

इंडियन ऑयल कॉर्पोरेशन लिमिटेड
डाकघर : पानीपत रिफ़ाइनरी, पानीपत-132140



INDIAN OIL CORPORATION LTD.
(Govt. of India Undertaking)
PANIPAT NAPHTHA CRACKER
PO - PANIPAT REFINERY,
PANIPAT- 132140 (Haryana),
Fax : 0180-2541100

Ref. No. TS/HSE/4/2017

Date: 5.7.2017

To

The Advisor , MOEFCC
Regional Office (N.R.)
Bays No. 24-25, Sector-31-A, Dakshin Marg,
Chandigarh - 160047

Ref. No. 21-789/2007 – IA III dated. 08.04.2008

Sub: Compliance report of environment conditions- construction of expansion Project of IOC's township for Naphtha Cracker Project


Dear Sir,

Please find enclosed herewith the compliance report of the MOE&FCC stipulations for expansion Project of IOCL's township for Naphtha Cracker project in village Dadlana, Panipat for period Jan 17 to June'17 (Ref no. 21-789/2007-IA III dtd.08.04.2008).

Also, this project was completed seven years ago. Six monthly compliance report is being submitted for last 7 years. Pl confirm , Whether we should continue submitting compliance , else stop it .

Thanking You,

Yours faithfully


(AJAY KUMAR)
Dy Manager (HS&E)

Encl: (I) Compliance report
(II) Data sheet

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
Specific Conditions		
	health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	manpower utilized.
General Conditions		
I)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.	Complied All consents are valid up to 30.9.2021
II)	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alteration in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted
III)	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.	Complied PESO approval maintained.
IV)	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dba (nighttime).	Complied Noise monitoring being done .
V)	A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Complied This is a small project. However IOCL maintain fully equipped environmental cell.
VI)	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	Complied Reported in environment statements.

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
Specific Conditions		
VII)	The Regional office of this Ministry/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Complied
VIII)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied The communication to local Panchayat has been done on 31.07.2014.
IX)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10,PM2.5,S02,NOx,HC (Methane & Non-Methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Ambient air parameters are online connected to CPCB & HSPCB servers
X)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal office of CPCB and the SPCB. The Regional Office of this Ministry/CPCB/SPCB shall monitor the stipulated conditions.	Complied
XI)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned state Pollution Control Board as prescribed under the Environment (Protection) rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of MOEF by e-mail.	Complied Environment Statement is sent to HSPCB every year.
XII)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular	Complied The message has been circulated through AMAR UJALA & THE TRIBUNE on 05.08.2014.

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
Specific Conditions		
	language of the locality concerned and a copy of the same shall be forwarded to the Regional office.	
XIII)	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied
8.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
9.0	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
10.0	The above conditions will be enforced, inter-alia under the provision of the water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of water pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted

Construction of Expansion project of IOC's Township for Naphtha Cracker Project

Environmental Clearance No.21-789/2007-1A.III, dated 08.04.2008 from Ministry of Environment, Forest & Climate Change

Sl. No	Conditions stipulated in the EC letter	<u>Status/Action plan</u>
<u>Specific Conditions</u>		
<u>Construction Phase</u>		
I)	Vehicles hired for construction activities should be operated only during non-peak hours.	Complied
II)	All the top soil excavated during construction activities should be stored for use in horticulture / landscape developments within the project site.	Complied
III)	Ready mix concrete shall be used in building construction.	Complied
IV)	Water demand during construction shall be reduced by use of premixed concrete, curing agents and other best practices.	Complied
V)	Permission to draw and use ground water for construction work shall be obtained from competent authority prior to construction/ operation of the project.	Ground water is not used
VI)	Fixture for showers, toilet, flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	complied
VII)	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary use high quality double glass with special reflective coating in windows.	complied
VIII)	Roof should meet the prescriptive requirement as per energy conservation building code by using appropriate thermal insulation material to fulfill requirement.	complied

Sl. No	Conditions stipulated in the EC letter	Status/Action plan
<u>Specific Conditions</u>		
<u>Construction Phase</u>		
I)	Opaque wall should meet the prescriptive requirement as per energy conservation building code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non air conditioned spaces by use of appropriate thermal insulation to fulfill requirement.	complied
II)	Strom water control and its reuse should be as per Central Ground Water Board and BIS standard for various applications.	Rain water harvesting done along the route of storm water drains
III)	All required sanitary and hygienic measures including portable toilet / septic tank etc. for labour should be in place before starting construction activities and to be maintained throughout the construction phase.	Complied
IV)	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminates.	Not applicable
V)	A First Aid Room will be provided at the project site both during construction and operation of the project.	Complied
VI)	Adequate drinking water facility should be provided for construction workers at the site. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.	Complied
VII)	Disposal of muck including excavated material during construction phase should not create any adverse effects on the neighboring communities and be disposed off taking the necessary precautions for general safety and health aspect of people.	Complied
VIII)	Diesel power generating sets used during construction phase should be of "enclosed type" to prevent noise and should conform to rules made under Environment (Protection) Act 1986, prescribed for air and noise emission standards.	Diesel gen-sets not used.

Sl. No	Conditions stipulated in the EC letter	Status/Action plan
Specific Conditions		
Construction Phase		
I)	Ambient noise level should conform to standard both during day and night when measured at boundary wall of the premises. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.	Normal environment is not affected.
II)	The construction agencies shall use fly ash based material/ products as per the provisions of fly ash notification of 14.09.1999 and as amended on 27.8.2003.	Cement (PPC) is used in the construction work which is fly-ash based.
III)	Vehicles hired for bringing construction material at site should be in good condition and should have valid "pollution under check" (PUC) certificate and to conform to applicable air and noise emission standards and should be operated only during non peaking hours.	Complied.
IV)	Construction spoils including bituminous material and other hazardous materials must not be allowed to contaminate water courses and dump sites for such material must be secured so that they should not leach in to the ground water.	Complied.
V)	Any hazardous waste generated during construction phase should be disposed of as per applicable Rules & norms with necessary approvals of the State Pollution Control Board.	No hazardous waste is generated in this project.
VI)	Under the provisions of Environment (Protection) Act 1986, legal action shall be initiated against the project proponent if it was found that construction of project had started without obtaining environmental clearance.	Environmental clearance has already obtained
VII)	The diesel required for operating DG set shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.	DG sets is not used.

<u>Sl. No</u>	<u>Conditions stipulated in the EC letter</u>	<u>Status/Action plan</u>
<u>Specific Conditions</u>		
<u>Construction Phase</u>		
I)	The approval of competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments etc. as per national building code including protection measures from lightening etc. If any forest land is involved in the proposed site, clearance under the Forest Conservation Act shall be taken from the competent authority.	All buildings are earthquake-proof, as per the national building code.
II)	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase so as to avoid disturbance to the surroundings.	Complied

<u>Operational Phase</u>		
The environmental clearance recommended to the project is subject to the specific conditions as follows:		
I)	Diesel power generating sets proposed as source of back up power for lifts, common area illumination and for domestic use should be of "enclosed type " and conform to rules made under the Environment (protection) Act 1986. The location of DG Sets maybe decided in consultation with State Pollution Control Board.	DG sets not in use.
II)	Ambient noise level should be controlled to ensure that it does not exceed the prescribed standards both within and at the boundary of the proposed complex.	ensured
III)	Weep holes in the compound wall shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.	Complied.
IV)	The STP shall be installed for the treatment of sewage generated to the prescribed standards including odour and treated effluent will be recycled to the maximum extent possible. In case treated effluent is to be discharged separately during monsoon period consent of State Pollution Control Board shall be taken.	Existing STP shall cater the need of expansion project also

XIII)	Energy conservation measures like installation of CFLs/FLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs & FLs should be properly collected and disposed of/ sent for re-cycling as per the prevailing rules/ guidelines of the regulatory authority to avoid Mercury contamination. Use of solar panels may be done to the extent possible.	Has already been incorporated in the design of buildings.
XIV)	The building should have adequate distance between them to allow movement of fresh air and passage of light to the residential premises.	Sufficient distance have already been proposed between the buildings as per Department of Town and Country Planning (DTCP), Haryana
XV)	Adequate measures should be taken to prevent odour problem from solid waste processing plant as also from the STP.	Green belt between solid waste processing plant and dwelling units is developed.

Sl. No.	Conditions stipulated in the EC letter	Status/Action plan
General Conditions		
I)	The environmental safeguard contained in the documents should be implemented in letter and spirit.	Complied.
II)	Provision should be made for the supply of kerosene or cooking gas and pressure cooker to the laborers during construction phase.	Complied.
III)	6 monthly monitoring reports should be submitted to the Ministry and its Regional Office.	Complied

Encl: Data Sheet (3 pages)

**NORTHERN REGIONAL OFFICE
Ministry of Environment & Forests
Chandigarh**

**DATA SHEET FOR EXPANSION OF IOCL TOWNSHIP FOR UPCOMING NAPHTHA
CRACKER PROJECT AS ON 15.01.2017**

Sl. No.	Questions	Reply
I)	Project type: River-Valley/Mining/ Industry/Refinery/Transportation	Township
II)	Name of the project	Expansion of IOCL Township for upcoming Naphtha Cracker Project.
III)	Clearance letter(s)/I.O.M. No. and dates	MoEF, New Delhi letter no.21-789/2007-IA.III dated 08.04.2008.
IV)	Location	
	a. District (s)	Panipat
	b. State(s)	Haryana
	c. Latitudes/Longitudes	29 degree 30 minutes north 76 degree 54 minutes east
V)	Address for correspondence:	
	Address of Concerned Project Chief Engineer (with pincode /tel no. /telex/fax no./ email)	Shri Naveen Kumar (CMNMCL) Indian Oil Corporation Ltd., Panipat Refinery,Panipat-132140 ,Haryana Tel. No. 0180-2525171,
	Contact person and address	Shri H.V.Farkya, DGM (HS&E) Indian Oil Corporation Ltd.,

Sl. No.	Questions	Reply
		Project Building Panipat Refinery, Panipat-132140, Haryana Tel. No. 0180-2524525 Fax No. 0180-2578833 E-mail- farkyahv@indianoil.in
VI)	Salient Features:	
	a. Of the project	This project has come up in the newly acquired approx. 66 acre land adjacent to the existing township. It will accommodate approximately nos. of dwelling units of different categories for IOCL employees.
	b. Of the environmental management plans	As per Environmental Clearance for the Expansion project of IOCL Township for Naphtha Cracker Project.
VII)	Breakup of the project area:	
	a. Submergence area; Forests & non-forests	Nil
	b. Others	The project is set up in newly acquired approx. 66 acre land at Village Dadlana, adjacent to the existing township on the southern side.
VIII)	Break up of project affected population with enumeration of those losing house /dwelling unit only, agricultural land only, both dwelling units and agricultural land and landless labourers/artisans	
	a. SC	N.A.
	b. others = OBC+General	N.A.
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures. If a survey has been carried out, give details and year of survey.)	N.A.

Sl. No.	Questions	Reply
IX)	Financial details	
	a. Project cost as originally planned and subsequent revised estimates and the year of price reference	Original: Rs.100 Crore (Approx.) Revised: N.A.
	b. Allocations made for environmental management plans with item wise and year wise break up.	Rs 50 (Lakhs) approx. for rain water harvesting and tree plantation
	c. Benefit cost/ratio/internal rate of return and the year of assessment	NA
	d. Whether (c) includes the cost of environmental management as shown in b) above	NA
	e. Actual expenditure incurred on the project so far	Rs. 90 Crores (Approx.)
	f. Actual expenditure incurred on the environmental management plans so far.	Rs. 50 lakhs a) Tree plantation b) Rain water harvesting c) Monitoring of environment data
X)	Forest land requirement	Nil
	a. The status of approval for diversion of forest land for non-forestry use.	NA
	b. The status of clear felling	NA
	c. The status of compensatory a forestation, if any	NA
	d. Comments on the viability of compensatory a forestation programme in the light of actual field experience so far.	NA
XI)	The status of clear felling non-forest areas (such as	N.A.

Sl. No.	Questions	Reply
	submergence area of reservoir, approach road) if any, with quantitative information.	
XII)	Status of construction	
	a. Date of commencement (Actual and/or planned)	Was started on 09.10.2008
	b. Date of completion (Planned)	Completed in February 2010
XIII)	Reasons for the delay if the project is yet to start	N.A.

PANIPAT NAPHTHA CRACKER PROJECT

Environmental Clearance No.J-11011/153/2004-IA II (I) dated 4.1.2005 from Ministry of Environment, Forest & Climate Change
Six-monthly compliance report - Dated 15.01.2017

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
Specific Conditions		
I)	The gaseous emissions (SO ₂ , NO _x and HC, Benzene) from the various process units should conform to the standards prescribed under Environment (Protection) Rules, 1986 or norms stipulated by the SPCB whichever is more stringent. At no time, the emission level should go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.	Complied Emissions are well within limits.
II)	Adequate ambient air quality monitoring stations (SPM, SO ₂ , NO _x and HC, Benzene) should be set up in the Naphtha Cracker Complex in consultation with SPCB, based on occurrence of maximum ground level concentration and down-wind direction of wind i.e. maximum impact zone. The monitoring network must be decided based on modeling exercise to represent short term GLCs. Continuous on-line stack monitoring equipment should be installed for measurement of SO ₂ and NO _x . Data on VOC should be monitored and submitted to the SPCB/Ministry.	Complied Continuous online stack monitoring analyzers are installed for measurement of SO ₂ , NO _x CO & PM connected to servers of CPCB & HSPCB. VOC monitoring being done
III)	Measures for fugitive control should be taken by installation of internal floating roof tanks for storage of liquid HCs and provision of double mechanical seals to all pumps handling high vapor pressure materials, sensors for detecting HC/toxic gas leakages at strategic locations, regular inspection of floating roof seals, maintenance of valves and other equipments and regular skimming of separators/ equalization basin.	Complied
IV)	All new standards/norms that are being proposed by CPCB for petrochemical plants shall be applicable for the proposed Naphtha Cracker and downstream polymer units. The company shall conform to the proposed process vent standards for organic chemicals including non-VOCs and all possible VOCs i.e. TOCs standard and process vent standards for top priority chemicals. The	Complied MINAS standard for Petrochemical being followed



SL. No.	Conditions stipulated in the EC letter	Status/Action plan
Specific Conditions		
	company shall install online monitors for VOC measurements. Action on the above should be taken during the detailed design stage of the PNC. The project authorities shall take necessary measures to comply with the above proposed emission norms including monitoring facilities and intimate the same to the Ministry.	
V)	M/s IOCL shall adopt Leak Detection And Repair (LDAR) programme for quantification and control of fugitive emissions.	Complied. LDAR in practice
VI)	The company shall also ensure that the total SO ₂ emission from the PNC shall not exceed 138 kg/hr during the normal operations	Complied.
VII)	To mitigate NO _x emission, the company shall install low NO _x burners.	Complied
VIII	The waste water effluent from the PNC should not exceed 750 M3/Hr. The waste water shall be segregated in different streams at the source. The treated effluent should comply with the standards stipulated by HSPCB/CPCB for discharge on land for irrigation. The treated effluent should be used for cooling service, greenbelt, dust suppression and firewater. As per the commitment given, there should be zero effluent discharge due to the proposed project. The company should ensure that there will be no discharge of treated effluent into Thirana drain.	Treated effluent of stipulated quality, is recycled in DMRO and is reused for cooling service, greenbelt, dust suppression and firewater.
IX)	The oily sludge generated from the ETP after oil recovery shall be taken to the existing refinery facilities for further treatment and disposal into the secured landfill. The spent catalyst shall be disposed off into the secured landfill facility. The design of the secured landfill site shall be as per the central pollution control board guidelines. The company shall firm up the plan for construction of hazardous waste facility within the PNC or send the hazardous waste to secured Landfill site being developed by the Haryana Environmental Management society. The final plan during detailed design stage of PNC for construction of hazardous waste management facility shall be submitted to the Ministry.	Having the Secured Landfill provision within the IndianOil Panipat Complex at Refinery site. Further, as an alternative, the membership/registration with the HEMS-GEPIL, Haryana has also been taken as alternative for disposal of Hazardous Waste.
X)	Green belt should be provided to mitigate the effects of fugitive emissions all around the plant in	Complied to meet the

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
Specific Conditions		
	an area of 40 ha. In addition to 240 ha. of area already afforested in consultation with DFO as per CPCB guidelines.Green belt in the NW direction should be strengthened keeping in view the winds from SE and E direction. The trees should be planted in both sides of approach roads and truck parking area.	stipulations. Further, plantation being done on both sides of approach roads and government offices in Panipat City.
XI)	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per Factories Act.	Complied.

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
General Conditions		
I)	The project authorities must strictly adhere to the stipulations made by Haryana State Pollution Control Board and State Government.	Complied
II)	No further expansion or modification of the plant should be carried out without prior approval of Ministry of Environment & Forests.	Being followed
III)	At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.	Being followed
IV)	All the recommendations made in the EIA/EMP and risk assessment report should be implemented.	Complied
V)	The overall noise levels in and around the plant area should be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Acoustic hoods, silencers, enclosures etc. on all sources of noise generation have been provided to meet the required noise stipulations.
VI)	The Project Authorities must strictly comply with the provisions made in manufacture, storage and Import of Hazardous chemicals Rules 1989, as amended in 2000 for handling of Hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commissioning of the project.	Complied, CCE /PESO approval is available

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
VII)	The Project Authorities must strictly comply with the rules and regulations with regard to handling and disposal of Hazardous wastes, in accordance with the Hazardous waste (Management and Handling) Rules, 2003. Authorization from State Pollution Control Board must be obtained for conditions/ treatment/ storage/disposal of hazardous wastes.	Complied
VIII)	The Project Authorities will provide adequate funds both recurring and non-recurring expenses to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	Being followed
IX)	The stipulated conditions will be monitored by the Regional office of this Ministry at Chandigarh/ Central Pollution Control Board/ State Pollution Control Board. A six monthly compliance status report and the monitored data should be submitted to them regularly.	complied
X)	The project proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry and Forests at http://www.envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the regional office.	complied
XI)	The Project Authorities should inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Final approval of the project has been accorded by IOC's Board of Directors in their meeting, on 22.12.2006

Encl: Data Sheet (4 pages)

**NORTHERN REGIONAL OFFICE
MINISTRY OF ENVIRONMENT & FORESTS
CHANDIGARH**

DATA SHEET FOR PANIPAT NAPHTHA CRACKER PROJECT AS ON 15.01.2017

Sl. No.	Questions	Reply
I)	Project type: River-Valley/Mining/Industry/Refinery/Transportation	Petrochemicals.
II)	Name of the project	Panipat Naphtha Cracker.
III)	Clearance letter(s)/I.O.M. No. and dates	MoEFCC, New Delhi letter no. 11011/153/2004 IA.II (I) dated 04.01.2005
IV)	Location	
	a. District (s)	Panipat
	b. State(s)	Haryana
	c. Latitudes/Longitudes	76 degree 52 minutes east 29 degree 29 minutes north
V)	Address for correspondence:	
	a. Address of Concerned Project Chief Engineer (with pincode /tel no. /telex/fax no./ email)	Shri H.V.Farkya, DGM (HS&E) Indian Oil Corporation Ltd., Project Building Panipat Refinery, Panipat-132140, Haryana Tel. No. 0180-2524525 Fax No. 0180-2578833 E-mail- farkyahv@indianoil.in
	Contact person and address	Shri H.V.Farkya, DGM (HS&E) Indian Oil Corporation Ltd., Project Building Panipat Refinery, Panipat-132140, Haryana

Sl. No.	Questions	Reply
		Tel. No. 0180-2524525 Fax No. 0180-2578833 E-mail- farkyahv@indianoil.in
VI)	Salient Features:	
	a. Of the project	This plant will produce 650,000 tonnes per year of LLDPE/HDPE, 575,000 tonnes per year of polypropylene, 300,000 tonnes per year of MEG, 140,000 tonnes per year of LPG, 167,000 tonnes per year of Benzene, 230,000 tonnes per year of pyrolysis gasoline, 87000 tonnes per year of CBFS, 136000 tones per year of Butadiene etc.
	b. Of the environmental management plans	In line with Environmental Clearance for the Naphtha Cracker Complex
VII)	Break up of the project area:	
	a. Submergence area; Forests & non-forests	Nil
	b. Others	The project set up in Baljatan village in 756 acres land. Additional 254 acres has been acquired to the East of the project site, for truck parking area, collection of rain-water, administrative building etc. Balance area is being used as temporary fabrication yard for Naphtha Cracker Project. Another 187 acres land has been acquired to the NorthWest of the project site, which would be used primarily for shifting of the existing Petcoke yard from the Naphtha Cracker project site, strengthening of the green belt etc.
VIII)	Break up of project affected population with enumeration of those losing house /dwelling unit only, agricultural land only, both dwelling units and agricultural land and landless labourers/artisans	
	a. SC	N.A.

Sl. No.	Questions	Reply
	b. others = OBC+General	N.A.
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures. If a survey has been carried out, give details and year of survey.)	
IX)	Financial details	
	a. Project cost as originally planned and subsequent revised estimates and the year of price reference	Original: Rs.6,300 Crore (Oct'03 basis) Revised: Rs.14,439 Crore (Nov'06 basis)
	b. Allocations made for environmental management plans with item wise and year wise break up.	Over Rs.225 Crore was provided
	c. Benefit cost/ratio/internal rate of return and the year of assessment	23.3% (Original) (Revised based on Nov'06 estimate: 20.2%)
	d. Whether (c) includes the cost of environmental management as shown in b) above	Yes.
	e. Actual expenditure incurred on the project so far	Rs.13,332.18 Crore
	f. Actual expenditure incurred on the environmental management plans so far.	Included in the above
X)	Forest land requirement	Nil
	a. The status of approval for diversion of forest land for non-forestry use.	

Sl. No.	Questions	Reply
	b. The status of clear felling	
	c. The status of compensatory afforestation, if any	
	d. Comments on the viability of compensatory afforestation programme in the light of actual field experience so far.	
XI)	The status of clear felling non-forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information.	N.A.
XII)	Status of construction	
	a. Date of commencement (Actual and/or planned)	Equipment mobilization at site commenced since October 2006. Project construction activities commenced in December 2006.
	b. Date of completion (Planned)	Unit Commissioned in March 2010.
XIII)	Reasons for the delay if the project is yet to start	NA
