**Name: Chandra Rekha Kuruganti**

**Qualifications:** [M.Sc. (Chemistry) from **IIT- Madras**]

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[Management course from **IIM- Kozhikode**]

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[**CSIR** qualified]

**Experience:** From IIT and IIM with 17+ Years in Manufacturing and Chemicals (R&D, Production and Quality, Scale up, Technology transfer, Formulations, Method development, Validation)



**Contact information:**

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**Achievements:**

* Qualified in CSIR-UGC (NET) as CSIR-JRF IN 1999 December, 2000 June, 2001 December and as L.S.in 1999 June.
* Got selection as Junior Works Manager (Gazetted) by Union Public Service Commission in 2002.
* Trained by Central Fuel Research Institute, Dhanbad
* Trained by Indian Institute of Petroleum, Dehradun
* Trained by Indian Red Cross Society
* Trained by IIM- Kozhikode in Business and General Management



**Soft Skills:**

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| * Positive attitude * Problem Solving * Work ethics * High Performance * Team work * Fast learner * Mentoring * Cost reduction * Honesty * Hardworking | * Loyalty to the company * Motivating the team * Timely completion of projects * Dedication to work * Consistency * Innovative * Flexible and Adoptive * Authentic and Responsible * Learning attitude * Customer focused |

**Profile Summary:**

**Key Skills/ Core competencies:**

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| \* Maintaining global standards and Quality in work  \* Research and Development related to different parameters  \* Zero failures in R&D and Manufacturing  \* Zero accidents in manufacturing and production  \* Safety  \* Bulk production with Zero failures  \* Customer problem solving  \* Literature search and retrieving information from journals and patents  \* Environmental Management  \* Pollution related studies  \* Waste management  \* Effluent treatment  \* MSDS  \* COA  \* Low temperature reactions  \* High Vacuum techniques  \* Moisture sensitive reactions  \* Developing new methods for Spectrophotometric determination  \* Shelf-life studies  \* Stability studies  \* Instruments testing and calibration  \* Successfully developed more than 100 new Technologies  \* Resins  \* Manufacturing  \* Designing experiments | \* Field test methods development as per the market demands and customer needs  \* Test kits  \* Chemical detection methods development for different fields like online analysis, Spectrophotometers, Hand held meters  \* Scale up from R&D to Production  \* Formulation Development  \* Designing Quality Standards  \* QC testing  \* Technology Transfer  \* Working with Reactors  \* Chemicals  \* Synthesis  \* Method Validation  \* Production  \* Chromatography  \* Catalysis  \* Batteries  \* Fertilisers  \* Polymers  \* Corrosion analysis  \* Boiler water  \* Power Generation  \* Steam water analysis  \* Water treatment  \* Water testing  \* Handling of Hazardous chemicals and Toxic chemicals  \* Handling of Air sensitive and Moisture sensitive chemicals |
| \* Cost estimation  \* Marketing Management  \* Strategic Management  \* Value Innovation  \* Creating new markets  \* Inventory Management  \* Supply chain Management  \* Cost Management  \* Cost reduction  \* Audits  \* Tenders  \* Problem solving  \* Innovation | \* Budgeting  \* Economics  \* Corporate Finance  \* Compliance  \* Strategic Management  \* International Business  \* Commitment to work and timeliness  \* Fast adaptation of the skills to market.  \* Good experience in Start-ups  \* Statistics  \* Data Analysis |



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| **Work Experience:**  **Total work experience: 17 years 3 months**    **Tintometer India Private Ltd**  **Head of the Department, Chemistry**  Dec 2014 to Feb 2022 (7 Years 3 months)   * Successfully established the lab from the scratch and did the R&D as per market requirement and scaled up to production and did the bulk production successfully with zero failures in QC and also zero accidents, * Manufacturing reagents for different industries, Safety, Zero accidents, scale up from R&D to production, Quality, Good knowledge of literature search and retrieving information from journals and patents, and designing experiments, product development, new polynomials development for spectrophotometers, * Customer problem solving, * Organic synthesis, Reagents for water analysis, Customer focused R&D on new market areas, * Field test kit development, Developing new Methods for Spectrophotometers, developing new formulations and its Validation, COA preparation, MSDS preparation, quality designing, Shelf- life and stability studies, testing instruments, * Scale up to production, tenders technical evaluation, Developing new methods/ reagents/ formulations on par with global standard, * Cost reduction, Purchase of raw materials, Compliance, Business growth, Creating new Markets. * Developed new methods and test kits as per BIS and APHA for the analysis of Fluoride, Chloride, Silica, Zinc, Manganese, Dissolved Oxygen, BOD, COD, Dissolved oxygen, Copper, Chromium, Phosphate, Hardness, Alkalinity, Iron, Free Residual Chlorine, Hydrazine, DEHA, Sulphate, Sulfite, Nitrate, Nitrite, Ammonia, Ammonium, Boron, Arsenic, pH, Buffers, various Standard solutions, Conductivity standard, Total Dissolved solids, Turbidity, Aquaculture, Drinking water, effluent water etc. * Handling and testing of Hazardous and Air sensitive chemicals.   **Nagarjuna - Shubhotech Pvt. Ltd.**  **Assistant Manager**  Apr 2014 to Jul 2014 (3 months)  Separation of bound water and oil recovery from oily sludge  **Itrace nano tech pvt. Ltd.**  **Research Associate**  May 2013 to Jan 2014 (8 months)  Established the lab from the beginning and did the R&D successfully and developed innovative technology as per the project requirements, Column Chromatography, Synthesis, Technology development for producing fertilisers like potassium sulphate from seawater.  **HBL Power systems Ltd., Hyderabad**  **Senior Engineer**  Sep 2008 to Feb 2011 (2 years 5 months)  R&D in batteries, production, technology transfer  **National Thermal Power Corporation Ltd.**  **Senior Assistant Chemist**  May 2002 to Aug 2007 (5 years 3 months)  Ion Exchange Chromatography, Resins, Operation of Water Treatment Plant and Power plant, Boilers, Hydrogen Purity, Effluent Treatment Plant, Liquid waste Treatment Plant, R&D, Production, Water Analysis, Corrosion Analysis, Pollution studies, Environmental Audits, Environmental monitoring, Water consent, Air consent, Stack emission control, Ambient air quality monitoring, effluent gas emissions control, pollution checkups.  **National Chemical laboratory, Pune**  **CSIR-JRF**  May 2001 to May 2002 (1 year)  R&D in Polymer synthesis in Anionic and Free Radical polymerisations, High vaccum handling techniques.  **IT Skills:**   * **C, C++, MATLAB, Fortran 77, SQL**   **Instruments Handled:**   * High Vaccum techniques, Monometer units, Handled various analytical instruments, photometers, AAS, GC, Turbidymeter, Flame Photometer, UV-Vis Spectrophotometer, Photometer, Comparator, PH and Conductivity meters, TDS meters, Salinity meters, Dissolved Oxygen meters, BOD instruments, HPLC, GC-MS, FTIR, Bomb Calorimeter, Karl-Fischer Moisture analyzer, ORSAT Apparatus, Viscometer, Chromatographic Columns, Ion Analysers, Reactors, Autoclaves, Glove Box. |

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| **Academic Qualifications:**  **2022-23**:  General Management Course (eMDP – GMP) from IIM- Kozhikode  **2001**:  M.Sc. (Chemistry) from IIT Madras  with 75.1%  **1998**:  M.Sc. (Nuclear Chemistry) from Andhra University Campus College  with 67.6%  **1996**:  B.Sc. (Mathematics, Physics, Chemistry) from Acharya Nagarjuna University with 84.1%  **Cleared all the subjects in First Attempt with Distinction in all the academics.**  **Projects completed successfully:**   * **Field test kits and Test strips development**   Tintometer (Onsite)  Mar 2020 to Sep 2021 (Full Time)   * Development of various spectrophotometer methods * Field test kits in water analysis for various parameters as per BIS and APHA standards. * Development of Arsenic test kit and its test strips development, * Fluoride testing, * And so many parameters testing kits and methods development with zero failures and global standards with less cost in very less time, * Online analysis methods. * **Fertiliser extraction from sea water**   Itrace Nanotech (Onsite)  May 2013 to Jan 2014 (Full Time)  Extracting fertilisers from sea water using ion exchange chromatography   * **Secondary batteries**   HBL Power systems (Onsite)  Sep 2008 to Feb 2011 (Full Time)  R&D in new secondary batteries development   * **Fuel cells**   NTPC (Onsite)  May 2004 to Sep 2005 (Full Time)  Fuel Cells Technology for energy generation   * **Reverse Osmosis**   NTPC (Onsite)  Dec 2002 to Apr 2003 (Full Time)  Reverse Osmosis for water purification   * **Hetereogeneous catalysis**   Indian Institute of Technology Madras (IITM) (Onsite)  Jul 2000 to Mar 2001 (Full Time)   * Heterogeneous Catalysis using mesoporous materials * **Periodic table- a conceptual framework**   Indian Institute of Technology Madras (IITM) (Onsite)  2012 to Mar 2013 (published in IITM Catalysis online database library)   * **Invention and synthesis of poly end functional polymers and initiators**   National Chemical Laboratory (CSIR NCL) (Onsite)  Jun 2001 to May 2002 (Full Time)  Invention and synthesis of poly end functional monomers and polymers |

**Personal Details:**

Date of Birth: 06- June- 1976

Permanent Address: Sainik Nagar, Ramakrishna Puram, Malkajgiri, Hyderabad- 500056.

Gender: Female

Marital Status: Married

Hometown: Repalle

Preferred work location: Hyderabad/Secunderabad

