MOVEMENT MONITORING

To be read with Preliminaries/General conditions.

NOTE Where changes have been made to the standard NBS clauses these are identified as follows:-

123* = The wording of the NBS clause has been changed or added to
123x = An additional clause

GENERALLY

100x NEIGHBOURING WALL MONITORING
- Visual inspection: Contractor to carry out daily. Look for evidence of movement, distress or vandalism.
- Accidental loading: Protect structure from impact damage by plant and site operations.

110x MOVEMENT MONITORING
- Method: Electronic monitoring of targets fixed relevant locations. Targets to be attached as shown on enclosed sketch.
- Accuracy of reading: $\pm$1mm
- Critical movements:
  - Trigger values: 5mm
  - Action values: 7mm
- Precautions: Take as follows if movements reach critical values:
  - Trigger: Review situation, assess possible causes and submit proposals. Inform engineer.
  - Action: Temporarily suspend works and revise working procedures to limit further movements. Inform engineer immediately.

120x CRACK MONITORING
- Method: Micrometer measurements between 3 studs glued to wall adjacent to crack
- New or extending cracks: Mark extent and record date. Report and make proposals for additional monitoring points.
- Period of monitoring: Until cracks are made good.

130x FREQUENCY OF MONITORING
- Initial readings: Commence readings as soon as survey points have been established and carry out at least 6 monitoring visits over two months before any structural work begins.
- Frequency of subsequent monitoring: Weekly until the major basement structure and ground floor slab are completed, and then fortnightly for a further six visits afterwards, thereafter monthly until permission to cease monitoring is given.
- Increase frequency of readings:
  - If movements are accelerating.
  - If the trend of movements changes unexpectedly.
  - On request of the Engineer.
- Submit results to Engineer in tabulated and graphical form each week (a maximum of 24 hours after measurements have been taken). If movement to trigger values occurs submit results immediately.