

6. Concrete protection systems.
7. The Contractor shall provide from the manufacturer a certificate of analysis of the bentonite powder verifying the properties of each consignment delivered to the Site. Ensure that this certificate is available to the Engineer on request. The properties to be given by the manufacturer shall include the apparent viscosity range (in pascal seconds) the gel strength range (in pascals) for solids in water at 35°C, and the thixotropic hysteresis using different shear rates (ascending and descending.)
8. The Contractor shall provide from the manufacturer a confirmation that the pipe and its material are suitable for its intended use.
9. Provide formats for control documents for pipe raw materials (HDPE granules), pipe extension, butt-fusion welding machine, drill mud production and re-circulation, string placement, site checks, as follows:
 - a) Test certificates – production plant (e.g. raw materials and pipes)
 - b) Checklist (e.g. welding machine start-up work-in progress and shutting down).
 - c) QA/QC forms and inspection reports
 - d) Health and safety
 - e) Daily reports
 - f) Non-conformance reports
 - g) Maintenance of equipment reports
 - h) Sampling reports
 - i) Testing reports
 - j) Daily site condition survey (e.g. subsidence, upheaval, damages, abnormal events, relevant incidents etc.)
 - k) Breakdown reports
 - l) Calibration reports
 - m) Correction non-compliance prevention actions report
 - n) Work control orders
 - o) Trials and commissioning reports