

MISCELLANEOUS SURVEYS

1 DIRECTION OF KIBLAT / ASTRONOMY

1.1 Survey Marks Available

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| 1.1.1 | Any approved survey marks can be used for the determination of kibrat direction. | Approved Survey Marks Second Class Traverse |
| 1.1.2 | The method of second class traverse shall be used. | |
| 1.1.3 | The recording of the observation shall be in the form that is
Prepared by the Geodetic Section (UKUR073). | Recording Format |

1.2 Survey marks Not Available

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| 1.2.1 | Where survey marks are not available, a suitable magnetic compass instrument shall be used to determine the kibrat direction. | Compass instrument |
| 1.2.2 | The magnetic compass instrument shall be set up within the area where it is free from any interference. | Local attraction |
| 1.2.3 | The recording of the observation shall be in the form that is
Prepared by the Geodetic Section (UKUR073). | Recording Format |

2. RECTIFICATION OF CONTROL MARKS OR BENCH MARK (Applicable for "permit to dig / Ease of Doing Business")

2.1.1 Appointment of Licensed Land Surveyor (LLS)

- 2.1.2 Applicable to any projects which involved or may disturbed any Control marks or Benchmark
- 2.1.2 Contractors or Consultants shall appoint Licensed Land Surveyor to rectify the damages (control marks / benchmark) during the course of work

2.2 Rectification Works

- 2.2.1 Appointed LLS shall seek approval on proposal of new location of control marks / Bench mark.
- 2.2.2 Control Mark or Bench mark shall be constructed based on Survey Department specifications or standards under Survey Marks Work Instructions.
- 2.2.3 Registration of Survey Paper (SP) and number of Control marks Or Bench mark shall be made by Survey Department.
- 2.2.4 Observations record shall be accordance to Survey Department Format (UKUR063, UKUR118, UKUR104, UKUR103, UKUR081 where applicable)
- 2.2.5 Raw data shall be submitted to Survey Department according to Survey Department format.
- 2.2.6 Approval and verification of final coordinates and height shall be made by Survey Department.

2.3 Accountability

- 2.3.1 The limits of accountability shall cover all the costs associated with the materials and process of installation in making good of the damages according to Survey Department Standard.