

# Electrical & Instrumentation Project Engineer

**Mr. Abdelhamid KHIRENNAS**

Male, 33years – Married, One Child

**Address:** Quartier Sedrata, El-Atteuf, 47012, Ghardaïa Province, Algeria.

**E-mail :** ab.khirennas@gmail.com

**Mobile :** +213 (0) 555 11 86 26

Passport and Drive licence (Class **B**) valid

Released from any obligations



## EXPERIENCE

• **May 2013 to date:** Studies Engineer within the Engineering Department of **Shariket Kahraba wa Taket Moutadjadida “SKTM Spa”**, a subsidiary of the National Electricity and Gas Company "Sonelgaz" in charge of Power generation in Southern Algeria's Isolated Microgrids and Renewable Energies.

### Tasks :

- Feasibility studies and Front End Engineering Design «FEED»;
- Launching calls for tenders, evaluating bids, negotiating and setting up contracts and amendments in accordance with the applicable regulations;
- Participation in FAT (Factory Acceptance Test) and SAT (Site Acceptance Test) of several equipment: Diesel Gensets, 30 kV shelter substations, Power transformer, PV inverters, electrical & instrumentation cables, etc. ;
- On-site Works supervision ;
- 30 kV shelter Substations acquisition Project Manager: Technical, administrative and financial management of the contract and its closure: deadline management, invoicing, reporting, communication with the contractor and other parties, etc.

### Achieved projects:

- Construction of Diesel and Mobile Gas Turbines Power plants in the Southern Algeria's Isolated Microgrids ;
- Acquisition, Installation and Commissioning of Diesel Plant retrofitting equipment: Diesel Gensets, 30 kV Substations, LV Switchgear, etc.;
- Construction of Photovoltaic (PV) Power plants connected to the National Interconnected Grid and to the Southern Isolated Microgrids;
- Implementation of the 30 kV/60 kV transformation station for the evacuation of PV power plants ;
- Transfer of Mobile Gas Turbines from the National Interconnected Grid's Power Plants to those of the Southern Isolated Microgrids;

### Other responsibilities and achieved works atSKTM:

- Acting, for several periods, as Head of the Conventional Engineering Project structure: handling incoming mail, drawing up correspondence, preparing and leading the structure's meetings, attending interdepartmental meetings, etc.;
- Since 2015: Coordinator of the Development team in charge of the project financial estimation, specifications formulation, bid evaluation and contract implementation;
- Member of several committees within the company: Contracts Committee, Bid Opening Committee and Bid Evaluation Committee;
- Participation in the preparation of investment financing requirements in order to integrate them into the company's budget proposals;

- Member of the work team in charge of the development of the axes and opportunities of National Integration related to SKTM's activities;
- Representing SKTM at several fairs and events;
- Participation in the Sonelgaz Production Professions Conference organised by « le Centre de Recherche et de Développement de l'Electricité et du Gaz (CREDEG) », a Sonelgaz subsidiary, with an oral presentation entitled "Operating Program of Diesel and PV Power Generation means in Southern Algeria's Isolated Microgrids, April 2018;
- Sponsorship of students in Electrical Engineering, Automation and Electronics in Internship within SKTM.

• **January, 2012 to April 2013:** Quality Control Electrical Engineer at: **SNC-Lavalin, Algérie.**

**Project:** Gas Processing Facilities in Rhourde Nouss QH fields, Illizi, Algeria.

**Client:** The National Society for the Research, Production, Transport, Processing and Marketing of Hydrocarbons «Sonatrach».

**Tasks:**

- Conformity Control of electrical systems and equipment to the documents and specifications of the Project Engineering and to the applicable standards;
- Visual inspection, mechanical verification, isolation tests and dielectric tests using the appropriate instruments;
- Establishment of test reports and nonconformance reports (NCR), etc.;
- Inspection and signature with the Client of the Mechanical completion of different systems;
- Coordination with the other structures of the project (Construction and Engineering) for the correction and the completion of Punch lists items.

**Systems and equipment:**

Cathodic Protection, Grounding and lighting protection system, MV Switchgear, Emergency Generator Set, MCC Panels, Distribution Panels, UPS System, PSS (Power Supervision System), HVAC, F&G, Lighting, Heat tracing, etc.

• **April to December 2011:** Electrical Engineer at **AMIMER ENERGIE SPA**

**Projects:** Construction and Retrofitting of Diesel Power Plants in the Southern Algeria Isolated Microgrids: Talmine (Adrar Province), Idless (Tamanrasset Province).

**Client:** « la Société de Production d'Electricité (SPE) », a Sonelgaz subsidiary.

**Tasks :**

- Elaboration and submission to the Client, for approval, of Quality Control documents (Quality Control Plans, Test Procedures, etc.) relating to FAT, SAT, performance tests and legal tests with « la Direction de la Protection du Patrimoine » of the Ministry of Energy.
- Participation in the performance tests of Talmine's new Diesel power plant;
- On-site Works supervision on the Idless Power Plant site, preparation of project progress reports, participation in on-site technical meetings with the Client, etc.

## EDUCATION & DIPLOMAS

• **March, 2010:** Master's degree in Electrical Engineering from the Polytechnic Military School, Algiers, Algeria.

- Branch: Electrotechnical Systems,
- Option: Energy conditioning and Electric Drive

• **June, 2007:** State Engineer's degree from the Faculty of Hydrocarbons and Chemistry "Ex-INHC", University of Boumerdès, Algeria.

- Branch: Industrial processes Electrification, Option: Electromechanics, "First of Class"

• **June 2002:** Secondary School diploma, Branch Natural and Life Sciences, average: 14.78/20.

### IT SKILLS

Windows, MS Office: Word, Excel, PowerPoint, Outlook, MS Project	Good command
MATLAB/SIMULINK (scientific computing software)	Good command
AutoCAD	Good command
PVsyst (Software for PV solar systems design)	initiated

### LANGUAGES

Arabic	Fluent in listening, speaking, reading and writing
French	Fluent in listening, speaking, reading and writing
English	Intermediate level "B2" (Level of CEFR)

### ADDITIONAL COURSES

• **January 2014 – September 2015 :** Accompaniment period within « la Direction de l'Engineering des Moyens de Production de la Compagnie de l'Engineering de l'Electricité et du Gaz« CEEG », a Sonelgaz subsidiary, for the appropriation of the power plants construction's project management activities.

• **16-27 June 2019:** Upgrading Training on « Electrical Diagrams and Piping & Instrumentation Diagrams (P&ID) for Power Plants» organized by « l'Institut de Formation en Electricité et Gaz (IFEG) », a Sonelgaz subsidiary.

• **07-18 October 2018:** Upgrading Training on « Electrical Safety» organized by « IFEG».

• **15-19 July 2018:** Participation in the Summer University on Smart Grids organized by the Algerian American Foundation "AAF" and the University of Batna 2.

• **01-05 April 2018:** Upgrading Training on «Contracts Management and Closure» organized by « IFEG».

• **16-20 April 2017:** Upgrading Training on «Leadership and People Management» organized by « IFEG».

• **27 November to 01<sup>st</sup> December 2016:** Upgrading Training on «Contracting Process» organized by « IFEG».

• **04-10 June 2016:** Training on «Project Management» held in China by the «Yingli Solar-Sinohydro-HydroChina» group as part of the Algeria PV power plants construction contract.

• **December 2015:** Training course on the Operation & Maintenance of ABB's 30-60/11.5 kV Mobile Substation organized by «ABB».

• **April, 2015:** Attendance of a seminar on «Project Ownership Assistance», organized by «EDF CIT (Centre d'Ingénierie Thermique)».

• **12-13 February 2014:** Training course on «Subcontracting in Private Contracts and Public

Procurement» organized by «UNIVERSAL SCHOOL» (a state-approved vocational training and education institution).

- **April to June 2007:** End-of-study internship at: «Sonatrach / Organisation Ourhoud / Champ / Dept. Maintenance / Service Electricité».

- **Achievement:** Practical knowledges of DCS (Distributed Control System) “YOKOGAWA”, PDC (Power Distribution & Control) system and GMAO (Gestion de la Maintenance Assistée par Ordinateur).

- **January, 2007:** Attendance of a seminar on «Construction of Electrical Machines», organized by «TOTAL Professeurs Associés».