

## **SCOPE OF CONSTRUCTION WORKS (to be carried out by the awarded Contractor)**

### General Brief of Construction Works

The Scope of Construction Works to be executed by the awarded Contractor shall include but not limited to the construction, installation, testing, commission and remedying defects of the followings:

- Road Works.
- Infrastructure Works.
- Building Works (categorised as 5 Zones).

For reference, a Master Plan showing an overview of the physical extent of the Construction Works is attached.

The construction period stipulated for the Construction Works is thirty (30) calendar months.

=====

## **SCOPE OF CONSTRUCTION SUPERVISION (INCLUDING MINOR DESIGN) SERVICES (TENDER 11/2014)**

**(Full descriptions as per stipulated in the Tender documents)**

### Supervision Services

The performance of services in connection with the construction of the works shall include, but not be limited to the following:

- i. The Consulting Engineer shall advise on and in the preparation of the formal Contract relating to the accepted construction Tender.
- ii. Evaluating the Contractor's application for sub-letting part of the work and assisting the Client's decision in this respect.
- iii. Examining and approving detailed drawings submitted by the Contractor or sub-contractors.
- iv. To prepare, if required, Conditions of Contract and Specification for carrying out sub-surface soil investigation, soil improvement works, topographic survey, destructive and non-destructive tests by specialized contractors to be appointed by the Client and supervision of such investigation.
- v. Making arrangements on behalf of the Client for the inspection and testing during manufacture of such materials and plant as are usually inspected and tested.

- vi. Supervising Acceptance Tests on Site and premises of manufacturers.
- vii. Assisting in settling disputes or differences that may arise between the Client and Contractor(s), except litigation and arbitration.
- viii. Consultation with any other Consulting Engineers appointed by the Client regarding any engineering, financial or legal matters related to the Works.
- ix. Conduct progress meetings and prepare minutes of meetings. Provide site briefings on the progress of the Works as and when requested by the Client.
- x. Taking photographs and videos on the progress of the Works and document them.
- xi. To control and appraise the progress of the Works, to order, if required, issuing warning letters, the suspension of the works and / or to determine the amount of extension of the period for the completion of the works, after prior consultation and agreement with the Client.
- xii. Issuing Variation Orders, as necessary and with the prior approval of the Client, and Completion and Maintenance Certificates for the completed works or parts thereof after the consent of the Client.
- xiii. To examine and attend the measurement of any work which is about to be covered up or put out of view before permanent work is placed there on, and/or to examine and attend the measurement of the complete works.
- xiv. Issuing all certificates to the Client for correct payments to the Contractor and other certificates and information as required by the Client.
- xv. On completion of the Works, revising, checking and approving the drawings.

### **Design Services**

- i. The Consulting Engineer shall carry out the checking, review and analysis of design of all temporary works associated with the construction of civil engineering structures and buildings in the Project submitted by the Contractor.
- ii. The temporary works to be checked include temporary staging areas, excavation, falsework and formwork, back propping, plant foundations and stabilisation requirements, services diversions, temporary supports and all other temporary works necessary for the construction of the Works.
- iii. The Consulting Engineer shall carry out the checking, review and analysis of any modifications/changes to the original design of civil engineering structures or buildings in the Project by the Contractor/Client.

- iv. Check the details of the modifications/changes to ensure consistency with the original design and that they conform to the local Codes and Standards.
- v. Evaluate, analyse and review the impact of such modifications/changes on other key structural elements of the building or civil engineering structures and the overall structural integrity.

**Manpower requirement:** For total period of thirty (39) months.

1. Resident Engineer.
2. Assistant RE.
3. Civil Engineer.
4. Structural Engineer.
5. MEP Engineer.
6. Architect.
7. Quantity Surveyor.
8. Land Surveyor.
9. Site Inspectors (Civil) (2 nos.)
10. Site Inspector (MEP).
11. HSE Officer.
12. Administrative Assistant.