

Gas Distribution Network in Gandhinagar & Surrounding Area in Gandhinagar District (NV Petroleum Connectivity & Chiloda Connectivity) : Diversion of 0.1594 Hect. of Protected Forest land i.e. Road side strip plantation declared as protected forest for laying of 90/125 mm dia MDPE Pipeline for supply natural gas to en-route villages/ industries & CNG Station in Gandhinagar District, Gujarat State - Pipeline laying parallel to various State Highway/National Highway along the pipeline route in District Gandhinagar

PROJECT REPORT

INTRODUCTION :

Sabarmati Gas Ltd a joint venture company of Gujarat State Petroleum Corporation Ltd (GSPCL) and Bharat Petroleum Corporation Ltd (BPCL) having the registered office situated in plot no. 907, Sector 21, Gandhinagar - 382021.

Sabarmati Gas Ltd. is currently in the business to setup Piped Natural Gas (PNG) distribution network to provide PNG for residential consumers as well as commercial units and CNG Station in North Gujarat.

Sabarmati Gas Limited is in Process to set up Gas Distribution Network in Mehsana, Sabarkantha and Gandhinagar Districts of Gujarat State. Distribution Network will supply Gas to various industries, cities for domestic use and CNG station etc.

As a part of the project, we are planning to lay 90/125 mm dia MDPE pipeline for supply natural gas to NV Petroleum Pump from SGL's City Gate Station situated near Mubarkpur village, Taluka Kalol, District Gandhinagar and supply natural gas to Chiloda City in Taluka/District Gandhinagar from SGL's existing Chiloda Residential pipeline connectivity. The total length of proposed NV Petroleum Pump Connectivity is 2/630 Km and Chiloda Connectivity is 1/760 Km. The proposed pipeline shall be laid in the space available along side of the existing ROW of National Highway/State Highway at a depth of at least 1.2 mtr. below the lowest ground level. The Company shall follow all the best standards of safety and inspection practices as is prevalent in the Gas Distribution Industry.

One of the main objects to be pursued by the company on its incorporation is to lay, design, construct, fabricate, install and maintain gas process and gas manufacturing plants, gas installation including gas storage, machinery apparatus, pipes, valves fillings, meters and other allied accessories necessary and useful for the manufacturer, supply and destination of gas and energy.

Investigation :

The route has been carefully selected to minimize total length of the pipeline and forests based on desktop study and reconnaissance survey carried out by consultants M/s. Secon Pvt. Ltd.

The Right of Use (RoU) for forest area is proposed as a minimum of 0.4 mtr width (which is the minimum requirement).

The alignment is selected in such a way that while crossing the area under forest cutting of trees is minimized / avoided.

Design :

The entire pipeline will be designed to withstand a Maximum Allowable Operating Pressure (MAOP) of 4 and 49 barg by MDPE pipeline respectively. The design code that generally will be followed would be AMSEB31.8 and PNGRB Technical standard for CGD.



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Pipe material:

Pipe material would be Indian standard grade MDPE material, inspected at factory through third party inspection agency. All valves would be full-bore ball. All pipe fittings would be matching type and class.

Corrosion Protection :

The proposed pipeline is MDPE pipeline and it is not the steel pipeline. Therefore; MDPE pipe do not require cathodic / corrosion protection system.

Investments:

The estimated total cost of the project is Rs. 30 Lakhs (Approx.)

Time Schedule :

The completion schedule for this project is 2020-2021.

For Sabarmati Gas Ltd.,



Mehul Surti
Chief Manager - Project