Bharat Singh

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**Seeking assignments for Suitable Position in- Electrical Maintenance.**

**PROFESSIONAL SYNOPSIS**

A dynamic professional with over **10+** years of rich experience in planning, Plant Operations, Maintenance & shift breakdowns handling. **Presently associated with Aluminium Bahrain ALBA, Manama, Bahrain.** Proficiency in managing shift breakdowns & maintenance of various equipments for reducing downtime and enhancing operational effectiveness of equipment.

**JOB SKILL**

**Maintenance:**

Hands-on experience in various Electrical maintenance and troubleshooting Activity, Scheduling and planning predictive, preventive and breakdown maintenance jobs with key focus on spares availability and root cause analysis.

**Technical competencies:**

* **PLC:**
* Maintenance & Troubleshooting in PLC using different RSlogix Software environment like RSlogix 5000, RSlinx Classic, and BootTP/DHCP. Carried out the troubleshooting by using the RS logic 5000.
* Maintenance & Troubleshooting of different Communication protocols like Ethernet, Devicenet. Worked on different communication device like Startix Switch’s, Wi-Fi hotspot & Remote Control.
* Different communication protocols including Ethernet & Device net.
* **AC Drives:**
  + Trouble shooting & maintenance of powerflex-70, 700, PF755 AC Drives. And different make AC drives like DanFoss, ABB & YOKOGWA.
* **PTA/OH CRANE/TG/RG Maintenance:**

Locating & analysing various faults in the control & power circuit, automation & instrumentation of

* Pot tending assemblies, PTA, PTM. (Robotic assembly used for various operation of Aluminium POT).
* Overhead cranes.
* Transfer gantry.
* Raising girder and Retractable bumpers.
* Doing multipurpose activities in pot operation of smelter.
* Identifying & elimination of insulation fault between different potentials & power fault in PTM.
* Remote control system.
* **Motor maintenance:**
* Trouble shooting & maintenance of Low Voltage AC motors & DC motors.
* Dismantling, overhauling, bearing replacement & assembling of 415low voltage & 6.6KV & 11KV High voltage AC motors.
* **Pot Equipment Maintenance:**

Trouble shooting of various faults of related to.

* Pot electrical like voltage fluctuations, Anode jack motors, Anode lamps.
* Dual pot micro like wire fault, chisel bath contact, FCN faults, OD fault.
* CAFD, ATFD.
* Titter machine.
* Anode Beam Raising Machine.
* Alf3 hopper, Metal ladle lifting beam, Bath ladle lifting beam.
* Earthing Trolley required for mid-point earthing etc.
* **Gas treatment Centre (GTC,FTC) Maintenance:**

Trouble shooting of rectification of various faults. Related to Electrical, Automation & Instrument.

* Alumina make actuator.
* Day Roof bin & DE dusting system.
* Alumina conveying system.
* Level Measuring Instruments, Level switches.
* Bath conveying system.
* Alf3 unloading system.
* Inlet duct gas cooling system.
* 11kv, 6.6kv fan motors & its oil station.
* Control Valve, MOV, MCV.
* **HT & LT Substation Maintenance:**
* 11KV & 3.3KV Areva (Alstom) Make MV Switchgear having feeders for Transformers, Motors, Bus couplers.
* 415V PMCC Boards comprises of Motor, Heaters, Outgoing feeders to MCC, its Control transformers etc.
* Protection Relays Setting, Testing and configuration (Micom-P220, P225, P127, P413, P632, P120).
* Testing of CT’s, VCB’s (IR, WR, Ratio, Knee point voltage, Polarity Tests)
* Testing of CT’s, PT's and Breakers of MV & LV switch gear.
* Carried out Interconnection Cabling, Bus wiring & DCS cabling as per cable schedule for Incomers, Transformers, Motors, BC & Tie feeders. Conducted HI-POT Tests for Bus bars and Cables.
* Scheme Checking for 11KV, 3.3KV & LT Feeders such as Incomers, Tie, Motors, Transformers, Bus Coupler, Bus & Line PT’s.

**Project & Commissioning:**

* Pre Operational Verification & commissioning ECL make PTM, NKMNOEL make Transfer Gantry, Raising beam, TMA.
* Installation & commissioning of Pot line electrical equipment’s like ATFD, CAFD, and Anode lamp. Level-1 ALPSYS system.
* Installation & commissioning of HT/LT switch gears.
* Supporting the pot start-up team as a start-up team member during the start-up of 180 pots in **Mahan** Aluminium green field project.

**Other Competencies**

**Break-down management:**

* Analysis of break-down trend and feed-back to maintenance member for break-down reduction.
* Verification of break-down analysis and counter-measure taken.
* Timely feed-back and technical support to equipment to reliability team to solve critical break-downs, repeated break-downs.

**Preventive maintenance:**

* To prepare preventive maintenance plan for every machine for efficient operation.
* To modify the preventive maintenance plan after break-down analysis.
* Assuring availability of resources for preventive maintenance activity.
* Guide, motivate and demonstrate the maintenance members for improving the preventive maintenance activity.

**Behavioural Competencies**

* Initiative and drive, Safety conscious (Sharing Single Point lessons, Toolbox talks, safety talks & Suggestions).
* Have good driving Skills and have Indian Driving license and Bahrain Driving (GCC) license.
* Inter-personal skills. (Book Reading, Bike Raiding )
* Ability to handle pressure and deadlines.
* Well hands-on experience in 12h rotating Shift or 8h Shift,
* Strong learning ability.

**Achievement:**

* Successfully completed the commissioning of 180 prebaked pots of 360KA line current of AP technology in a span of just 10 months in **Mahan** Aluminium HINDALCO IND. LTD.
* Successfully completed the commissioning of 9 PTM Crane in span of just 12 months in **Mahan** Aluminium HINDALCO IND. LTD.

**OCCUPATIONAL CONTOUR**

Since **Dec’2018 to till now with Aluminium Bahrain, (ALBA) Bahrain Government Org, Juffair Bahrain. As** Lead Electrical Technician

Since **Dec’2015 to Nov 2018** with **Ma’aden Aluminium (Alcoa)** Al-Jubail industrial city, **Saudi Arabiya** (by AYTB). **As Lead Electrical Technician**

Since **May’2015** to **Nov’2015** with **Hindustan Electro Graphite** LTD (LNJ Bhilwara Group). Bhopal M.P India. As **Senior Engineer**

Since **July’2011** to **April 2015** with **Mahan Aluminium, HINDALCO Industries ltd** Singrauli M.P. India. As engineer

Since **July’2010** to **July 2011** with **Surya Roshani ltd** Gwalior M.P India. As Engineer

**Training & Certificates.**

* Attended programme on **Low Voltage Switchgear Maintenance** conducted by **Alstom switchgear**.
* Successfully completed the 7 days Practical course of Network **Ethernet IP/Startix Switch Configuration** and troubleshooting by **Rockwell Automation, Bahrain**.
* 7 Days **Studio 5000 Logix Designer, ControlLogix Fundamentals and Troubleshooting** Training by **Rockwell Automation, Bahrain**.
* 7 Days **Automation & Electrical training of The Pot Tending Assembly (PTA)**, Conducted by **ECL France**.
* **Automation & Electrical training of The Cathode Transport crane (CTC) and transfer gentry,** Conducted by **NKMNOEL Germany**.
* **Fundamentals of AC & DC Drives Course**, **Configuring & Starting-up a power flex drive course**, and Maintaining & Troubleshooting Power flex 70 & 700 AC Drives Course, conducted **by Rockwell Automation India**.
* Attended and successfully completed the course for Safety isolation officer (CMS1), Conducted by **ECL France**. And appointed as isolation officer for ECL supervision activities.
* Successfully completed the course of Operation and Maintenance of power electronics devices (for5X188MVA 100KA Rectifier substation).conducted by **ALSTOM-GRID Transmission and distribution**.
* Attended and successfully completed the course of Shaft alignment & vibration analysis.

**ACADEMIC CREDENTIALS**

2010 Diploma in Electrical Engineering (69%) from Indore by (RGPV Bhopal) MP India.

* Perusing AMIE in Electrical Engineering (Indian institute of engineers India) from Bahrain Chapter.
* Well conversant with MS office. (MS Word, Excel, Power Point).
* Well conversant with Oracle.

**PERSONAL MINUTAE**

Date of Birth & Place : 5th September 1992, Place of birth Delhi.

Permanent Address : 18/1 Gangbag colony, Nr Kushwaha Nagar, Indore (452015) MP, India.

Present Address : Manama, Kingdom of Bahrain (Valid Work Visa up to 2023).

Passport & Visa : L5142186. (Valid up to 2023) Open Ended Family Visa by Alba in Bahrain.

Marriage Status : Married.