

- i. Provide qualification details of the manufacturer's technical expert to be assigned to the Contract. The technical expert shall have expertise, experience and skills necessary for advising and monitoring all aspects of transport, storage, handling and installation of pipes as appropriate.
 - ii. The technical expert shall provide comprehensive technical assistance to the Contractor throughout the Contract and regularly monitor the Contractor's activities and report on shortcomings.
 - iii. The Contractor shall provide the Engineer copies of all instructions advice or reports given by the manufacturer's technical expert to him. The technical expert shall immediately inform the Engineer of any omission, variations and detractions from the approved handling and installation specification.
- C. Install bedding, surround and backfill as specified in Section 02223 of the specification and shown on the drawings.
- D. Lay pipes from downstream to upstream with the socket end at the upstream end of each pipe.
- E. The pipeline shall be within 20mm of the specified line and the invert level shall be within 6mm of the specified value and shall be such that there is no back fall at any point on a gravity pipeline.
- F. Obtain satisfactory initial deflection test results for sections of pipeline laid between consecutive manholes or chambers prior to commencement of pipe laying in further sections.
- G. When cut pipe is required, ensure that the cutting is done by a machine, leaving a smooth cut at right angles to the axis of the pipe.
- H. When installing pipes, ensure the joint is cleaned and lubricated and that the rubber gasket is inserted in the groove of the socket end of the pipe. Align the spigot and insert home in the socket end. Use a metal feeler to check that the rubber gasket is correctly located. Spigot and socket flexible joints shall have the annular space between the pipe and socket sealed with an approved joint sealant to prevent the ingress of loose material or concrete. This sealing shall be carried out immediately on completion of a satisfactory initial hydraulic test prior to concreting or backfilling.
- I. Ensure that all pipes and fittings are sound and clean before laying. When pipe laying is not in progress, ensure that the pipe ends are at all times fitted with watertight plugs or caps. The plugs or caps shall only be removed for the