

対象国電力分野における開発ニーズ(課題)

- ・ 急速な経済発展による電力需要の高まり
 - ・ 脆弱な配電線設備と未成熟な施工・メンテナンス能力
 - 停電の頻発により経済活動・市民生活へ影響
 - 配電線事故や人身災害を誘発
 - 急がれる配電線設備増強の大きな妨げに
- ⇒ 配電設備増強、施工技術・品質管理能力の向上と安全性の向上

提案製品・技術

- ・ 施工品質向上と安全確保につながる日本式の配電技術訓練システム
- ・ 作業効率と安全性に優れた日本製の資機材(例、防・保護具、検電器・安全ブロック等)を取り入れた施工ノウハウ

本事業の内容

- ・ 契約期間: 2019年2月～2020年7月
- ・ 対象エリア: ミャンマー国
- ・ C/P機関名: ヤンゴン配電公社(YESC)、地方配電公社(ESE)、マンダレー配電公社(MESC)
- ・ 案件概要: 受注者の持つ日本式配電技術訓練システムと日本製資機材を取り入れた施工ノウハウを理解せしめ、社内教育制度として定着させる。さらに工事・運営方法や施工能率向上に向けた調査報告を通じ、配電工事の受注に向けた素地をつくり、ミャンマー全土における配電事故の防止と、電力の安定供給を目指す。



配電技術訓練の様子

開発ニーズ(課題)へのアプローチ方法(ビジネスモデル)

- ・ 本事業でYESCをはじめとする電力エネルギー省傘下の配電公社へ専門性の高い技術者の育成と配電工事外注のメリットを伝え、外注導入を促し、日本企業が入札参加できるような資格・条件を整え、将来的な事業受注を目指す。
- ・ 本事業で培ったネットワークを活用し、一般企業による工業団地開発エリアでの構内配電設備の受注を目指す。

対象国に対し見込まれる成果(開発効果)

- ・ YESCに教育担当部署の設置を促し、専任の指導員を養成する事で日本式指導方法を取り入れたラインマン教育の体系的、定期的、持続的な実施システムを構築
- ・ 基本作業マニュアルの作成と、マニュアルに則った作業実施の徹底
- ・ 技能認定制度等各作業資格の設定方法並びに資格ごとの実施可能作業についての助言を実施し技術認定制度導入をサポート
- ・ 上記を通じ、ラインマンの技術能力の向上と配電事故防止による安全性の向上、電力の安定化に貢献する

Development Issues Concerned in Electric Power Sector

- Increase in power demand due to dramatic economic development
- Vulnerable distribution system and inadequate workmanship and maintenance skill
 - Affecting economy and citizens' life due to frequent power outage
 - Causing personal injuries due to accidents at distribution lines
 - Significantly interfering with rapid expansion of distribution system
- ⇒Buildup of distribution system and improvement of workmanship, quality management skill and safety are necessary.

Products/Technologies of the Company

- Japanese training system of distribution technique in order to improve the construction quality and safety management
- Construction know-how using Japanese materials and equipment (EX: protection devices, voltage detector and safety block etc) superior for work efficiency and safety

Survey Outline

- Survey Duration : Feb, 2019~Jul, 2020
- Country/Area : Myanmar
- Name of Counterpart(C/P) : Yangon Electricity Supply Corporation (YESC), Electricity Supply Enterprise (ESE) and Mandalay Electricity Supply Corporation (MESC)
- Survey Overview: The survey targets to avoid accidents at distribution system and to supply stable power across the whole of Myanmar by introducing Japanese construction know-how and training system of distribution technique with Japanese tools and materials and by establishing the sustainable training system in Myanmar. In addition, the contractor will build a foundation to receive an order of distribution system project through the survey.



How to Approach to the Development Issues

- The contractor will try to guide C/Ps to develop qualification criteria under which Japanese corporations can participate in future distribution projects by advising C/Ps such as YESC under Ministry of Electricity and Energy of benefits of fostering technicians with expertise and subcontracting distribution works.
- The contractor will establish a network through this project in order to receive an order of distribution system in the industrial park developing area together with private companies.

Expected Impact in the Country

- To establish systematic, regular and sustainable education system for line-man in YESC based on the Japanese training system through training of specialized trainers.
- To develop a standard work manual and execute the work thoroughly along with the manual.
- To get advice about introduction of skill certificate system (i.e. how to define qualifications and works admitted for each qualification).
- To contribute to improvement of line men's skill, safety and stable power supply through the above activities