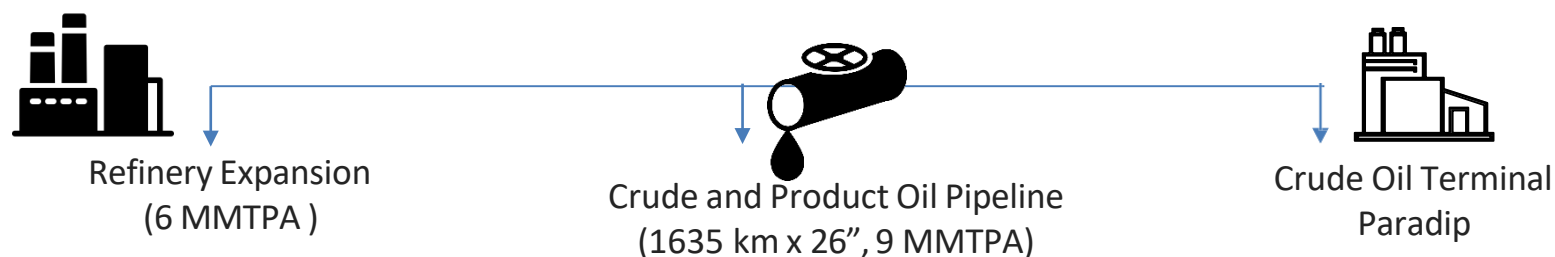


NRL is executing a major expansion project of capacity augmentation from present 3.0 MMTPA to 9.0 MMTPA by installing a **6 MMTPA capacity refinery** and associated **crude oil terminals & pipeline** considering processing of Arab Light(AL) and Arab Heavy (AH) crude oil (AL:AH=30:70). The required additional quantity of crude oil is planned to be imported through Paradip Port in Odisha. A cross country pipeline of around 1635 Km shall be laid from Paradip Port to Numaligarh for transporting 9 MMTPA of imported crude.



Part of the Government of India's Hydrocarbon Vision 2030 initiative to help meet growing demand of petroleum products in northeastern India, NRL's refinery expansion will increase overall crude oil processing capacity and it is scheduled to be completed by March 2027. Environmental Clearance was obtained for the project on 27th July'2020. Approved budget for the project is Rs. 28,026 Cr. Revised cost estimate of Rs 37,720 Cr. is under approval and being reviewed at MoP&NG.

Roadmap for the expansion project



2018

PIB clearance for capacity expansion



2019

Approval from cabinet committee of economic affairs



2020

Environmental Clearance on 27th July, 2020



The project implementation activity was started after obtaining Environmental Clearance on 27th July 2020. **Contract for all major Project Management Consultancy has been awarded.** M/s Technip Chennai was appointed as Managing PMC for the Refinery Project. Additionally, M/s ThyssenKrupp Industrial Solutions and M/s Technip Delhi are appointed as EPCM consultants. **Licensors for the main units have been appointed and work for BEDP progressing as per schedule.**

Summary of key units and award status of consultants

Name of Unit	Capacity (MMTPA/TPD/KTPA)	Licensors	Mode of Execution	Consultants
CDU/VDU	6.0	Technip	EPC	PMC - Technip
Diesel Hydrotreater (DHT)	3.55	UOP		
Sulphur Recovery Block	2x240 TPD	EIL		
Utility & Offsites	--	--	EPCM	Technip
Resid. Proc. & Treat. Unit (RPTU)	2.0	CLG		
MSP (NHT/CCR/ISOM)	1.16/0.789 / 0.465	Axens	EPCM	Thyssenkrupp
Gasoline Desulfurization (GDS)	0.66	Axens		
Petro FCC (PFCC)	1.95	Lummus		
H2 Generation Unit (HGU)	95 KTPA	--	BOO	Matheson

Subsequently, all studies, clearances, scrap removal & pre-project activities had been taken up and are currently under progress. The award of main plant EPC contracts are lined up for awarding. Procurement of other long lead items commenced in FY'21.

With the support of stakeholders and project implementation partners NRL is taking forward the project as per the set time-lines by the Government of India. Project is progressing as per set timelines. The new refinery is targeted for overall commissioning by March 2027.

Roadmap for the Refinery Project



2020

- Start of project enabling activities



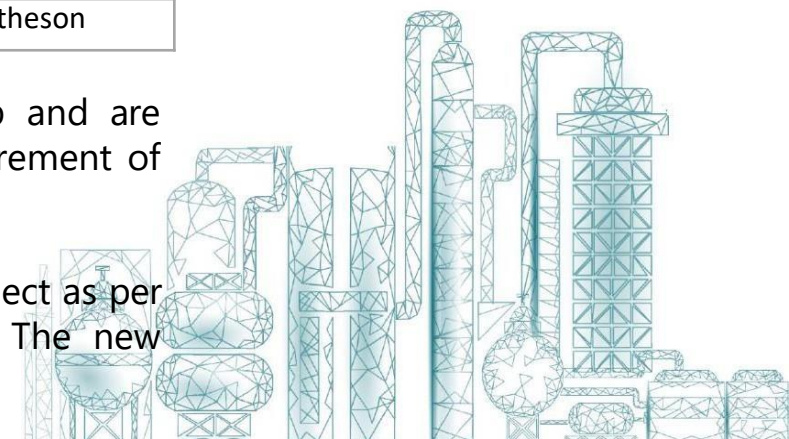
2021

- Start of Construction activities



2027

- Scheduled Completion: March 2027



The crude pipeline is planned to be routed through five states; Odisha, Jharkhand, Bihar, West Bengal and Assam. CTE approval for COIT has been received on 27 Jan 2021. EAC recommendation (MoEF) for CRZ approval has been obtained on 19 May 2021. M/s Engineers India Ltd. has been appointed as PMC for the Pipeline project and Crude Oil Terminal is being constructed based on BOOT basis.

To leverage synergies with existing regional pipeline infrastructure, NRL is utilising a shared Right of Use (RoU) covering 919 km of the total 1,635 km pipeline alignment, shared with GAIL (Purnia–Baihata) and IGGL (Baihata–Numaligarh).

Summary of key units and award status of consultants

Name of Unit	Capacity (MMTPA/TPD/KTPA)	Licensor	Mode of Execution	Consultants
Pipelines (PNPL)	9 MMTPA / 26" diameter	--	EPCM	EIL
COIT & Tank Farms	10 x 60,000 m3	--	EPCM / BOOT	EIL / Indian Oil Adani Ventures

Status of major milestones for PNCPL projects are as follows –

Sl. No.	Milestone	Schedule	Actual
1	Pipeline RoU 3(1) notification (KM)	1635	1635
2	Pipeline RoU 6(1) notification (KM)	1635	1635
3	Receipt of all coated line pipes for PNCPL (date)	19.04.2022	17.11.2022

