

इंडियन ऑयल कॉपॉरेशन लिमिटेड

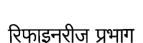
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Indian Oil Corporation Limited

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Refineries Division

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

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

S.N.	Stipulation	Compliance status as on 01.07.17
1	The total SO2 emission level from the unit after the proposed up gradation shall not exceed 940 kg/hr, which are less than the stipulated level of 982 kg/hr	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 Jan 2017 to June 2017
		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.
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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	It is ensured that no further

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:

S. N	Stipulations	Compliance Status as on 01.07.17
1	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 terms and conditions mentioned in the letters have been implemented.
2	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.
3	Additional water requirement shall not exceed 106 M3/Hr. The ETP load should be within the design capacity of 1500 M3/Hr.	Additional water requirement did not exceed 106 M3/Hr. The ETP load is within the design 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 combined effluent channel of Gujarat Industrial Development Corporation leading to Gulf of	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 VECL.

	Cambay. The treated effluent should comply with the prescribed standards.	Treated effluent meets prescribed standards.
	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.	Three Green belts are fully developed.
	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.	1 '

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 etc. on all sources of noise generation. The ambient noise levels should conform to the	Noise level is regularly monitored at plant and boundary areas. It is within prescribed standard of 85 dB. Data is enclosed as Annexure-I
	standards prescribed under EPA Rules 1989 viz. dBA (day time) and 70 dBA (night time).	
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.	·
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 monitored data should be submitted to them regularly.	to MoEF, Bhopal. Monthly reports containing water cess,
		reports is sent to or ob.
10	The project proponent should inform the public	Information regarding EC was

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	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.	

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

			tem. Hence,	it is not	
	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	101 G1-6.		
	Additional fresh water requirement from Mahi River should not exceed 20 m3/hr.		Total freshwater consumption for the period May 2015 to July 2015 is as follows:		
		SR No.	Months	Intake from Mahi river (m³/hr)	
		1	May'2015	2617	
		2	Jun'2015	2400	
		3	Jul'2015	2153	
		in July compared	2015(post (ion has decreased GT-6 Project) as 2015(pre GT-6 emplied	
_		freshwate range of	r consumption		
j.	Additional industrial effluent generation should not exceed 16 m3/hr. Additional effluent shall be				
	treated in the CETP of Refinery.	Sr No.	Months	Effluent Genera (M³/hr)	
		1	May'2015	1119	
		2	Jun'2015	1126	
		3	Jul'2015	1120	
		6(22.06.2	2015) the on remains t	imissioning of GT- industrial effluent he same. So, it is	
			Jun 2017 is	or the period Jan in the range 1000-	
ļ	a) Automatic/online monitoring system (24*7 monitoring devices) for flow measurement and relevant pollutants in the tertiary system to be installed.	pH ,Oil,	BOD,TSS	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.			Oil, BOD, TSS ver has been	

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.

B. GENERAL CONDITIONS:

Sr.	Stipulations	Compliance Status
No.		(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 with 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

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	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.
	·	Data enclosed as Annexure I.
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.	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) This is ensured that these funds are not
	b) The funds so provided shall not be diverted for any other purposes.	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.
0		a) The FC letter was sent to Commit
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.

	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. b) It shall simultaneously be sent to the Regional Office of the MoEF, the respective Zonal Office of CPCB and the SPCB. 	a) The EC compliance report is regularly updated on the Company Website. b) EC compliance report is sent to MoEF, Bhopal. 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 & Nonmethane), 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.	c) Real-time monitoring and manual monitoring of stack emissions and 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.
10.	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.	Bhopal in Jan, 2017.
		year is submitted to GPCB, Gandhinagar with a copy to GPCB Regional Office. Last Environment Statement was sent on 19 th Sep, 2016. The same has been updated on Company's website.
12		a) Information regarding EC was published

	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.	1
13.	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.	

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	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.
	convenient location near the main gate of the company and at important public places. The company shall upload the result of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to	Real-time monitoring and manual monitoring of stack emissions and ambient air quality is done on regular basis.
	the Regional office of MOEF, the respective zonal office of CPCB and the state pollution Control Board (SPCB).	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.	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 bioremediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	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.	Rules and guidelines under Manufacture, Storage and import of Hazardous Chemicals (MSIHC) Rule, 1989 are being followed. Transportation of Hazardous Chemicals are as per the Motor Vehicle Act, 1989.
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.	
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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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.

70 acres green patch is available at JR township. Additional dense plantation of 21 acres planned at headworks area. Existing green belt of 148 acres is being maintained.

B. GENERAL CONDITIONS:

Sr.	Stipulations	Compliance Status	
No.		(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.	Gujarat Refinery shall apply to MoEF, New 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 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,	and at periphery of the Refinery. Outside	

	enclosures etc., on all sources of noise	dBA. In that cases, ear plugs and ear muffs	
generation. The ambient noise levels shall conform to the standards prescribed under		are compulsory for all the working personnels for maintaining noise level below 85 dBA.	
	time).	Data provided as Annexure I	
6.	The company shall harvest rainwater from the 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.	Company has already installed 21 rainwater harvesting wells out of which 5 are rooftop harvesting wells. Additional 45 rooftop rainwater harvesting wells have been proposed inside refinery battery limit as well as township. In future, this water shall be used so as to conserve freshwater.	
7.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Training is being imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees are conducted on regular basis. Apart from this, Material Safety Datasheet(MSDS) of the chemicals is being displayed at all process units.	
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.	I I	
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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Ţ		Assistant Manager, 4 Process Engineers.
12.	The company shall earmark sufficient funds towards capital coast and recurring cost per	A full fledged NABL accredited laboratory with a separate environment section exists at Gujarat Refinery. a) Adequate funds are available for implementation of the conditions stipulated
	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 environment management/ pollution control measures shall not be diverted for any other purpose.	by MoEF. b) This is ensured that these funds are not 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.	
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

And

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 http://moef.nic.in . 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.	Information regarding EC was published in 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-	KOYALI Side	62.8	62.6
	OUTER GATE		 	
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

Industrial Safety and Health **Baroda Region**

इंडियन ऑयल कॉपॅरिशन लिमिटेड

रिफाइनरीज प्रभागः गुजरात रिफाइनरी, डाकघरः जवाहरनगर, जिला – वडोदरा, गुजरात - 391 320.

Indian Oil Corporation Limited Refinerles Division:



रिफाइनरीज़ प्रभाग :	Gujarat Refinery, P.O. Jawaharnagar, Dist. : Vadodara, Gujarat - 391 320. Website : www.iocl.com	IndianOli
Refineries Division : ન. જે.આર./એડીએમએન./પર્યાવરણ/૧૦૧૫-૧૬		૨૪.૦૮.૨૦૧૫
સરપંચ		
ગ્રામ પંચાયત		
ગામ		
તા. જી. વડોદરા		
વિષય : <u>પર્યાવરણ શુદ્ધતા બાબત</u> મે. સાફેબ	ાભારત સરકાર દ્વારા પ્રસિદ્ધ કરેલ પરિપ	<u>1.</u>
ઉપરોક્ત વિષય બાબત જયભારત સફ જણાવવાનું ૧૧૦૧૧/૪૯/૨૦૧૫-આઇએ-II(i), પર્યાવરણ, જંગ દિલ્હી નું આ પત્ર સાથે બિડેલ છે જે તમારા જાણ સ	લ અને ફવામાન ફેરફાર મંત્રાલય, (આઇ	
આભાર સ ફ,		
		આપનો વિશ્વાસુ
	આઇઓસીએલ, ગુજર	ાત રિફાઇનરી વતી
		Jan (5) (6) (6) (6) (6) (6) (6) (7)
	າໄ <i>ຣ ກ</i> ີລຸ	પલ. ક. ક્યાક્રવા) ૪૨ (સી.એસ.આ૨.)
		કર (સા.અસ.આર.) રિફાઇનરી, વડોદરા ળ્રાય્
બિડા ણ : પરિપત્ર ન. એફ.નં.જે-૧૧૦૧૧/૪૯/૨૦૧૫	-આઇએ-II (i), તા. ૨૨.૦૬.૨૦૧૫ ની ન	
		ierakhi'
નકલ રવાના : 1. એસ.ડી.એમ. વડોદરા (ગ્રામ્ય)		od ori, va crida
2. કલેક્ટર, વડોદરા	_	odrm o
3. મામલતદાર (રૂરલ),વડીદરા	<u></u>	Indera
The state of the s	K	andige

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.





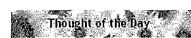
Safety in Each & Every Deed



Word of the Day

Firmament

अगनगश



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

by: Swami Vivekananda

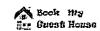
External Links







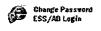


























E-procure



Accident Free Days as on Date : 125 → Fire Free Days as :

Today's Birthdays

New Releases:

- ☼ Environmental Clearance letter issued by MoEF. for GT-6/HRSG-6 project at Gujarat Refinery.
- ♦ JR Organogram 2015-16
- O Internal Customer Satisfaction Survey 2015
- ☼ Oil & Gas JoyrnalsNEW!
- 19th Refinery Technical Meet (RTM) NEW!

Circulars & Announcements:

- Conveyance Advance Additional HBA for major
- repair/renovation New SABF Forms in case of Death
- New SABF Forms in case of Superannuation
- Medical Facilities Revision of Ceilings
- Intellectual Property Rights Reward
- Revision in LTC Encashment
- Modified & certified standing orders



Employees Superannuating this Month - Singh, SELE || Mr. Suryakant Muljibhai Patel, SEA-PN || Mr. Parsottam



Development Report 2014-15



2014 - 15









Safety Theme for the Month July, 2015

Importance of SOP



इंडियन ऑयल कॉमोरेशन लिमिटेड एकाल हिमाइनी, डक्कम 'क्वाहरनगर,

बिला - बहोदरा, गुनरात - 391 320.

Indian Oil Corporation Limited

Gujarat Refinery, P.O. Jawanamagar, Dist.: Vadodara, Gujarat - 391-320.



रिफाइनरीज़ प्रभाग

Refineries Division

दूरभाष : +91-265-2237106 फ्रीन्स : 91-265-2233326

ई-मेल : gujaratrefinary@indiaro@in वैक्साइट : www.incl.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 પ્રોજેક્ટ ની પ્રદૂષણ, ફોરેસ્ટ અને ક્લાઇમેટ યેંજ, નવી દિલ્લી દ્રારા પરવાનગી બાબત

આ સાથે જણાવવાનું કે ગુજરાત રિફાઇનરી ને મુસંગત એચએસડી ઉત્પાદન અને રૂપાતર કરવાનો આગામી પ્રોજેક્ટ BSનાથી BS-IV અને BS-VI પ્રદૂષણ, ફોરેસ્ટ અને ક્લાઇમેટ ચેંજ, નવી દિલ્લી લાગ પરવાનગી મળી ગયેલ છે.

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

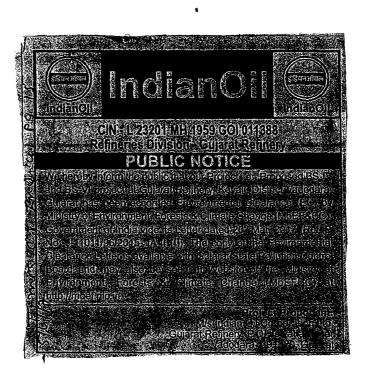
આભાર સંહ.

આપનો વિશ્વાસુ

આઇઓસીએલ, ગુજરાત ટ્રિફાઇનરિવૃતી

્યું કહે શે વાઇન્ટર્ફા

અસસીસ્ટ મેનેજર (એડમીન & વેલફેર)



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