

Description of Project

ONGC has taken up development of Block KG-DWN-98/2 under the New Exploration Licensing Policy (NELP), in deep waters off the east coast of India. As a part of the project, ONGC proposes to lay 20" Pipeline (about 31 km) from Offshore Platform, through Mouth of the Goutami River to ONGC onshore plant at Mallavaram village, Tallaravu Mandal, East Godavari District, Andhra Pradesh.

The KG-DWN 98/2 block is located within 25-40 km of the nearest land-fall and the water depth in this block varies between 300 m to 3,200 m.

Gas from subsea wells for KG-DWN-98/2 shall be processed in the Central Process platform (CPP) located at 30 m water depth. The processed gas shall further be compressed and transported to Onshore Gas Terminal at Mallavaram.

The approximate route length is 31 km from CPP to OGT, Mallavaram. The proposed pipeline route from Central Process Platform (CPP) to OGT Mallavaram is comprised of offshore laying (about 9 km), laying along the river, at depth 2.5 m. below the scour depth (about 13 km), after entering through the river mouth cutting sand dunes and onshore laying (about 9 km) involving shore pull in shore approaches / near shore location. It has major River crossings by HDD (about 2 km) at two different locations.

Pipeline route falls in the CRZ area. A part of the pipeline route falls in forest land and within the 10 km buffer zone of Coringa wild life Sanctuary. The proposed pipeline length of 1.17 km is passing through forest boundary (which is covering the river area, no land forest will be disturbed). The area of forest land required for DGPS survey is about 2.67 ha (10 m buffer either side of 1.17 km pipeline) and Deemed Forest (Mangrove area in Revenue Lands) of 0.59 Ha, Hence, a total of 3.26 Ha.

For construction purposes, temporary placement of equipment or structures will be required. After the completion of construction, the entire stretch will be cleared of all construction material, equipment, debris etc., and the land filled back to original levels. Subsequently entry permit will be required for taking up periodical inspection and maintenance of pipeline.

The installation activity to be performed along River Pipeline scope includes the following:

- Temporary cofferdam installation at LFP to aid in pulling the pipeline ashore;
- Temporary equipment setup and site leveling at LFP to aid in pulling the pipeline ashore;
- Temporary camp setup at a pre-determined location in the vicinity of LFP;
- Dredging of shallow water areas for marine spread access (pipelay barge, supply vessels)
- Dredging of a pre-trench within the river and through the natural sandbar at the river mouth;
- Temporary storage of dredged spoil either within the river channel, on the river banks or at pre-designated onshore temporary storage locations;
- Pipeline installation within the river and through the sandbar location;
- Engineered backfill (sand, rock and spoil) installation over the pipeline;
- Movement of installation vessels from the main Godavari River, along the tributary to the site, along with free access to complete installation activities; and

- Movement of personnel from the installation vessel to the onshore camp location by crew boat.

Additional to the River Pipeline Installation, the installation activities to be performed at shore crossing include:

- Temporary access road to and from the shore site;
- Temporary cofferdam installation at shore crossing location to aid in pulling the pipeline ashore;
- Temporary equipment setup at shore location and site leveling to aid in pulling the pipeline ashore;
- Winch operation at shore pull location; and
- Pre-commissioning activities.

Pipeline Material Details: River and offshore section of the pipeline 20" Pipe X 19.1WT, Carbon Steel, concrete coated pipe.

The hazardous material used for construction activities will be handled in accordance with MSIHC rules and detailed information will be included in MSDS. All safety requirements as stipulated in OISD / PESO / ONGC Guidelines will be followed while handling petroleum products.

Water Requirement: The total water requirement during construction phase will be 25 KLD, which is sourced from local municipal tankers. Out of 25 KLD, for domestic purposed 13.5 KLD will be required and for construction activities 11.5 KLD will be required.

Power/Fuel Requirement: No power requirement during operation phase. During construction phase, the fuel (1500 USG /day, approx.) will be required for running of D.G sets, welding equipment, machinery, vehicles, etc. The requirement will be met from nearby energy stations.

Employment Generation: The construction phase will require skilled and unskilled people on daily average basis and it is envisaged about 300 persons will be engaged during the construction phase of laying pipeline. Several other indirect employment opportunities such as transport, business, vehicle drivers and attendants, workshops, grocery and retails, medical, etc. is envisaged due to the laying of proposed pipeline.

Waste management: Excavated soil will be generated during construction phase, however the same will be reused in back filling the excavated area. Hazardous waste and oil waste will be stored as per guidelines and will be sent to authorized collection agency.

Domestic waste will be generated and will be discharged in pit. Commercial waste is expected and will segregated and disposed / handover to authorized recyclers.

