

# PRASAD RAO .D

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**Objective:** To become a significant contributor to an organization that provides challenging and professional environment in the area of **Plant Maintenance & Projects** . To utilize my expertise and demonstrate timely projects Completion with cost effectiveness .

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## **Core Competence :-**

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|------------------------|----------------------------|----------------------|
| * Project Management   | * Value engineering        | * 5 S Implementation |
| * Inventory Management | * Operational improvements | * Energy Management  |
| * Planning Management  | * Project Execution        | * Team Management    |
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## **Executive Synopsis:-**

- Proven track record in Pharma Projects for full life cycle Planning, Execution , Pre-Commissioning and Commissioning .
- Executed Green field / Brown field / Capital Investment Facilities & revival of ageing plant as per ICH Q7 guidelines and driving the project team.
- Excellent Technical background for having expertise in cost effective technologies.
- Co-ordination with external consultants for design, development, of Engineering Layouts, Plans, Process layouts, P& Id drawings, Piping layout etc .
- Tracking the project to complement within the timelines, Budget, Manpower , Procurement timelines , etc
- Played a key role in setting up CRAMS unit dealing the custom requirement, and HPAPI( High potency API's) Requirements .
- Proven record for Plant designs, construction Management , EHS policies, and Risk Management during Construction .
- Significant contribution in the implementation of Operation excellence/ Lean Management With Mckinsey .
- Cost reduction through energy conservation and water conservation.
- Documentation **URS , DQ,IQ,OQ, PQ** as per the GMP norms .
- Project review meetings on periodical basis both internal and external customers
- Some of the projects Handled Kilo Lab / Pilot Plant / Production block , Utilities , Boiler , ETP , Ro Plant , Water treatment , Warehouse Facility, Solvent recovery Columns etc .

## **STRENGTHS:**

- Achieving Timely targets as per the Management Commitment.
- Leadership and Teamwork.
- Good Communication skills.
- Positive Attitude.
- SAP end user .

**Career Summary:**

<b>Position Held</b>	<b>Company</b>	<b>Years of experience</b>	
Vice President – Projects & Engineering	NOVOPOR CHEMICALS	4	Nov-2020 to Nov-24
AVP – Engg & Projects	Hetero Labs	3.6	May-17 to Nov-2020
Head-Projects & Procurement	YKM Projects	5	Jan-12 to April-17
DGM	Jubilant Life Sciences	3.9	Mar-08 to Jan-12
Manager	DR. Reddy Laboratories	7.0	Oct 2000 to Sep 07
Sr.Maintenance Engineer	Max Pharma	2.0	Nov 98 to Oct 2000
Maint Engineer	Voltas Chemicals	4.0	July 94 to May 98
Sr.Maintenance Engineer	Krebs Bio Chemicals	1.0	Aug 93 to July 94
Maintenance Engineer	Aarkay Industries	4.0	Oct 89 to Aug 93
<b>Total years of experience</b>		<b>33</b>	

**BRIEF DESCRIPTION ABOUT MY EXPERIENCE****PROJECTS:- .**

- Estimation of feasibility of the project and preparing project proposals, cost estimation and material selection.
- Projects handled from 3 crores to 150 crores
- Freezing of specification for all Pharma & Utility equipment's.
- Understanding Financial and commercial aspects of the company and planning accordingly.
- Man management to get the work done in smooth flow, Leadership skills, Conceptual and logical thinking in decision making.
- Application of pert and cpm for the project activities.  
Bid evaluation as per technical specs and co-relating the cost and finalizing the order.
- Preparing layout plans for the equipment and its related routing of pipelines.
- Preparing pre-commissioning check list for the equipment and proper documentation of test report certificates.
- Building Production plants as per USFDA norms.
- Forecasting of annual revenue and capital budget and preparing schedules.
- Selecting Insulation based on the service, and ducts for clean rooms .
- Preparing SOP's ( standard operating procedures) for various equipment's.
- Maintaining liaison with external parties and interacting with supplier and contractor.
- Participation in ISO-9001 implementation and its implementation in the department.
- Preparing specification for Utility and Mechanical Rotary and stationary equipment.
- Preparation of stage wise inspections and preparing QAP(Quality Assurance planning ) .
- Erection, Pre-commissioning & commissioning of equipment's
- Exposure to computer environment such as Primavera, SAP r/3 (abap/4), MS-office .

### **Contractor management ( Civil , Mechanical , Electrical , Insulation etc ) :**

- Insulation works both for the plant equipment and utilities equipment as per the specifications IS-14164 .( Fiber glass wool, Mineral wool, Rock wool, Thermo coal/Puff For hot & cold insulations with various densities', thickness & thermal conductivity.).
- Contractors Management for work Execution and Commissioning .
- Fabrication contractors management with GMP standards in Quality work.
- Civill drawings , Layouts , Steel drawings , PCC/ RCC works with CC Roads etc,

### **Quality Assurance:**

- Developed & implemented equipment qualification protocols for any changes made for the Equipment as per the change control procedure.
- Developed & implemented equipment qualification procedure for plant equipment as well as utilities equipment. (URS, Design, Installation, Operational & Performance Qualifications)
- Developed & implemented clean room validation protocols & compilation of reports.
- Handled the external/ customer & regulatory audits efficiently without any compliance.(*ISO, US FDA, GSK, TGA,WHO,MHRA*, Internal QA, Corporate.

### **BOILERS & Power Plant :**

- Operation and Maintenance of . AFBC Boilers of 45 TPH Capacity with working Pressure of 65 kg/cm<sup>2</sup>, and working temperature of 485°C. (Thermax Make)
- Erection and Commissioning of 5 Mw power plant ( Thermax ) with Boiler 45 TPH with working pressure of 67 Kg/cm<sup>2</sup>.
- Operation and maintenance of Steam Turbines of 6.5MW capacity (Extraction cum Condensate type and Back pressure turbine –Siemens and Alstom Make)
- Operation and maintenance of 100 TPH Coal handling plant, Ash handling, 45 M<sup>3</sup>/Hr RO plant.
- Desalination water plant of 5 MLD operation and maintenance .
- Worked on both fire tube and water tube boilers of both oil fired and coal fired up to 10 ton/hr capacity.
- Bag filters erection and commissioning in the flue gases for minimizing air pollution.
- Interacting with govt. officials for statutory consent.
- Efficiency calculation of boiler as per bs-845.

### **HVAC AND AIR –CONDITIONING:-**

- Erection and commissioning of centrifugal chillers , screw compressors, reciprocating compressors of various capacity from 150 tr to 600 tr.
- Brine plants -40 deg cent to – 5 deg cent with Single Fluid heating System ( SFU)
- Commissioning and Maintaining HVAC systems for the clean rooms , and for the building applications are concern.
- Trouble shooting and indenting for the critical spares.
- Ensured approved vendors pool is available for upcoming projects & and Key Raw material supplies.
- Worked closely Production planner and Capital item procurement planner for zero stock outs and timely project completion.
- Devised suitable control mechanisms for prices of Raw materials and Capital items.
- Responsible for reviewing Technical & Engineering Specifications, Equipment Datasheets, PIDs, Equipment & Piping Layouts, Equipment's Inspection & Test Plans,
- Piping Line lists, Isometrics, Support drawings etc for detailed engineering phase of the Project.
- Responsible for review of Tender documents, Procurement specifications, Commissioning, Capital & 2-years Spare parts lists, Technical calculations as necessary, for equipment & piping. Supervision of the Construction, Pre-commissioning and commissioning activities of Mechanical

Equipment's (Rotating & Static Equipment's), Ancillaries and Piping.

Review of Construction HSE requirements, Heavy Lift Plans, Task Risk Assessments and approvals.

Project Progress monitoring and initiate necessary actions to meet the project completion schedules.

- Project scale up of KG lab , Pilot Plant , Clean Rooms , HVAC , API Production blocks , ETP , Desalination Plants etc .
- Projects Executed from 20 cr to appx. Rs.200 crores .
- Purified water system (RO with EDI), HVAC system for Pharma clean room, Fire hydrant system.
- New Boiler, Clean Room , , Turbo Dryer, wood storage yard, Outer ring road, MEE, storage tanks, Hastelloy , GLR and SS Reactors erection, Dist. & Solvent recovery column,PTS , Micronizer , New Powder Processing Area for Spray Dryer etc
- AHU Predictive & Preventive maintenance meeting as per Sop.
- Commissioning of cascade system of capacity 45 tr at temp -40 deg centigrade.
- \* Performance evaluation of each system and its preventive maintenance schedules of Cassettes ,Ductable and split a.c 's.

**ELECTRICAL & Generators :-** Protection system include Microprocessor based relay, Numerical relay.

- Troubleshoots plant electrical problems to determine their cause and recommends options for eliminating such problems. Includes carrying out tests on equipment.
- Capable of guiding/leading the electrical maintenance team and implementing the best maintenance strategy for the plant including High voltage of 11/33 KV.
- Condition Monitoring and Predictive maintenance of critical equipment and corrective actions to avoid breakdown.
- Planning for resources and manpower for planned shutdown of the plant and execution including start-up.
- Daily Power monitoring, calculations and reporting at monthly basis
- Experience in 2500 kva & 1250 kva oltc transformers.
- Familiar with capacity controllers & invertors.
- Familiar with PLC logics & panel board problems.
- Erection and commissioning of 1250 kva generators of Cummins & caterpillar make.
- Attended major problems like dilution of diesel in lube oil, and cam shaft worn out.
- Aware of 'B' & "C " check and participated in 'D' check with Cummins people.
- Efficiency calculation of generator.

**Utility Equipment :-**

- Erection and commissioning of DM water plant of capacity 100 kl. And Millipore HUF system of capacity 6 kl/hr .
- Desalination RO plants of 4 kld
- Potable & Purified RO water system meeting the WHO standards .
- RO plant for effluent water and Multiple effect evaporator for the treatment of plant waste water has been commissioned.
- Familiar with softeners ,activated carbon filters, sand filters, flocculators, tube settlers, ultra violet disinfectors.
- Familiar with Water std parameters as per usp-24,IS-10500.
- 500 nm<sup>3</sup>/hr Nitrogen Plant with 99.95% purity.
- Validation of HVAC and compressed Air, and Nitrogen Generators.
- Familiar with air compressor of capacity 1000 cfm and 1200 cfm .

- Cooling towers of capacity 2800 TR/Hr. with in built TDS filter plants

### **PHARMA EQUIPMENT:-**

- Execution, commissioning & maintenance of GL Reactors, SS Reactors capacity ranging from 0.2 kL to 35 KL.
- Hands on experience on various types of Centrifugal, Reciprocating/positive displacement pumps, Water/oil ring vacuum pumps, Dry Vacuum pumps steam/water ejector pumps, High pressure pumps. AOD pumps etc.
- Operation & maintenance of various types of centrifuges ( Bag lifting, Top discharge, SS/Rubber/Haler lined, comiconder, 3 point/4 point suspension, Dynamic/Eddie current breaking )
- Erection & commissioning of Agitated Nutch filters of capacities from 3.0- 15.0 KL.
- Operation & maintenance of Plate filters of capacity from 24" to 48".
- Maintenance of cooling towers of capacity from 80 Tr to 2400 Tr
- Erection, commissioning & maintenance of Various types of driers( Tray Driers, Fluid bed driers, Vacuum cone driers & Nauta Driers & Agitated Nutch filter drier)
- Hands on experience of clean room equipment's (Sifters, Millers, Double cone Blenders, co-mills, Roll compactors, Micronizer's, bagging system & Air jet mills.
- Operation & maintenance of equipments in solvent recovery systems (Agitated Thin film Driers, Agitated thin Film Evaporators.)
- Operation & maintenance of material handling equipments ( Hoists, Hydraulic masts)
- Familiar with Roll compactor , granulator and Octagonal blender.
- Fluid jet mill , Micronizers , Powder transferring systems

### **ENERGY CONSERVATION:-**

- Implementation of condensate recovery from the plant & distillation units.
- Implementation of cooling tower fan switching off when the temp reaches.
- Implementation of boiler fuel air ratio with fuel analyzer .
- Implementation of primary pump elimination and using the plant return to the chiller.
- Submitted various energy schemes to the management regarding waste water, solar feed water, pressure pump for steam condensate.

### **EFFLUENT TREATMENT PLANTS:**

- Erection and commissioning of m/s Thermax effluent treatment plant of capacity 70 m<sup>3</sup>/hr.
- Erection and commissioning of triple effect evaporation system of capacity 1.5 kl /hr.
- Familiar with liquid and solid incinerator plants.
- Commissioning forced evaporation system such as convap system(Alfalaval).

### **MAINTENANCE ACTIVITIES:**

- \* Predictive , Preventive & Break down maintenance & its schedules monitoring.
- Failure investigation and Gap analysis. Fish Bone analysis
- Implementation of ISO-9001
- Inventory management. Yearly Finance planning for engg activities .
- Implementation of safety as per safety rules.
- Maintenance planning lubrication schedule of all the plant equipment .
- Impart technical skills to work force for safe & effective maintenance.
- Handled the annual shut down of chemical plant including job planning and scheduling ,spares availability .
- Preparing sop's for new equipment as per design criteria and implementation of the sop's. Effectively exposed to Audits like ISO-9001, WHO ,TGA,USFDA and Russian audits .

**National Awards :-**

Energy efficient award for 3 years continuously from CII (Confederation Indian industry)

**RECENT MAJOR PROJECTS:-**

- 1) Green field prod facilities with 3 production blocks including Hastelloy reactor of 200KL volume & Utilities equipment. Total project value Rs. 125 Cr in FY2020-21
- 2) A green filed project consists of 320 KL volume API intermediates manufacturing production blocks, solvent recovery plant, complete utilities and warehouse for solid raw materials, 5 mw Cogeneration plant , 300 KLD ZLD plant, 33KV substation as one project in one location. Value of the project INR 120 Crore, Completed in the year 2022
- 3) A green filed Petrochemical project consists Bal shredder , Dissolution vessel , Coagulation vessel , Degasser vessel with Nash vacuum pump , chocolate pump , 200 nm<sup>3</sup>/hr Nitrogen plant etc . Value of the project INR 50 Crore. DCS Plant with all automation operations .
- 4) Green field project of Co-generation plant with 5 mw power generation by back pressure Turbine and 42 tons of steam generation to production block
- 5) A Green field project operated through DCS of API manufacturing facility with intermediate of capacity 150 TPA, API finished product manufacturing facility of multi product production in clean room with rooms conditions of ISO8, 23+5 Deg C and below 40% RH with capacity of 60TPA. A dedicated solvent recovery system, QC lab, standalone utilities, Warehouse, Effluent evaporation system consists of stripper, MEE and ATFD.

**TRAINING PROGRAMMES ATTENDED:-**

1. INTRODUCTION OF CATERPILLAR ENGINE BY GMMCO.
2. YOU ARE THE KEY BY MAX INDIA LTD.
3. HAZOP STUDY BY PROLIANZ CONSULTANTS.
4. STATISTICAL QUALITY CONTROL BY ISI . BANGALORE.
5. ENERGY CONSERVATION ON BOILERS & Steam Management

**PERSONAL DETAILS**

**Name** : **D.Prasad Rao**  
**Father name** : Late D. Srinivasulu  
**Date of birth** : 12-02-1966  
**Contact address** : D.Prasad Rao,  
3-6- V/45, Plot no -45,  
Vivekananda nagar Colony  
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**Contact phone no** : 9866308106  
**Permanent address** : 6/480 , geenigala street, Nellore -524002  
**Martial status** : Married  
**Languages known** : English , Hindi, Telugu, Kannada  
**Educational qualification :**

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<b>Exam passed</b>	<b>Name of the University/board</b>	<b>Year of passing</b>
<b>MBA- Finance</b>	<b>University of Madras</b>	<b>2009-11</b>
<b>P.G. DIPLOMA. IN MATERIALS MGMNT.</b>	<b>ANNAMALAI UNIVERSITY</b>	<b>1997-98</b>
<b>B.E (Mechanical )</b>	<b>Mysore university</b>	<b>1985-89</b>

Passport : X8746835  
Valid upto : 30 th April 2033.