

Shri Muktsar Sahib Virtual Pipeline – Diversion of 0.177 Hectare of Protected Forest land various Road side strip plantation declared as protected forest for laying of 8" dia Steel Natural Gas pipeline in Shri Muktsar Sahib District of Punjab State – Request for granting permission

JUSTIFICATION FOR ROUTE SELECTION

In consideration of the requirements of Environmental parameters, construction methodologies to be adopted for different terrain encountered en-route, design and engineering factors, availability of logistic support during construction, operation and maintenance of pipeline, various feasible routes were identified by the Consultant M/s. Secon Pvt. Ltd, based on desk study of relevant topographic maps of Survey of India.

The study was subsequently supplemented with field reconnaissance and data collection along the feasible routes. Finally the optimum route was arrived at after analyzing the various data and conducting in depth study of topographic maps based on field data.

Methodology of selection of pipeline route

Relevant topographic maps along the various alternative pipeline route (s) were identified. After conducting a detailed desktop study of the alternative routes on the topographic sheet the feasible routes were identified. This was subsequently supplemented with route reconnaissance data collection along the feasible routes for arriving at the optimum route.

Factors considered

While identifying the various alternatives for selection of the optimum route following factors were considered

Pipeline route has been finalized in such a way that minimum forest land will be utilized as well as tree cutting will be avoided.

Demand and supply center

Compliance with environmental regulations

Safety of people and property

Shortest possible pipeline length

Minimum number of bends

Favorable ground profile for pipeline hydraulics

Accessibility to pipeline route during construction, maintenance and operation

Location of pipeline facilities and access there to

Avoidance of mining protected and reserved forest archaeological and other sensitive areas.

Avoidance of unstable ground features

Minimizing road, rail, rivers, and flood prone areas

Avoidance of rocky stretches

Avoidance of areas reserved for planned future development

Flexibility for future expansion

Based on the above detailed route surveys have been carried out to finalize the exact development corridor for laying the pipeline.

For, Gujarat Gas Ltd.



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