

Problem Statement: Non-Obtrusive Ducting

Background: We, at Sterlite, have taken upon ourselves to challenge the conventional process of deploying fibre and creating over 10X improvement in the rate of deployment on ground. The current process is marred with high percentage of manual intervention leading to inefficiencies and quality of service. It involves open trenching up to a depth of 1.65 metre & ducting using conventional machines like excavator, backhoe loader, horizontal drilling machines etc. To achieve 10X improvement we are looking for disruptive solutions in this space breaking the constraints of depth, right of way, utility/cable cuts et al.

Ideal solution: Looking for solutions that completely override current practices and constraints to achieve ducting speed of >5km per day

Must haves – success triggers for responses:

- a. The proposed solution should be able to vertically drill the ground 10ft or more beyond utility zones (gas pipeline, other cables, etc.) and then horizontally connects point A to B through a tunnel bearing >45mm diameter and carry the duct
- b. The device is non-obtrusive to underground constructions and able to work in a plethora of soil strata – soft, clay, sand, hard (100 mpa (Megapascal Pressure Unit) and beyond)
- c. Able to navigate underground accurately along the pre-defined geographic co-ordinates and breaks the constraint of Right of Way, Sub-terrain utility detection, Culverts, River Beds et al
- d. The solution is able to operate in narrow corridors like road shoulders, forest areas, dense city and more

Deal breakers: The solution is able to achieve an output of >5km per day partnering with existing resources in local eco-system including/leveraging the solutions from adjacent industry – underground civil, oil & gas, etc.

About us: Sterlite Technologies is a data networks solutions leader that designs, builds and manages smarter digital networks globally. It provides end-to-end network solutions for global telecom companies, cloud companies, citizen networks and the defence. The solutions include 5G and FTTx networks, intrusion-proof defence networks, rural broadband, data-centre networks, and much more. Committed to an inclusive Internet, the company is also developing programmable, open sourced and disaggregated solutions to enable CSPs improve their customer experience and lower their total cost of ownership.

Sterlite Tech is a public company, listed on BSE and NSE, with a broad global shareholder base with presence in over 100 countries. For more details: www.stl.tech

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