



## Submissions Requirements

**All submission must be according to SLRB As-built standard and specefication v4.2 (see SLRB As-Built website)**

1. Design\ plan file for the as-built project
2. As-built Package **(to be submitted by email [Asbuilt@slrb.gov.bh](mailto:Asbuilt@slrb.gov.bh))**
  - a. **Covering letter** – soft copy
  - b. **Survey report** – soft copy only required (see Page 2 for details)
  - c. **All Surveyed raw data**
    - including established check points/control - soft copy PDF (original file downloded from GPS or Data Dowloader)
    - raw data should be submitted to csv or .txt format
  - d. **As-Built Drawing**
    - Must be submitted in 3D CAD format (.dgn, .dwg)
    - soft copy only required. CAD requirements:
      - i. SLRB Offical Control Points must be surveyed to assist with the quality control checking of the survey.
      - ii. Sample of well defined existing features must be surveyed to assist with the quality control checking of the survey.
      - iii. Link new surveyed as-built data with exist feature if possiable (Road, utilities for example) (20m in both side)
      - iv. All Surveys must be carried out using Bahrain National Grid (Ain Al Abd) and Bahrain National Level Datum (BNLD) 1976.
      - v. SLRB feature codes must be used.
  - e. Any other supporting documentation such as Cadastral plot information or photographs etc. – soft copy only required



# Survey Report Requirements

## General

The report should be typed, in the English language, on company letterhead and signed by the surveyor who was responsible for the work and the principal of the company with the company seal and COEPP registration number

## Title page

With project name address and company name and date of survey along with address of property

## Introduction

This should include the Scope of survey works, date survey carried out, including a summary of the planned and actual programme of work and delivery schedule.

## Personnel and Equipment

This should be a description/listing of the survey equipment (incl. serial nos.), surveying software (capture and processing), and staff employed on the project.

## Methodology

*Survey Network* -This should be a description of the methods employed, and control used.

*Adjustment procedure* -This should provide a description of the method of adjustment of the horizontal and vertical net including GNSS and Star\*Net listing (.txt file) or computations.

*Detail Survey* -Method used to capture detail.

It should include a quality management report describing the Quality assurance procedures used to test the accuracy, completeness and reliability of data in the field, during the processing and the results of tests including an interpretation of results supplied.

## Deliverables

This should be an explanation and listing of what has been delivered.

## Conclusions and recommendations

This should include comments on the specification, results and recommendations for future work.

## Appendixes

Schedule of control if any that was used, and new control established with description

Horizontal and vertical control network diagrams (True to scale or schematic)

Traverse Control Observations, Bowditch Traverse Closures and/or Least Squares Block Adjustment of Traversing

Photographs of Site