY USHIN LIMITED.,**
(Joint Venture with Ushin Ltd., Japan)
Designation : Sr.Engineer– Q.A
Period of service : Sep1998 to April 1999.
Department : Quality – Machine shop and assembly
Product : OE parts for Automobile majors.
(Lock sets, Switches, Ignition coil etc.,)
5. Organization : **M/S RANE TRW STEERING SYSTEMS LTD.,**
Designation : Engineer – Q.A
Period of service : Dec 1996 to Sep 1998
Department : Quality – Machining- Cast iron
Product : **OE parts for Automobile majors.
(Power steering and pump)**
6. Organization : **M/S UCAL FUEL SYSTEMS LTD.,**
Designation : Jr.ENGINEER – Q.A
Period of service : Mar 1991 to Dec 1996
Department : Quality - Machine shop and assembly
Product : **OE parts for Automobile majors.
(Carburettors and Fuel injection)**

आयकर विभाग  **भारत सरकार**
INCOME-TAX DEPARTMENT **GOVT. OF INDIA**

KUMARASAMY R.
RANGASAMY

03/05/1970

Permanent Account Number
AXGPK2712A


 Signature



16122007

इस कार्ड के खोने / जाने पर कृपया सूचित करें / सूचित करें।
 आयकर पैन कार्ड इकाई, एन एस डी एल
 पहली मंजिल, टाइम्स टॉवर, कमला मिल्स कंपाउंड,
 एन. सी. रोड, लोअर परेल, मुम्बई - 400 013

If this card is lost / someone's lost card is found,
 please inform / return to:

Income Tax PAN Services Unit, NSDI
 1st Floor, Times Tower,
 Kamala Mills Compound,
 N. C. Road, Lower Parel, Mumbai - 400 013

e-mail: timinfo@nsdi.co.in

R. Rangasamy

UNION OF INDIA Driving Licence (Tamil Nadu)

DL. No. **TN22 1999008829** (NT)

Date of Issue: **11-08-1999** Valid Till: **10-08-2024**

Date of Birth: **03-05-1970** Blood Group: **A+**

Name: **R KUMARASAMY**

Son/Daughter/Wife of: **G RANGASAMY**



TN D01289282 **TN22 1999008829**

LMV 11-08-1999
MCWG 11-08-1999

Badge Date
Badge No.

Address: **307 KUBERAN HOUSE
VALARNAGAR
UTHANGUDI, MADURAI 625107**

Holder's Signature

Signature of Issuing Authority
TN59 MDU NORTH RTO

Form 7 (Rule 162)

R. Kumarasamy

SWAMY ABEDHANANDHA POLYTECHNIC

THELLAR - 604 406.

(N. A. Dt. Tamilnadu)

TRANSFER CERTIFICATE

No 655

- 1 Name of the student in full R.KUMARASAMY
- 2 Name of Father or Guardian G.Rangasamy
- 3 Nationality, Religion and Caste as entered in the S. S. L. C. Indian, Hindu, Agamudayar (BC)
- 4 Date of birth as entered in the S.S.L.C. 03.05,1970 (Third May Nineteen seventy)
- 5 Date on which he was admitted in the Polytechnic August 7, 1987
- 6 Date on which he leaves or he has left the Polytechnic April 20, 1990
- 7 Class in which he is studying at the time of leaving the Polytechnic 3rd year, 6th semester/Mechanical Engg.
- 8 Whether qualified for promotion to a higher class Refer to the mark sheets
- 9 Whether he has paid all dues Yes
- 10, Conduct and Character GOOD
11. Date on which application for transfer was made April 20, 1990
12. Reason for the issue of Transfer Certificate Course completed.

Station: Thellar.

Date: 20.04.90



Principal.

SPECIAL OFFICER,
SWAMY ABEDHANANDHA POLYTECHNIC

THELLAR - 604 406 - N. A. DT.

ANNEXTURE - I

CERTIFICATE FROM THE ORGANIZATION WHERE THE CANDIDATE EMPLOYED

Certified that Mr. R.KUMARASAMY is Employed in TVS SENSING SOLUTIONS PRIVATE LTD., as a Dy.General Manager in Quality Assurance .
We have no objection in forwarding his application for Ph.D Research Programme.

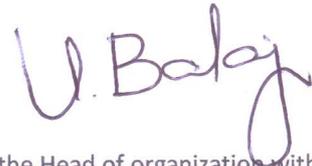
FOR FULL TIME :

The candidate will be sanctioned leave for the duration of the research programme and relieved from duty ----- to ----- to undertake the full time research with university

FOR PART TIME ;

The candidate will be permitted to undertake part time study in the university/College and allowed to present for discussions with supervisor, attending course work, conduct of experiments and participations in seminars and related presentations. Further the required facilities at our organization will also be provided to the candidate for doing research.

Date : 14.12.2020



Signature of the Head of organization with office

TVS Sensing Solutions Private Limited

Madurai-Melur Road

Vellaripatti

Madurai-625 122

GSTIN: 33AAACT6768M1ZU