

रिफ़ाइनरीज़ प्रभाग Refineries Division इडियन ऑयल कॉर्पोरेशन लिमिटेड

गुजरात रिफाइनरी, डाकघर : जवाहरनगर, जिला – वडोदरा, गुजरात - 391 320.



Indian Oil Corporation Limited Gujarat Refinery, P.O. Jawaharnagar, Dist. : Vadodara, Gujarat - 391 320.

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Ref: HSE/EP/MoEF/18

5th Jul, 2017

Dr. B.B. Barman Director, Ministry of Environment and Forests Regional Office, Western Region Kendriya Paryavaran Bhavan E-5, Ravi Shankar Nagar Bhopal – 462016 (MP)

Sub: Status of EC conditions for MSQIP, Resid Upgradation, GT-6, BS-IV & BS-VI Project at Gujarat Refinery

Dear Sir

The compliance status of Environmental Compliance conditions specified in EC letter of the subject projects is enclosed herewith, for your kind information.

Thanking You,

S. Ray Choudhuri Deputy General Manager (HSE) Gujarat Refinery

Encl: As above

CC: The Member Secretary Gujarat Pollution Control Board Paryavaran Bhavan Sector – 10 A Gandhinagar – 382021

STATUS OF COMPLIANCE OF ENVIRONMENTAL STIPULATIONS MADE BY MoEF WHILE ISSUING ENVIRONMENTAL CLEARANCE FOR RESID UPGRADATION PROJECT

S.N.	Stipulation	Compliance status as on 01.07.17
3.N.	The total SO2 emission level from the unit	Presently, 59 stacks exist at Gujarat
	after the proposed up gradation shall not	Refinery. Total SO2 emissions from all
	exceed 940 kg/hr, which are less than the stipulated level of 982 kg/hr	these stacks remain in the range of 300-350 kg/hr for the period Jan 2017
		to June 2017
		Hence, it is complied
		Hence, it is complied.
2.1	The NOx emission level shall be limited to 225 kg/hr which are less than the stipulated level of 256 kg/hr.	Presently, 59 stacks exist at Gujarat Refinery. Total NOx emission from all these stacks is in the range of 200-220 kg/hr for the period Jan 2017 to June 2017
		Hence, it is complied.
2.2	The company shall install low NOx burners for all the proposed units.	All the new furnaces are provided with low NOx burner
3.1	The total effluent generation shall not exceed 1110 m3/hr.	Total effluent generation for the period Jan 2017 to Jun 2017 is within 1110 m3/hr. For the period of Jan 2017 to June 2017, effluent generation remains in the range of 1000-1090 m3/hr.
3.2	The fresh water consumption shall not exceed the existing requirement.	Freshwater consumption for the period Jan 2017 to June 2017 is in the range of 1900-2100 m3/hr.
3.3	The additional water requirement if any shall be met through recycling of treated effluent.	There is no additional freshwater requirement.
4.1	It is noted that no hazardous sludge like oily waste shall be generated.	Sludge generated has been analysed in-house and it is found to be non- hazardous.
4.2	The spent catalyst shall be recycled back to the licensor and balance shall be disposed of in the secured landfill facility of M/s NECL, Nandesari.	sold to CPCB approved metal recyclers.
5	No further modernisation of project shall be carried out without prior permission of	

(LETTER NO. J-11011/35/2000-IA II (I) OF 27TH APRIL 2006)

S.N.	Stipulation	Compliance status as on 01.07.17
	this Ministry	out without prior permission of this Ministry
6	The company shall store LPG in mounded bullets and replace LPG spheres by mounded bullets.	
7	Recommendations made in the risk assessment report shall be complied during design construction and operation stage to contain the risk within plant boundary	RA have been taken care during design, construction and operation

SUB: Compliance status of stipulations put by MoEF while according Environmental Clearance for MS Quality Improvement Project at Gujarat Refinery.

Ref: MoEF Letter No. J-11011/54/2003-IA-II (I) Dated 17.07.2003.

Compliance status of the conditions laid down by MoEF is furnished below.

A. SPECIFIC CONDITIONS:

Stipulations	Compliance Status as on 01.07.17
The company shall ensure strict implementation <i>I</i> compliance of the terms and conditions mentioned vide Ministry's letters No. J-11011/43/96-IA. II(I) dated 23.11.96 (DHDS) and J-11011/35/2000-IA.II (I) dated 30.3.2001(RDS).	The terms and conditions mentioned in the letters have been implemented.
The company shall ensure that the total SO ₂ emission from the Gujarat Refinery (including MS Quality Improvement Project) shall not exceed 982 Kg/Hr. Data on VOC should be monitored and submitted to the Ministry.	Presently, 59 stacks exist at Gujarat Refinery. Total SO2 emissions from all these stacks remain in the range of 300-350 kg/hr for the period of Jan 2017 to Jun 2017. Hence, it is complied.
capacity of 1500 M3/Hr. The total quality of effluent generation should not exceed 1152 M3/hr as indicated in the EMP of discharged which 65 M3/Hr treated effluent should be recycled and rest should be discharged after primary, secondary and tertiary treatment into	capacity of 1500 M3/Hr. Effluent generation does not exceed 1152 M3/hr for the period Jan 2017 to June 2017. Treated effluent recycled to Refinery operations and the remaining treated effluent is discharged via
	The company shall ensure strict implementation / compliance of the terms and conditions mentioned vide Ministry's letters No. J-11011/43/96-IA. II(I) dated 23.11.96 (DHDS) and J-11011/35/2000-IA. II (I) dated 30.3.2001(RDS). The company shall ensure that the total SO ₂ emission from the Gujarat Refinery (including MS Quality Improvement Project) shall not exceed 982 Kg/Hr. Data on VOC should be monitored and submitted to the Ministry. Additional water requirement shall not exceed 106 M3/Hr. The ETP load should be within the design

	Cambay. The treated effluent should comply with the prescribed standards.	Treated effluent meets prescribed standards.
4	As reflected in the EIA / EMP, there should be no additional discharge of oily sludge due to the MS quality improvement project.	No additional oily sludge is discharged due to the MSQ project.
	The spent catalyst should be sent to supplier for metal recovery.	Spent catalyst is sent back to supplier or disposed to secured landfill.
5	Oil spill response facilities should be in place, in accordance with OISD guidelines with regard to the likely risks associated with transportation of finished products.	In case of any pipeline leakage or oil spill, adequate gully suckers are available.
	All recommendations made in the risk analysis report should be complied with during design, construction and operation stages to contain the risk with in the plant boundary.	All recommendations made in the risk analysis report have been taken care during design, construction and operation stages to contain the risk within the plant boundary.
6	Green belt of adequate width and density should be provided to mitigate the effects of fugitive emission all around the plant in consultation with the local DFO.	
	The bio-sludge should be used as manure in the green belt development.	Bio-sludge is used as manure in the green belt.
7	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act and the West Bengal Factories Rules.	Full-fledged Occupational Centre is in operation since 1993. Occupational

B. GENERAL CONDITIONS:

S. N.	Stipulations	Compliance status as on 01.07.17
1	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board and the State Government.	Indian Oil Gujarat Refinery strictly adheres to the stipulations made by the Gujarat Pollution Control Board and the State Government.
2	No further expansion or modernization in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	No further expansion or modernization in the plant is carried out without prior approval of the Ministry of Environment and Forests.
3	The company shall implement all recommendations made in the EMP and risk Analysis reports.	All recommendations made in the EMP and risk analysis reports have been implemented.
4	At no time, the emissions should go beyond the prescribed standards.	Emission standards are prescribed by both CPCB and GPCB. Since, GPCB

		guidelines are more stringent, GPCB guidelines are followed.
	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.	There is no such automated pollution control device in any unit at Gujarat Refinery. Hence, it is not applicable in the present scenario.
5	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures	Noise level is regularly monitored at plant and boundary areas. It is within prescribed standard of 85 dB.
	etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules 1989 viz. dBA (day time) and 70 dBA (night time).	Data is enclosed as Annexure-I
6	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended in 1994 and 2000. Prior approvals from Chief Inspectorate etc. must be obtained.	CCE approval already obtained. Approval has also been taken from Chief Inspector of Factories.
7	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, 1994 and 2000.	Indian Oil Gujarat Refinery complies with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 1994 and 2000.
	Authorization from the State Pollution Control Board must be obtained for collections / treatment / storage / disposal of hazardous wastes.	Authorization from GPCB is already obtained.
8	The project authorities will provide adequate funds both recurring and non-recurring 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.	implementation of the conditions stipulated by MoEF.
	The funds so provided should not be diverted for any other purposes.	The funds are not diverted for any other purposes.
9	The stipulated conditions will be monitored by the Regional of this Ministry at Bhopal / Central Pollution Control Board / State Pollution Control Board. A six monthly compliance report and the	to MoEF, Bhopal.
	monitored data should be submitted to them regularly.	
10	The project proponent should inform the public	Information regarding EC was

	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 of Environment and Forests at http:/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.	published in two newspapers in 23 rd July 2003. Same had been informed to MoEF vide letter No.TS/EP/MoEF/2003/3 dtd 24.07.03
11	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 commencing the land development work.	Date of Capitalization: 31.10.2006

SUB: Compliance status of stipulations put by MoEF while according Environmental Clearance for GT-6/HRSG-6 project at Gujarat Refinery.

Ref: MoEF Letter No. J-11011/49/2015-IA-II (I) Dated 22.06.2015.

Compliance status of the conditions laid down by MoEF is furnished below.

A. SPECIFIC CONDITIONS:

Sr. No	Stipulations	Compliance Status (01.07.17)
1.	a) The gaseous emissions from the additional GT-6/HRSG-6 shall be dispersed through stack of adequate height as per CPCB/GPCB guidelines.	a) The gaseous emissions from GT-6 is dispersed through a stack of 60 mts height as per CPCB/GPCB guidelines.
	b) The stack emissions from various units shall conform to the standards prescribed under the Environment (Protection) Act.	b) The stack emissions conform to standards prescribed under Environment(Protection) Act.
		c) The emission levels remain within stipulated standards during normal operation of the plant.
	c) At no time, the emission levels shall go beyond the stipulated standards.	d) The unit has not adopted any pollution

	d) In the event of failure of pollution control systems adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency of the pollution control device has been achieved.	applicable		
2.	Additional fresh water requirement from Mahi River should not exceed 20 m3/hr.			sumption for the July 2015 is as
		SR No.	Months	Intake from Mahi river (m³/hr)
		1	May'2015	2617
		2	Jun'2015	2400
		. 3	Jul'2015	2153
		in July compared		
		freshwate range of	er consumption 1900-2100 m	
3.	Additional industrial effluent generation should not exceed 16 m3/hr. Additional effluent shall be			on for the period 5 is as follows:
	treated in the CETP of Refinery.	Sr No.	Months	Effluent Genera (M ³ /hr)
		1	May'2015	1119
		2	Jun'2015	1126
		3	Jul'2015	1120
		6(22.06.2	2015) the on remains t	missioning of GT- industrial effluent he same. So, it is
			Jun 2017 is	or the period Jan in the range 1000-
4.	monitoring devices) for flow measurement and relevant pollutants in the tertiary system to be installed.	l pH ,Oil, tertiary s	BOD,TSS i	of COD, TOC, flow, is available in the
	b) The data to be made available to the respective SPCB and in the Company's website.	with GP0		Oil, BOD, TSS ver has been 16.

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5.	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	
		Recommendations in disaster management plan like maintenance of ERDMP Records, roles & responsibilities of Functionaries of Onsite Emergency Plan etc. and safety guidelines have been implemented.

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B. GENERAL CONDITIONS:

Sr. No.	Stipulations	Compliance Status (01.07.2017)
1.	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and any other statutory authority.	Gujarat Refinery strictly adheres to the stipulations made by the Gujarat Pollution Control Board w ith respect to air, water, and hazardous waste.
2.	No further expansion or modernization in the plant should be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations 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.	We have applied to MoEF, New Delhi for installation and commissioning of upcoming BS-IV and BS-VI Project. No work shall be taken up till the Environment Clearance is obtained. So it is complied that no further expansion or modernization in the plant is carried out without prior approval of the Ministry of Environment and Forests.
3.	a)The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 2000 as amended subsequently.	a) Gujarat Refinery strictly complies with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 2000.
	b)Prior approvals from Chief Inspectorate of factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable	 b) Relevant approvals from Chief Inspectorate of factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. has been obtained. A copy of factory license is attached as Annexure II.
		Safety Report and Disaster Management Plan is sent to Chief Inspectorate of Factories.
4.	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures	and at periphery of the Refinery. Outside the plant it remains around 85 dBA. Within

	etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules 1989 viz. dBA (day time) and 70 dBA (night time).	dBA. In that cases, ear plugs and ear muffs are compulsory for all the working personnels for maintaining noise level below 85 dBA.
5.	A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Data enclosed as Annexure I. A separate Environmental Management Cell consisting of 13 officers(1 General Manager, 1 Deputy General Manager, 1 Chief Manager, 2 Senior manager, 1 Manager, 2 Deputy Manager, 2 Assistant Manager, 3 Process Engineers.
		A full fledged NABL accredited laboratory with a separate environment section exists at Gujarat Refinery.
6.	a) 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 alongwith the implementation schedule for all the conditions stipulated therein.	a) Adequate funds are available for implementation of the conditions stipulated by MoEF.
	b) The funds so provided shall not be diverted for any other purposes.	b) This is ensured that these funds are not diverted for any other purposes
7.	a) The Regional Office of this Ministry/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions.	 a) Monthly reports containing water cess, treated effluent quality and stack reports is sent to GPCB. Last monthly report to GPCB was sent on 06.06.2017
	b) A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	MoEF, Bhopal.
8.	a) 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.	Panchayat on 26 th Aug, 2015. The same has been attached as Annexure III.

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	b) The clearance letter shall also be put on the website of the company by the proponent.	b) Clearance letter was put up on Gujarat Refinery website (Sabarmati) on 2 nd Jul' 2015. The screenshot of the same is enclosed as Annexure IV.
9.	a) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of the monitored data on their website and shall update the same periodically.	a) The EC compliance report is regularly updated on the Company Website.
	b) It shall simultaneously be sent to the Regional Office of the MoEF, the respective	b) EC compliance report is sent to MoEF, Bhopal.
	Zonal Office of CPCB and the SPCB.	Last EC Compliance report was sent to MoEF, Bhopal on Jan 2017
	c) The criteria pollutant levels namely PM10, PM2.5, SO2, NOx, HC (Methane & Non- methane), VOCs (ambient levels as well as	c) Real-time monitoring and manual monitoring of stack emissions and ambient air quality is done on regular basis.
	stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the	Manual monitoring on monthly basis is done by third party M/S Maxwell Engineers.
	main gate of the company in the public domain.	SO2 and NOx emissions are also continuously displayed at the Refinery Gate Main entrance.
10	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.	Bhopal in Jan, 2017.
11	year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution	year is submitted to GPCB, Gandhinagar with a copy to GPCB Regional Office.
	Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the	19 th Sep, 2016.
	status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by email.	Company's website.
	2. a) The project proponent should inform the	a) Information regarding EC was published

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	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	in two newspapers i.e. English newspaper and Gujrati newspaper on 7 th July 2015.
	and may also be seen at Website of the Ministry of Environment and Forests at http:/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.	
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SUB: Compliance status of stipulations put by MoEF while according Environmental Clearance for BS-IV and BS-VI project at Gujarat Refinery.

Ref: MoEF Letter No. J-11011/96/2015-IA-II (I) Dated 20.03.2017.

Compliance status of the conditions laid down by MoEF is furnished below.

A. SPECIFIC CONDITIONS:

Sr. No	Stipulations	Compliance Status (01.07.17)	
1.	All Pollution control and monitoring equipments shall be installed, tested and interlocked with the process, SPCB shall grant 'consent to Operate' after ensuring that all the mentioned pollution control equipments, construction of storm water drain, rain water harvesting structure, Green belt, uploading of compliance report on the website etc have been implemented.	 Gujarat Refinery will apply for Consent to Operate. It will be ensured that all pollution control and monitoring equipments are installed, tested and interlocked with the process. Storm water drain and rainwater harvesting structures already exist at Gujarat Refinery. 3 fully developed green belts exist at Gujarat Refinery. Dense plantation will be carried out in our headworks area. 	

		Compliance report is regularly updated on GPCB Website.
2.	SO2 emissions a fter expansion from the plant shall not exceed 900 kg/day and further efforts shall be made for reduction of SO ₂ load through use of low sulphur fuel. Sulphur recovery units shall be installed for control of H2S emissions.	As per EAC meeting, SO2 emissions was limited to 900 kg/hr for Gujarat Refinery. Due to typographical error, this has come in EC as 900 kg/day. Gujarat Refinery has already applied for correction of the same. For the period Jan 2017 to Jun 2017, SO2 emissions remain in the range 300-350 kg/hr.
		Reduction of SO2 load is being achieved using low sulphur fuel. Sulphur recovery units are already in place to control H2S emissions.
3.	Ambient air quality data shall be collected as per NAAEQS standards notified by the Ministry vide G.S.R. No. 826(E) dated 16^{th} September,2009. The Levels of PM ₁₀ , PM _{2.5} , SO ₂ , NOx, VOC and Co shall be monitored in the ambient air emissions from the stacks and displayed at a convenient location near the main gate of the company and at important public places. The	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. no. 826(E) dated 16 th November, 2009 are being followed at Gujarat Refinery. Real-time monitoring and manual monitoring of stack emissions and
	company shall upload the result of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective zonal office of CPCB and the state pollution Control Board (SPCB).	ambient air quality is done on regular basis. Manual monitoring on monthly basis is done by third party M/S Maxwell Engineers.
		SO2 and NOx emissions are also continuously displayed at the Refinery Gate Main entrance.
		Monitoring report is regularly updated in the company website.
		Stack monitoring report is sent to GPCB, Gandhinagar on monthly basis. Last stack monitoring report sent on 06.06.2017
4.	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, Closed	emissions from vulnerable sources have been provided.
	handling & conveyance of chemicals/materials multi cyclone separator and water sprinkling system. Dust suppression system including water	All floating roof tanks are provided with primary and secondary seal.

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	sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the SPCB.	All the pumps are having single mechanical seal and all class A product pumps are provided with double mechanical seals to prevent VOC Emissions. Gas detectors in all process units and tank farm area are present to detect gas leakage at minimum concentrations. In addition to this, VOC emissions are
5.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollutions.	monitored by VOC LDAR Programme. DG sets are not available at Gujarat Refinery. Hence, the condition is not applicable.
6.	The total fresh water requirement from Mahi River shall not exceed 60.07 MLD and prior permissions shall be obtained from the Competent Authority. No ground water shall be used without permission.	Total freshwater requirement from Mahi River will remain within 60.07 MLD. No additional groundwater will be used without prior permission
7.	Waste water shall be sent to CETP and balanced quantity of treated effluent shall be discharge to Vadodara Enviro Channel Ltd. (VECL) which is finally discharged into Gulf of Khambat.	Wastewater from all process units are sent to CETP. Treated water from CETP is maximized in refinery operations. Remaining treated effluent is discharged to VECL.
8.	Automatic/online monitoring system (24 X 7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website.	 a) Online monitoring system for flow measurement and relevant pollutants in the treatment system is already installed. b) Connectivity of online analyzers for the relevant parameters with GPCB/CPCB server has been completed by May '2016.
9.	Adequate odour management plan and its mitigation measure to be implemented on priority.	VOC LDAR Programme and Work
10	. Regular VOC monitoring to be done at vulnerable points.	VOC LDAR Programme is being carried out by M/s. Ecotech Instruments for 14000 points per year. VOC Monitoring is done on regular basis.
11	. The oily sludge shall be subjected to melting pit for oily recovery and the residue shall be bio- remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	The oily sludge is subjected to melting pit and oil recovery is done by M/s.

		The sludge is stored in HDPE lined pit.	
12.	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC, from the report to be implemented for conservation scheme.	After completion of the project, water audit will be carried out and report will be sent accordingly.	
13.	Oil catchers / oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	Oil catchers are provided at strategic locations in rain/storm water drainage system to prevent the possibility of oil contamination in storm water channel	
14.	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.	Hazardous chemicals are stored in tanks, drums. Solvent transfer is being done by pumps in the process units.	
15.	The company shall Strictly comply with the rules and guidelines under Manufacture, Storage and import of Hazardous Chemicals (MSIHC) Rule, 1989 as amended time to time. All Transportation of Hazardous chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	d Storage and import of Hazardou e, Chemicals (MSIHC) Rule, 1989 and II being followed.	
16.	The unit shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	Being followed at Gujarat Refinery.	
17.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of workers are being done on regular basis and records are being maintained as per the Factories Act.	
18.	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ECS) based on local needs and action plan with financial and physical breakup details shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.	Refinery Headquarters for waiving of the mandatory funds towards Enterprise Social Commitment(ECS) for all the IOCL Refineries vide Ref No. MOEFCC Corr/2017-18/1 dated 19.06.2017.	
19	All the commitments made during the public Hearing/public Consultation meeting held or 5.11.2016 should be satisfactorily implemented and adequate budget provision should be made accordingly.	Hearing meeting held on 05.11.2016 is being implemented.	

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20.	As proposed, green belt over 70 acres area shall be developed at Refinery Township area and dense plantation of around 21 acres shall be undertaken at Head works area. Selection of plant species shall be as per the CPCB guidelines in consultations with the DFO. Existing Green belt of 148 acres shall be maintained around the periphery of Refinery with a total of about 2,15,000 trees in the green belt.	township. Additional dense plantation of 21 acres planned at headworks area. Existing green belt of 148 acres is being maintained.
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B. GENERAL CONDITIONS:

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Sr. No.	Stipulations	Compliance Status (01.07.2017)	
1.	The project authorities must strictly adhere to the stipulations made by the state Pollution control Board (SPCB), State Government and any other statutory authority.	Gujarat Refinery strictly adheres to the stipulations made by the Gujarat Pollution Control Board with respect to air, water, and hazardous waste.	
2.	No further expansion of modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to access the adequacy of conditions imposed and to add additional environment protection measure required, if any.	Delhi for installation and commissioning of any upcoming Project. No work shall be taken up till the Environment Clearance is obtained. So it is complied that no further expansion or modernization in the plant is f carried out without prior approval of the Ministry of Environment and Forests.	
3.	The locations of ambient air quality monitoring stations shall be decided in consultation with the state pollution control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Presently 7 ambient air quality monitoring stations have been installed out of which 6 stations are surrounding the refinery and one monitoring station is in the Vadodara City. The monitoring station in the city was recommended by Gujarat Pollution Control Board(GPCB).	
4.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. no. 826(E) dated 16 th November, 2009 shall be followed.	Standards issued by the Ministry vide	
5.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers,	Noise level is regularly monitored at plant and at periphery of the Refinery. Outside the plant it remains around 85 dBA. Within	

	enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	dBA. In that cases, ear plugs and ear muffs are compulsory for all the working personnels for maintaining noise level below 85 dBA. Data provided as Annexure I	
6.	roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.		
7.	shall be used so as to conserve		
8.	The company shall also comply with all the environmental protection measure and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Gujarat Refinery strictly adheres to all the environmental protection measure and safeguards proposed in the documents submitted to the Ministry. All recommendations made in the EMP and risk analysis reports have been implemented.	
9.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	involving local villages and administration. For the year 2016-17, funds estimated for	
10.	The company shall undertake co- developmental measures including community welfare measure in the project area for the overall improvement of the environment.		
11.	A Separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental Management and Monitoring functions.	Cell consisting of 13 officers(1 Chief	

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		Assistant Manager, 4 Process Engineers.
		A full fledged NABL accredited laboratory with a separate environment section exists at Gujarat Refinery.
12.	The company shall earmark sufficient funds towards capital coast and recurring cost per annum 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 condition stipulated herein. The funds so earmarked for	a) Adequate funds are available for implementation of the conditions stipulated by MoEF.b) This is ensured that these funds are not divinted for any other purpage.
	environment management/ pollution control measures shall not be diverted for any other purpose.	diverted for any other purposes
13.	A copy of the clearness letter shall be sent by the project proponent to concerned Panchayat, Zilaparisad/Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal.	A copy of EC letter has been sent to Gram Panchayats on 15.04.2017. Attached as Annexure V.
14.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and concerned SPCB. A copy of environmental clearance and six monthly compliance status reports shall be posted on the website of the company.	 a) Six monthly reports are submitted to MoEF, Bhopal. Last report submitted on 5th Jan, 2017. The Environment Clearance and EC compliance report is uploaded on the Company Website.
15.	The environmental statement for each financial year ending 31 st March in Form – V as is mandated shall be submitted to the concerned State Pollution control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of MoEF by e-	 a) Environmental Statement for each financial year is submitted to Gujarat Pollution Control Board. Last Environment Statement for financial year 2015-16 was submitted to GPCB on 19th September, 2016.
	mail.	b) Environment Statement is regularly updated on Company Website

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16.	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/ committee and may also be seen at website of the Ministry at <u>http://moef.nic.in</u> . This shall 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 shall be forwarded to the concerned Regional Office of the Ministry.	two newspapers i.e. English newspaper and Gujrati newspaper on 5 th April 2017 and 6 th April 2017 respectively. Attached as Annexure VI.
17.	The 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 date of start of the project.	the project

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NOISE MONITORING REPORT

S	location	Noise level		
NO		,	9.30 AM	9.30 PM
1	INSIDE MAIN GATE	Time office	67.1	58.0
2	WATCH TOWER 12	B/H CGP	58.8	58.5
3	RO PLANT SITE- OUTER GATE	KOYALI Side	62.8	62.6
4	WATCH TOWER 2	Nr Dhola Kuva	62.0	62.3
5	WATCH TOWER 3	Opp Crude Tank 901	52.6	51.7
6	BITUMEN GATE	Opp CISF Pt	63.5	57.5
7	WATCH TOWER 6	IPCL Common Border	64.4	59.0
8	WATCH TOWER 9	Nr TTL Office	56.5	52.1
9	MKT GATE	Nr CISF Pt	66.1	51.7
10	SOUTHERN RLY GATE	-Do-	52.0	50.4





Directorate Industrial Safety & Health Gujarat State

FORM NO. 4 (Prescribed under Rule 5) License to work a factory

Registration No. **1891/60300/1965** FIN. **B05015648A** License No. 15648 D.A. 18-Aug 1965

License is hereby granted to

Mr. SUDHIR KUMAR

For the premises known as

INDIAN OIL CORPORATION LIMITED (REFINERIES DIVISION)

situated at

P.O. JAWAHARNAGAR VADODARA

Ta.: Vadodara Dist.: Vadodara

for use as a factory within the limits specified in the plan approved by the

Joint Director Industrial Safety and Health, Baroda Region

vide No. 1359 Date 31-Dec-2009 subject to provisions of the

Factories Act, 1948 and the Rules made thereunder.

The license is issued for:

Maximum Number of workers to be employed on any day during the Year :** Above 5000** Maximum installed power in B.H.P. on any day during the year :** Above 5000**

The license is valid up to 31st December 2018,

Fees paid Rs. 100.00 Fees due Rs. 100.00 Excess Rs. 0.00 Place : Baroda Date : 20-Apr-2017

170357

Joint Director Industrial Safety and Health Baroda Region

रिफाइनरीज़ प्रभाग ः	इंडियन ऑयल कॉपोरेशन लिमिटेड रिफ़ाइनरीज़ प्रभाग : गुजरात रिफ़ाइनरी, डाकघर : जवाहरनगर, जिला - वडोदरा, गुजरात - 391 320. Indian Oil Corporation Limited Refinerles Division : Gujarat Refinery, P.O. Jawaharnagar, Dist. : Vadodara, Gujarat - 391 320. Website : www.iocl.com	indianOli
સરપંચ		
ગ્રામ પંચાયત		
ગામ		

તા. જી. વડોદરા

વિષય : પર્યાવરણ શુદ્ધતા બાબત ભારત સરકાર દ્વારા પ્રસિદ્ધ કરેલ પરિપત્ર.

મે. સાઢેબ

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ઉપરોક્ત વિષય બાબત જયભારત સફ જણાવવાનું કે ભારત સરકાર દ્વારા પ્રસિદ્ધ કરેલ પરિપત્ર ન. એફ.નં.જે-૧૧૦૧૧૮૪૯/૨૦૧૫-આઇએ-।। (i), પર્યાવરણ, જંગલ અને ફવામાન ફેરફાર મંત્રાલય, (આઇ.એ.ડિવિજન), ન્યુ દિલ્હી નું આ પત્ર સાથે બિડેલ છે જે તમારા જાણ સારું.

આભાર સફ.

આપનો વિશ્વાસુ આઇઓસીએલ,ગુજરાત રિફાઇનરી વતી

(વિ. કે. કનોજીયા)

ચીફ મેનેજર (સી.એસ.આર.) ગુજરાત રિફાઇનરી, વડોદરા

Karachiya

Undera

Kandiya Magadh Fojelpun

Koyan Bajnwa or

બિડાણ : પરિપત્ર ન. એફ.નં.જે-૧૧૦૧૧/૪૯/૨૦૧૫-આઇએ-II (i), તા. ૨૨.૦૬.૨૦૧૫ ની નકલ સામેલ છે. Sherakm'

નકલ રવાના : 1. એસ.ડી.એમ. વડોદરા (ગ્રામ્થ)

- 2. કલેક્ટર, વડોદરા
- 3. મામલતદાર (રૂરલ),વડોદરા

पंजीकृत कार्यालय ः जी-9, अली यावर जंग मार्ग, बान्दा (पूर्व) मुम्बई - 400 051. Regd. Office : G-9, Ali Yavar Jung Marg, Bandra (East) MUMBAI - 400 051. ujarat Refinery(Sabar... 🗴 👹 Refineries Division Home ...







Firmament

आकाश



"Seek for the highest, aim at the highest, and you shall reach the highest."

by: Swami Vivekananda



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Safety Theme for the Month July,2015

Importance of SOP



रिफाइनरीज प्रभाग

Refineries Division

इंडियन ऑयल कॉर्पोरेशन लिमिटेड गुमात रिफायरी, डालपा जवाहरगथ, जिला - वहोदा, गुमरात - 391 320.

Indian Oil Corporation Limited Gujarat Refinery, P.O. Jawahamagax, Dist. Vadodara, Gujarat - 391 320.



दूरभाष : +91-265-2237106 मैंकेस : 91-265-2233326 ई-मेल : qujaratrefinery@fociano?Lin केस्साइट : www.iocl.com

BY REGISTRED AD POST

No.JR/Admn./CSR/2017

Date: 15.04.2017

સરપચશ્રી,

Bajwa, Koyali, Karachiya, Undera, Karodiya Aanagad, Ganpatpura, Mahapura, Rayaka, Asaram, Sokhada, Nandesari, Ankodiya, Sindhrot, Hathipura, Khanpur, Fajalpur, Sherkhi

વિષય : BS-IV અને BS-VI પ્રોજેકટ ની પ્રદૂષણ, કોરેસ્ટ અને ક્લાઇમેટ ચેંજ, નવી દિલ્લી દ્રારા પરવાનગી બાબત

આ સાથે જણાવવાનું કે ગુજરાત રિફાઇનરી ને સુસંગત એચએસડી ઉત્પાદન અને રૂપાતર કરવાનો આગામી પ્રોજેક્ટ 8ડના થી 8ડનપ અને 8ડ-પ પ્રદૂષણ, ફોરેસ્ટ અને ક્લાઇમેટ ચેંજ, નવી દિલ્લી વરા પરવાનગી મળી ગયેલ છે.

આ સાથે આપની જાણકારી હેતુ પ્રદૂષણ, ફોરેસ્ટ અને ક્લાઇમેટ ચેંજ, નવી દિલ્લી નો પરમિશન લેટર સામેલ કરેલ છે

આભાર સહ,

આપનો વિશ્વાસુ આઇઓસીએલ, ગુજરાત રિફ્રાઇનરિવતી

અસસીસ્ટ મેનેજર (એડમીન & વેલફેર)

नरेश वशहरा





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