

GENERAL NOTES AND ON THE PROPOSED CCT DESALINATION PLANTS

1. All marine works indicated on plans are schematic only.
2. The supplier to use the marine pipework schematic as a guide only and he should choose positions of inlet structures and outlet discharge points based on his own
3. Design taking cognisance of amongst others min. outfall requirements as indicated on these drawings; the water quality required at the plant as well as damage due to
4. Environmental conditions, such as wave and shoreline variation.
5. All pump station positions to be verified.
6. Suppliers design shall ensure pipeline stability and protection along the entire
7. Pipeline(s) length, including the beach crossing, tidal zone, surf zone and offshore
8. Portion.
9. All buoys and other aids to navigation markers shall meet the SAMSA standards in
10. Terms of marine notice no. 8 of 2016
11. All phase 1 work not utilized in phase 2 to be decommissioned after completion of phase 2.
12. Exact piping routes to be provided by contractor.

RESPONSES TO QUESTIONS FROM SAHRA: MUCH

1. Pipe in sea
Pipe buried in seabed at Monwabisi & Strandfontein and buried on land (due to recreational use). Harmony Park sub-sea pipe will be positioned and secured on plinths to Contractor's responsibility to incorporate steel / concrete anchors in accordance with best practice methodologies.
2. Pipe diameter, water depth
Pipe diameter for optimal hydraulic performance (range 200mm - 500mm diameter). Water depth will be a minimum 1m depth.
3. Would pipe be repositioned during the timeframe of the plant (if so indicate polygon of affected area of re positioning)
Unlikely, but in the case of Monwabisi and Strandfontein sites, pipelines will be extended / shortened for Phases 1-2
4. Filter on end of pipe (how big)
Screens (funnel shape) to be installed
5. Monitoring of objects taken in
Screen will prevent suction of majority of objects (bigger than grain of sand)
6. Power of suction
Suction velocity is low prevent object / fish / marine life ingress
7. How are the pipes installed (floated/sunk/dragged)
Contractor will determine.
8. Information on monitoring of pipe and intake (intake at plant as well)
Pipeline integrity to be assessed by the City / Contractor on an annual basis. Lwandile report details updated monitoring programme for existing outfalls.

9. Plant Decommissioning methodology
Remove pipelines and other infrastructure to original condition (Full decommissioning of all components). Will include a condition in EMP that Decommissioning plan be developed at later stage.
10. Diagram /specification of plant size
Surface area is provided on layouts. Maximum height of plant structure restricted to 6.5m.
11. Material to be used for Desalination container
Tender to submit materials to be used to CCT approval in compliance with Engineer functional specifications. Container area will be demarcated with visually permeable fence of approximately 2.1 high.
12. Source of power
Power will be obtained from CCT existing electricity network with back-up generators.
13. Road crossing for overland pipe
Trench or underground culvert to be used.