

EXECUTIVE SUMMARY

M/s Chennai Petroleum Corporation Limited (CPCL), a group company of IOCL, one of the premier Public Sector Undertakings is engaged in the business of crude oil refining and in the production of fuel products, lubricants and petrochemical feed stocks. CPCL is the oldest refinery in Southern part of India and the most complex public sector refinery within India in a spread of 800 acres land. CPCL is located at Manali, about 15 km North of Chennai city, 4 km away from Thiruvottiyur Town and 6 km from the Bay of Bengal, in the area exclusively earmarked for industries by the Government of Tamil Nadu.

Manali Refinery Complex was started with refining capacity of 2.5 MMTPA (Million Metric Tonnes Per Annum) and progressively expanded to 10.5 MMTPA by adding new refining units in stages. In addition, CPCL has installed DHDT and Isomerisation Units in 2011-12 to meet the revised BS-III/ BS-IV specifications of MS and HSD.

Chennai Petroleum Corporation is implementing Resid Upgradation Project to minimize the production of High Sulfur Fuel Oil and maximise the refinery distillate yield. As a part of the Resid Upgradation Project, a new Delayed Coker Unit is being installed. Coke is a byproduct of this process. Additionally, CPCL is revamping the once through Hydrocracker Unit (OHCU) from existing 1.85 MMTPA to 2.25 MMTPA to process additional quantity of HCGO generated from new Delayed Coker Unit. Other facilities such as Coker LPG Continuous Film Contacting (CFC) Unit, Sour Water Stripper, Amine Recovery Unit and Sulphur Recovery Unit are also being installed along with utilities and associated off- site facilities such as coke handling facilities required for the Resid Project. The above facilities will be located within the existing refinery complex at Manali. Total cost of project is Rs. 3110.36 Crores

The project was accorded environment clearance by Ministry of Environment and Forests vide letter F.No. J-11011/474/2007-IA II (I) dated 22nd March 2013.

After Detail Engineering of the above facilities, few improvements / changes are being incorporated in the design of the project.

In view of this, CPCL seeks ToR & Amendment to existing EC from MoEF&CC for the said project for the following changes:

Table: 1 Earlier and Present Status

S No	Earlier	Now
1	The open coke yard was proposed at about 3.5 kms away from CPCL premises at amullavoyal.	The coke yard was proposed inside CPCL premises with closed dome storage facility instead of open coke yard thereby reducing Particulate matter emissions.
2	Dispatch of coke through Truck loading	Dispatch of coke through Rail wagon loading in addition to Truck loading. This will also reduce road traffic and pollution.
3	No process water recovery from Resid Effluent Treatment Plant (ETP-4).	Process water recovery from Resid Effluent Treatment Plant (ETP-4) by installing a DM Plant with a capacity of 7200 KLD , thereby reducing the process water intake from Chennai Metro Water Supply and Sewage Board (CMWSSB) to that extent. RO rejects will be generated as a byproduct in the process water recovery. CPCL proposes to dilute this RO rejects with permeate and use it for fire water and Green belt development .