# Narendra Chaudhry

B Eng (Electrical)
Grad Dip Management (IT)

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Statement addressing the selection criteria

# Project Manager, Electrical Operations

Position number: SME1137

**Extensive knowledge and experience in building-related electrical services including the provision of a quality service within this industry, and**
**Demonstrated extensive experience in the project management of a variety of complex electrical services projects from concept phase to conclusion.**

Fourteen years professional experience in utility management across all buildings at two large manufacturing complexes in India and eighteen months supervising voltage control equipment at Ngatamariki Geothermal Power Station.

- With Bharata's Chief Engineer, prepared and worked to an annual budget worth NZ$250,000 for spares and materials to be ready for preventative maintenance and breakdowns. When modifying the secondary electrical distribution system at Summit, I decided to explore the possibility of incorporating a damaged and disused 11KV cable buried deep underground. Engaged a company with route tracing and fault finding equipment to locate both the cable and the fault which was then repaired. Employed external contractor to complete this work and by so doing, saved lengthy downtime and about $25,000 in costs.
- In another project at Summit, we installed two new 800A 11KV breakers with isolators and three 11KV changeover switches and other accessories. Prior to making the order through our SAP system, I obtained several quotes, prepare comparison report in terms of cost, technical aspects and compliance to the Indian Standards code. Having decided on a supplier, I followed up to ensure that we would get the materials on time and organised teams of contractors to be ready to install the equipment as soon as it arrived. I checked the equipment as it arrived, including documentation, and made regular inspections during the installation so as to be able to present reports to senior management throughout the project. As a result, the breakers were properly installed on time and within budget.
- At Summit, there were some breakers that were almost 50 years old and providing virtually no protection. It was obvious that they needed to be replaced but I needed to

convince suppliers that we required modern breakers that would, nevertheless, fit into our existing system with minimal modification. Because of my clear explanation of our requirements, I was able to obtain breakers that met our specifications. As a result, downtime was minimal and there was no production loss.

At the Ngatamariki Geothermal Power Station project, I was one of a team of four electrical engineers supervising the installation and testing of SVC reactive voltage control equipment.

Achieved PMI Certification through PMINZ, Christchurch, last year.

**Strong work ethic, self-driven to meet/exceed objectives·**

My professional experience demonstrates my strong work ethic and my self-driven commitment to meeting and exceeding objectives. My success as an engineer has been largely the result of my determination to play my part in helping the organisation achieve its corporate goals.

- For example, at Bharata Textile Mills I was responsible for the maintenance of all electrical plant and equipment at the spinning mill. I was overseeing the routine maintenance of the humidity control plant when we discovered that one bearing was badly worn and this had damaged the shaft sufficiently to call for its replacement.

  Humidity control is essential to maintaining the quality of the yarn being produced. Routine maintenance would normally take about four hours and humidity would be unlikely to vary sufficiently in that time to affect quality. However, to obtain a replacement shaft could take days and this would seriously impact on production.

  Thinking laterally, I considered the possibility of refurbishing the damaged shaft. I spoke first with the welders to determine the possibility of replacing the metal that had been worn away and second with the fitters to assess their ability to work the shaft on a lathe sufficiently to meet the specifications required. As both welders and fitters told me that this was possible, we repaired the shaft, replaced the bearings and had the humidity control plant running again within 14 hours, so reducing the impact on production to a minimum. I remained on site and supervised the whole process until it was completed and working properly. For this I received warm thanks from the President, Operations, who told me that if it hadn't been for my tenacity and commitment, the company could have suffered serious loss of production.

**Demonstrated verbal and written communication skills·**

My communication skills, both written and spoken, have been highly developed through my work at both Bharata and Summit Textile Mills. In both companies I wrote regular reports for management; I liaised continually with operations staff, with electrical engineers and trades people and with management; and I negotiated with, and supervised the work of, outside contractors.

At both companies I wrote monthly reports for the President, Operations, and Managing Director concerning the state of electrical plant and equipment as well as the consumption of grid electricity, diesel fuel, gas and water required for our own electricity generation. These reports were always well received.

- As part of an in-house professional development program at Summit, I wrote the report for our company's participation in the Six Sigma project. I presented the report in front of senior representatives from Motorola and our own senior TQM team. For this, my leader received the Black Belt award and I was given the Green Belt.

**Demonstrate**d **abilit**y **t**o **presen**t **compl**ex **ideas**, **concept**s **an**d **point**s **o**f **vie**w **i**n a **clear**, **concis**e **an**d **logica**l **manner**,

My ability to present complex ideas, concepts and points of view in a clear, concise and logical manner has been highly developed during the eight years I was Engineering Manager at Summit where I was responsible for electrical engineering services within the textile mills and within the office blocks both on site and in distant locations because it was my responsibility to engage the contractors required to carry out the work and to ensure that the work was carried out satisfactorily and to strict Indian standards.

Liaison was essential because all electrical engineering projects were undertaken in collaboration with the Chief Engineer and/or the General Manager. I also needed to work out the best dates for implementation with the President of Operations so as to minimise disruption to production.

All work had to be approved by various government authorities and this, too, required good liaison. I prepared contracts for both minor and major electrical engineering projects, ensuring that all instructions were clear and all materials and equipment ordered were properly defined so that contractors and suppliers knew exactly what was required.

- At Bharata, I coordinated the work of contracting companies and five suppliers when managing the project to install the two 800A11KV breakers. And while production was stopped for this project, we took the opportunity to undertake routine maintenance on our manufacturing plant, compressors, submersible pumps, humidification plant, effluent treatment equipment and all the other equipment required for the textile mill. This meant that I also coordinated the work of three engineers, 16 electricians and 15 other tradespersons, all working in shifts around the clock.

**Be reliable, responsible, dedicated, committed and fulfilling obligations**

Being reliable, responsible, dedicated, committed and fulfilling obligations has been an essential part of my success. These qualities have been demonstrated in the ways I have worked to improve efficiency and cut costs.

As an Engineering Officer at the Summit Mill, I worked in shifts. It sometimes occurred that a machine would breakdown shortly before my shift ended. Machinery breakdown affected

production badly so I made it my business to never leave until the machine was repaired and working properly again.

- At one time, there was a problem in the centralised waste collection, the system that clears waste away from the production machines so that they can continue to work efficiently. It was 11.00pm, an hour before the end of my shift, when the problem showed itself. I identified the cause as the bearings of the drum of the waste separator. I realised that it was necessary to replace the bearings as quickly as possible but that the job would take several hours. I also realised that it was important that the engineer who came on shift after me was free to attend to all the other machinery. With these realisations, I started in to do the job as quickly and efficiently as possible. I had the bearings changed and the machine operating again by 5.00am and, I left for home only after I had checked that everything was working properly.