

# Rajnath

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## PROFILE SUMMARY

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"Results-driven Mechanical Engineer with **3 years** of experience in operation, maintenance, and troubleshooting of hydro power plant mechanical systems. Proven expertise in managing turbines, generators, gates, valves, cooling systems, and auxiliary equipment to ensure peak plant performance and reliability. Skilled in preventive and predictive maintenance planning, root cause analysis, and cost-effective repair strategies. Adept at coordinating multidisciplinary teams, ensuring compliance with safety and environmental regulations, and implementing process improvements to maximize efficiency and minimize downtime. Strong leadership, problem-solving, and technical documentation skills, with a commitment to operational excellence in renewable energy generation."

## EDUCATION

### GCRG Group of Institute

*B. Tech Mechanical Engineer* | 6.17 CGPA

Lucknow, India

(2022)

### DDCNP Polytechnic College

*DIPLOMA (ME)* | 72.00%

Basi, India

(2019)

### National Inter College

*UP Board (10<sup>th</sup>)* | 81.33%

Uttar Pradesh, India

(2016)

## SKILLS

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### Technical Skills:

- Operation & maintenance of hydro turbines, generators, and auxiliary systems
- Gear Box mantle and dismantle
- Mechanical system troubleshooting & fault diagnosis, Human Power
- Mechanical drawing interpretation & technical documentation
- Vibration analysis & condition monitoring
- Hydraulic gates, penstock, valves & cooling systems maintenance

### Operational & Management Skills:

- Maintenance scheduling & resource allocation
- Safety procedures & compliance with environmental regulations
- Team leadership & training of maintenance staff
- Contractor/vendor coordination & supervision

### Soft Skills:

- Good Communication
- Problem-Solving & Decision-Making
- Adaptability in High-Pressure Environments
- Conflict Resolution & Negotiation Skills
- Time Management & Prioritization

## Work Experience

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### Usha Engineer | Vadodara, Gujrat

#### 1. Mechanical In-Charge □ Hydro Power Plant (Jan 2023 □ Present)

- Lead mechanical operation & maintenance of [capacity] MW hydro power plant, ensuring optimal performance and reliability.
- Supervise installation, inspection, and repair of turbines, generators, hydraulic gates, valves, penstock, and auxiliary systems.
- Plan and execute preventive & predictive maintenance schedules to minimize breakdowns and extend equipment life.
- Train and mentor junior engineers and technicians in safety protocols, troubleshooting, and best maintenance practices.
- Assisted in operation & maintenance of hydro mechanical systems, including turbine overhauling and vibration analysis.
- Oversee spare parts inventory, vendor negotiations, and procurement to control maintenance costs.

## PERSONAL DETAILS

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- Current Location: Vadodara, Gujrat
- Date of Birth: 04/03/2001
- Language Known: English, Hindi
- Hobbies: Cooking, Reading, Travelling