

**CERTIFICATE****Certificate regarding alternative examined for liner project**

Alternative alignment examine for proposed diversion of 22.9648 Ha. (Alibag Forest Div. area 15.1636 Ha. & Mumbai Mangrove Cell area 7.8012 Ha.) of Mangrove area, Private Forest, Reserved Forest and Unclass forest area for construction of underground Petroleum Product Pipeline with OFC and its associated facilities by BPCL from Mahul (Mumbai Suburban District) to Rasayani (Raigad District) in Maharashtra State as under:

	<b>ROUTE – 1 (Proposed)</b>	<b>ROUTE-2</b>	<b>ROUTE-3</b>
	<b>Mumbai Refinery-Rasayani via Airport road.</b>	<b>Mumbai Refinery-Rasayani via Shivaji Nagar, NH-4B</b>	<b>Mumbai Refinery-Rasayani via Patalganga river, NH-4B</b>
Approx. Length	<b>35.18 KM (Shortest route)</b>	<b>38.86 KM</b>	<b>51.138 KM</b>
CREEK	<b>One Thane Belapur Creek crossing Length: 14.80 km</b>	<b>One Thane Belapur Creek crossing Length: 14.8 km</b>	<b>One Thane Belapur Creek crossing Length: 14.8 km</b>
Sanctuary & ECO SENSITIVE ZONE	Pipeline will be passing outside ESZ of Karnala Bird Sanctuary	Pipeline will be passing outside ESZ of Karnala Bird Sanctuary	Pipeline will be crossing through ESZ of Karnala Bird Sanctuary
MANGROVES	Passing through Mangrove across Thane Belapur creek – (0.9 + 1.9 km)	Passing through Mangrove across Thane Belapur creek – (0.9 + 1.9 km)	Passing through Mangrove across Thane Belapur creek – (0.9 + 1.9 km)
PROXIMITY TO POPULATED AREA	Pipeline is mostly passing through CIDCO & Airport area and along the roads along the industrial / commercial spaces.	Pipeline passing through densely populated area of Wahal & CIDCO and along the NH-43 & NH-4B and in future it may create issue for expansion of roads.	Pipeline passing through densely populated area of Wahal & CIDCO, Ghavan Phata Chirner road along the villages.
FEASIBILITY	At this route there is technical feasibility to lay pipelines along MbPT, JNPT & CIDCO area and cross country location with minimum population density.	Technically not advisable as it will be passing through populated area and space constraint to lay pipeline. Also it is passing along NH they will not have future expansion space if the pipelines are laid.	Technically not feasible as it is passing through populated area, space constraint to lay the pipeline, pipeline is also passing through ESZ of Karnala Bird Sanctuary.

(Maneesh Kumar)  
Deputy Conservator of Forests,  
Alibag