

# CURRICULUM VITAE



**KALPESH I. MACWAN**

**M.Sc. (CHEMISTRY)**

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## **Career Objective:**

To work in a company, which progresses dynamically, updates my technical knowledge, develops my soft skills and thereby making me a perfect scientist.

## **Address:**

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134/ Pavan Park Society,  
Opposite Roses Garden,  
Old Chhani Road,  
Baroda – 390002.  
Phone No.: +91 9925843466, +91 9106209376

## **Personal information:**

Date of Birth	:	20 <sup>th</sup> December 1983
Gender	:	Male
Marital Status	:	Married
Religion	:	Christian
Nationality	:	Indian
Mother Tongue	:	Gujarati
Language Known	:	Guajarati, Hindi, English

## **Education Qualification:**

Sr. No.	Exam	Institute	Board/University	Year	Class
1	S.S.C.	St. Joseph High School, Baroda	G.S.E.B.	1999	Distinction
2	H.S.C.	St. Xavier High School, Anand	G.S.E.B.	2001	Second
3	B.Sc. (Chemistry)	M.B. Patel Science College, Anand	S.P.University, Anand	2004	Second
4	M.Sc. (Physical & Polymer Chemistry)	M.S.University, Baroda	M.S.University, Baroda	2007	Second

**Academic work:**

- 1 **SEMINAR GIVEN ON SOLAR CELL (A NON CONVENTIONAL SOURCE OF ENERGY), INCLUDING DYE SENSITIZED SOLAR CELL.** Dye used in this type of cell is, Cis- (NCS) bis (4, 4' – dicarboxy – 2, 2' bipyridine) – ruthenium (2)
- 1 **DESSERTATION ON SYNTHESIS AND CHARACTERIZATION OF NEW ORGANIC SALT WITH SURFACE ACTIVE PROPERTY.** Melaminium Hydrogen Meleate found to be excellent hydrogelator and crystal-structure property established that solid-state packing of salt can be compared with dried gel using powder X-ray diffraction technique and it can be extrapolated to gel state in order to get an insight about the probable packing of gelator molecules. It is also a surface active agent up to certain extent.

**Instrumental Knowledge:**

GC, Auto Karl Fischer Titrator, AAS, Auto-Titrator, Flame Photometer, Spectrophotometer, pH meter, Viscometer, Conductivity – TDS meter, Vapour Pressure Osmometer, Flash Point apparatus (COC & PMCC), Pour Point analyzer, Eltel (for Tan $\delta$  & Resistivity), Break Down Voltage (BDV), Distillation Apparatus Salt Spray test equipment, refractometer.

**Computer knowledge:**

Microsoft Office, Internet and SAP operation

**Other Activity:**

- 1 Listening Music
- 2 Reading
- 3 Playing Games
- 4 Photography

**Work-Shop:**

Participated in the One Day Workshop on Application of Thermal Analysis (WATA-08) held at Chemical Engineering Auditorium, Faculty of Technology and Engineering, MSU, Baroda on October 6, 2008.

**Industrial Experience:**

Sr. No.	Company Name	Product	Department	Designation	From	To
1	Quebec Petroleum Resources Limited	Automotive , Industrial and Speciality Oil	QC Laboratory	Manager QC	1/9/2011	Till the date
2	lhasedu	Castor Oil	QC	Sr. Q.C	1/9/2010	11/8/2011

	Speciality Chemicals Pvt. Ltd.	Derivative	Laboratory	Officer		
3	Gujarat Polybutenes Pvt. Ltd.	Polybutene from LPG	QC Laboratory	Sr. Q.C Officer	27/6/2009	31/8/2010
4	Rubamin Ltd.	Cobalt, Copper and Zinc Oxide	R & D Laboratory	Sr. R & D Chemist	8/10/2007	26/6/2009

Nature of Work:

1. Quebec Petroleum Resources Limited:

➤ **From September 2011 to May 2016 – QC**

- All quality related activities for lubricants (Automotive, Industrial & Speciality)
- Analysis of raw material (base oil), packing material (packing container, cartons), extra oil samples, finished material (lubricants) and complaint sample and make test report
- Maintain lab stock and calibration of lab equipment in house and external as per schedule
- Documentation as per ISO 9001

➤ **From Jun 2016 to Till date – R & D**

- Prepare product data sheet and safety data sheet
- Communicate to vendors for development and quality
- Give support to marketing people for their technical query
- Communicate with external lab- SGS, Intertek, Chem-Tech, Aimil
- Give support to plant for their troubleshooting activities in manufacturing process
- Development of product based on customer need, give support for their troubleshooting activities, also give product trial at customer site
- New product formulation
  - Straight cutting oil- Neat Cutting Oil
  - Soluble Cutting oil & Emulsifier
  - Coning oil & Emulsifier
  - Knitting oil & Emulsifier
  - Rust Preventive oil
  - Additive for four stroke engine oil- two wheeler
  - Additive for Heat transfer and Quenching oil
  - Additive for CNG engine oil
  - Additive for Hydraulic oil
  - Additive for Gear Oil
  - Additive for TO4, C4
  - Paper catalyst based on Anthraquinone and Surfactant for Hardwood and Agro products- **Special Achievement**

2. Ihsedu Speciality Chemicals P Limited (Jayant Agro Group):
  - Analysis of raw material (sulfuric acid, caustic, phenol, castor oil), finished product (sebacic acid, glycerin, sodium sulphate, fatty acid), waste water analysis and make test report as per ISO 9001
  - Maintain lab stock and calibration of lab equipment as per requirement/schedule
3. Gujarat Polybutenes P Limited:
  - Analysis of raw material (hydrochloric acid, caustic, LPG), finished product (Polyisobutene of different grade), waste water analysis and make test report as per ISO 9001
  - Maintain lab stock and calibration of lab equipment as per requirement/schedule
4. Rubamin Limited:
  - Solvent extraction and leaching activity on lab and pilot scale for cobalt, manganese oxide and nickel sulfate.
  - Plant monitoring
  - Analysis of raw material (sulfuric acid, hydrochloric acid, caustic soda lye and ore), finished product (metal of cobalt, copper, nickel, sulfate of cobalt, copper, nickel and Zinc and Active Zinc Oxide), waste water analysis and make test report as per ISO 9001
  - Maintain lab stock and calibration of lab equipment as per requirement/schedule

<b>References:</b>
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1. Dr. Arti Mam (Faculty of Science-GSFC University) Mobile:- +919898593264
2. Dr. Samlani Sir (Faculty of Science-M.S. University) Mobile: +918128884444

<b>Declaration:</b>
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I hereby declare that the information furnished above is true to the best of my knowledge.

Signature:

Date: