

SGS PROJECT MANAGEMENT CONSULTANCY: WIND FARM IN INDIA

ISSUED – AUGUST 2013

In August 2013, SGS was awarded a contract to provide comprehensive project management consultancy services for a 51MW wind farm project in Tamil Nadu, India by Neyveli Lignite Corporation Limited.

In August 2013, state-owned Neyveli Lignite Corporation Limited contracted SGS project management consultancy services for a 51MW wind farm project at Kaluneerkulam in the Thirunelveli district of Tamil Nadu. Expected to be completed in mid-2014 and commissioned in June, the project marks the Neyveli entry into the renewable energy sector. Appointed to manage and control all aspects of project execution, SGS project management consultants will provide services for 24 months to be broken

down into a 10-month project completion period, a 2-month stabilisation period and a 12-month operations and maintenance period.

NEYVELI LIGNITE CORPORATION LIMITED

Neyveli Lignite Corporation (NLC) is a government-owned lignite mining and power generating company with a history of achievement since its 1956 inception.

A pioneer among companies in the public sector working in energy, NLC has been a member of Navratna, the elite club of public sector enterprises backed by the government to give them comparative advantages and greater autonomy to compete in the global market, since 2011. NLC falls under the administrative control of the India Ministry of Coal.

SGS COMPREHENSIVE CONSULTANCY IN INDIA

SGS consultants will manage and control every aspect of the project execution. Inspectors will be responsible for reviewing and approving electrical installation and equipment drawings as well as single line diagrams for wind farm interfacing. SGS will examine the layout plan control and metering station, unit sub-station, internal OH lines, control room, trenches, earthing, lighting, fencing and gating as well as oversee details of the civil work required. A quality plan and checklists for wind turbine generator (WTG) tower foundations and electrical installations will be prepared and implemented. Scheduling of various activities related to WTG foundations, installations, erection and commissioning will be tracked.

An experienced and skilled SGS site engineer will be posted to supervise the main construction of the WTG towers and foundations and the wind turbine generators as well as WTG commissioning according to schedule. On-site SGS professional consulting staff will inspect all equipment upon receipt, witness pre-commissioning and commissioning equipment tests, control and certify quality, check construction plan, check and certify WTG protocols, review supplier-provided operation and maintenance documents, prepare a list of any defects or incomplete work for suppliers and submit a weekly progress report to NLC project leaders.





The scope of services to be provided to Neyveli for the Indian wind farm project include overall project management comprised of:

- the review and approval of all documents/drawings submitted by suppliers
- construction supervision of WTG double pole yard
- substation and connection to grid
- construction management
- quality management
- site supervision
- coordination of vendors and agencies
- delivery of complete facility to the owner
- submission of all final documents and "as-built" drawings

Upon project completion and commissioning, SGS services will follow up with a senior engineer monitoring the Neyveli wind farm. Detailed data along with information regarding operation and maintenance records covering generation, reactive power consumption, down time and spare consumption will be collected and reviewed.

A complete analysis will be presented to NLC representatives in a prepared report including information about:

- physical condition
- actual generation compared to guaranteed/estimated generation
- actual KVA consumption
- internal losses
- downtime documentation illustrating both periods of low wind/non-availability of grid and machine
- component failure
- present maintenance status
- recommendations to improve operation and maintenance

SGS will ensure that all works are conducted in accordance with the safety plan throughout the course of the construction project. Senior SGS management of PMC will attend regular monthly review meetings at the Neyveli offices.

SGS project management services reduce risk, assure quality, ensure compliance with all applicable regulatory, voluntary or client-based requirements and guarantee a project complete on time and on budget.

As a world-leading provider of project management services, SGS delivers support to a diverse range of projects across all industries. The unrivalled SGS global network and extensive expertise minimise risk and maximise success, wherever needed.

SGS is proud to have been selected for this prestigious project delivering clean power to the citizens of India.

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INSPECTION, VERIFICATION, TESTING
AND CERTIFICATION COMPANY.**