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14/1/2015

F. No. J-11011/395/2012-IA II (I)
Government of India
Ministry of Environment, Forests and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road,
New Delhi -110003

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Dated 6th January, 2015

To

The General Manager
M/s Indian Oil Corporation Limited
Refineries Division, SCOPE Complex,
Core 2, 7, Institutional Area
Lodhi Road, New Delhi – 110003.

Forwarded to
ED /c PDRP

Copy to
ED (PJ) / ED (CG) PDRP / ED (HSE)
GM (CHA) - PDRP

14/1/15
GM(HSE)
RMB

Subject: **Grass Root Refinery cum Petrochemical Complex(15 MMTPA) for unloading Crude Oil at Paradeep, Village Abhaychandrapur, Tehsil Kujang, District Jagatshingpur, Orissa by M/s IOCL-Amendment in Environmental Clearance to include rapid Rail Loading System (RRLS) for Pet Coke Evacuation and Minor revision in Secondary Unit Capacities without affecting the product mix.**

Ref.: (i) MoEF letter no. J-11011/70/2007 - IA II (I) dated 6.7.2007 and Letter no. J-11011/395/2012-IA II (I) dated 18th September, 2014.
(ii) Your letter no. nil dated 22.07.2014.

Sir,

This is in continuation of this Ministry's letter referred above and your letter under reference, wherein it was informed that M/s IOCL has decided to install a rapid and environment friendly evacuation system for petcoke from the refinery. Accordingly, Rapid Rail Loading System has been envisaged which will evacuate 1.3 MMTPA pet coke through conveyor system from refinery's delayed coking unit and coke storage area to silos at RRLS from where petcoke shall be transported through railway rakes. With this proposed project, dispatch of petcoke through truck loading will be minimized thereby reducing the air pollution caused by vehicular emissions. The grass roots refinery at Paradip is in advanced stage of completion. In order to have flexibility for processing of wide range of crude oils, some of the secondary unit capacities got marginally changed although the basic process configuration and overall refinery product pattern will remain same. NOC for the same has already been obtained from Orissa Pollution Control Board vide letter no. 12048/Ind-II- NOC-4600 dated 25th June, 2012. It was noted that after change in the project configuration, SO₂ emission will be within 1000 Kg/hr and effluent discharge within 8400 m³/day. Details of change in the plant configuration are as given below:

S.N.	Unit of Paradeep Refinery Project	Capacity as per EC dated 6 th July, 2007	Revised Capacity
Refinery Units			
1	Crude & Vacuum & Unit (AVU), MMTPA	15.0	15.0

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2	Delayed Coker Unit, MMTPA	4.1	4.1
3	Diesel Hydro Treating Unit, MMTPA	5.8	5.2
4	VGO Hydro Treating Unit, MMTPA	5.2	5.4
5	Fluidised Catalytic Cracking Unit, MMTPA	3.9	4.2
6	Sulphur Recovery Unit, TPD	(2 + 1) x 450 TPD of Sulphur	2 x 525 TPD + 1 TGTU
7	Hydrogen Plant, TMTPA	Capacity not mentioned in the EC	72.8 (Hydrogen)
8	Various Treating Units	---	--
9	Alkylation Unit, TMTPA	500	650
	Petro-chemical Units		
10	Polypropylene Unit, TMTPA	2x340	2x340
11	Para-Xylene Unit (Naphtha Hydrotreating Unit, Continuous Catalytic Reformer, Reformate Splitter Unit (I & II), Xylene Isomerisation Unit (2 trains) Parex Unit Capacity (2 Trains), Silfolane Extraction Unit, Benzene/ Toluene Factionation Unit, Tatoray Unit	1200 TMTPA of Paraxylene	1200 TMTPA of Paraxylene
12	Ethyle Benzene and Styrene Monomer, TMTPA	600	631
13	Captive Power Plant and cooling Tower	Capacity not mentioned in the EC	GT with HRSG(3 x 102 MW) STG (2 x 30 MW), UB (4 x 300 T/Hr.) standby GT with HRSG of 1 x 30 MW (366 MW , 1200 TPH)
	Details of the treating and Other Unit Capacities		
	LPG Treater, TMTPA		210
	LPG Treater (Cracked LPG), TMTPA		1850
	LPG Treater (Coker LPG), TMTPA		165
	ATF (Merox), TMTPA		1200
	SWS-I + SWS-II, m3/hr		227 + 398 = 625
	ARU - Rich Amine Circulation Rate, m3/hr		1x454.6 + 1 x 898.5 = 1353
	Para- Xylene Unit, TMTPA -Naphtha Hydrotreating Unit, TMTPA -Continuous Catalytic Reformer, TMTPA -Reformate Splitter Unit (I & II), TMTPA -Xylene Isomerization Unit (2 Trains), TMTPA -Parex Unit capacity (2 trains),	1200	1200 3941 2990 Part of Reformer 4246 (Isomerase) 1200 PX 963 Part of

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	TMTPa -Sulfolane Extraction Unit, TMTPA - Benzene / Toluene Fractionation Unit, TMTPA Tatoray Unit TMTPA		Sulfolane Unit 2183
	Proposed Facility		
	Pet Coke Evacuation through Rapid Railway Loading System (RRLS), MMTPA	--	1.3

2. The proposal referred above was placed before the Reconstituted Expert Appraisal Committee (Industry) in its 24th meeting held during 29th -30th September, 2014. The Committee noted that there is no change in overall production capacity and throughput. There is change in secondary pattern and yield improvement. There is reduction in the vehicular traffic, SO₂ emission, NO_x emission and fugitive emissions. The Committee exempted the project from EIA/EMP report preparation and public hearing as per section 7 (ii) of EIA Notification, 2006. After detailed deliberations, the Committee recommended for the amendment in the EC for as referred above subject to the specific and general environmental conditions

3. The Ministry accepts the recommendation of the REAC (Industry) for amendment in the existing environmental clearance subject to the specific and general environmental conditions.

4. All other conditions including validity stipulated in the environmental clearance letter no. J-11011/70/2007 - IA II (I) dated 6.7.2007 and letter no. J-11011/395/2012-IA II (I) dated 18th September, 2014 shall remain the same.

5. You are requested to keep this letter with the Environmental Clearance accorded vide letter No. J-11011/70/2007 - IA II (I) dated 6.7.2007.

6. In future, in case of change in the scope of the project, the company shall obtain fresh environmental clearance.


7. This issues with the prior approval of the Competent Authority.



(Lalit Bokolia)
Additional Director

Copy to:-

1. The Secretary, State Department of Environment, Government of Odisha, Bhubaneswar, Odisha.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, Odisha Pollution Control Board, Parivesh Bhavan, A/118, Neelkanthhanagar, Unit-8, Bhubaneswar - 751 012, Odisha.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751 023, Odisha.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File / Record File/Monitoring file.


(Lalit Bokolia)
Additional Director