Ref: HSE/EP/MoEF/18

1st Dec, 2018

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 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

सौमित्र रे चौधुरी SOUMITRA RAY CHOUDHURI उप महाप्रबंधक (एचएसई) Deputy General Manager (HSE) गुजरात रिफ़ाइनरी, आई.ओ.सी.एल., वडोदरा Gujarat Refinery, IOCL, Vadodara

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 30.11.18
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 320-350 kg/hr for the period May 2018 to Oct 2018. 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 May 2018 to Oct 2018. 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.	
3.2	The fresh water consumption shall not exceed the existing requirement.	Industrial freshwater consumption (including water for project jobs) for the period May 2018 to Oct 2018 is in the range of 1336-1524 m3/hr.
3.3	The additional water requirement if any shall be met through recycling of treated effluent.	
4.1	It is noted that no hazardous sludge like oily waste shall be generated.	No hazardous waste is generated due to this project.
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.	Spent catalyst consisting of metal is sold to CPCB approved metal recyclers.

S.N.	Stipulation	Compliance status as on 30.11.18
		Spent Catalyst to NECL for the period May 2018 to Oct 2018:23.75 MT
5	No further modernisation of project shall be carried out without prior permission of this Ministry	It is ensured that no further modernization of project shall be carried 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 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:

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Sr. No	Stipulations	Compliance Status (30.11.18)
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 control system. Hence, it is not applicable for GT-6.

	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	i			
;	restarted until the desired efficiency of the	1			
	pollution control device has been achieved.	·			
2.	Additional fresh water requirement from Mahi			umption for the p	eriod
	River should not exceed 20 m3/hr.	May 2015		is as follows:	
		SR No.	Months	Intake from	
			1	Mahi river	
1		, <u> </u>		(m³/hr)	1
:		1	May'2015	2617	1
		2	Jun'2015	2400	ĺ
		3	Jul'2015	2153	1
1					1 in
	·			tion has decrease Project) as compar	
				Project) as compar Project). Hence,	
		complied.	··	Projecty. Hence,	ไปเอ
		complica.			
	1	For the r	period May 2	2018 to Oct 2018,	total
				on remains in the	
			2072 m3/hr.		ange
3.	Additional industrial effluent generation should			on for the period	May
	not exceed 16 m3/hr. Additional effluent shall be		luly 2015 is a		191003
	treated in the CETP of Refinery.	Sr No.	Months	Effluent Gener	ration
	·			(M ³ /hr)	G G G G G G G G G G
			10045		
		1	May'2015	1119	
		2	Jun'2015	1126	
		3	Jul'2015	1120	
•		· ·			
		Hence	after the c	commissioning of	GT-
				industrial ef	
			•	the same. So,	
		complied.			• -
		-			
				r the period May 20	
		Oct 2018	is in the ran	nge 883-1000 m3/hr	r.
4.	, , , , , , , , , , , , , , , , , , , ,	a) Online	e monitoring	of COD, TOC, flow	w, pH
	monitoring devices) for flow measurement		D,TSS is a	available in the te	ertiary
	relevant pollutants in the tertiary system in the	system.			
	installed.				
	b) The data to be made available to the			COD, BOD, TSS	
			PCB server h	nas been completed	
	respective SPCB and in the Company's website.				
		May'2016	6. Flow has b	peen connected to C	CPCB
	respective SPCB and in the Company's website.	May'2016 server or	6. Flow has b n 04.09.2017	•.•	
5	All the recommendations mentioned in the rapid	May'2016 server or No majo	6. Flow has b n 04.09.2017 or recommen		
5.	respective SPCB and in the Company's website.	May'2016 server or No majo	6. Flow has b n 04.09.2017 or recommen	•.•	

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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 (30.11.2018)
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) Relevant approvals from Chief
	factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable	Inspectorate of factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. has been obtained. 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 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).	and at periphery of the Refinery. Outside the plant it remains around 85 dBA. Within the plant, in some areas it is higher than 85 dBA. In that cases, ear plugs and ear muffs are compulsory for all the working
		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 Chief General Manager, 1 General Manager, 1 Deputy General Manager, 1 Chief Manager, 3 Manager, 2 Assistant Manager, 4 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 05.11.2018
	b) A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	 b) Six monthly compliance report is sent to MoEF, Bhopal. Last report to MoEF, Bhopal was sent on 1st June, 2018.
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	Panchayat on 26 th Aug, 2015.
	received while processing the proposal. 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.
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	updated on the Company 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.	 b) EC compliance report is sent to MoEF, Bhopal. Last EC Compliance report was sent to MoEF, Bhopal on Jun 2018.
	c) The criteria pollutant levels namely PM10, PM2.5, SO2, 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.	 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.	Last EC compliance was sent to MoEF, Bhopal in Jun, 2018.
11.		Last Environment Statement was sent on 29 th Sep, 2018. The same has been updated on Company's website.
12		in two newspapers i.e. English newspaper and Gujrati newspaper on 7 th July 2015. Copy of the advertisement was forwarded to GPCB, Vadodara on 27 th Jul, 2015.

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	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.	
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.	Date of capitalization of GT-6: 22.06.2015

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 (30.11.18)
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 has applied for Consent to Operate. Inspection by GPCB, Vadodara was done on 30.10.2018 but the consent from GPCB, Gandhinagar is `awaited. 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 is being carried out in our headworks area. From May'2018 to Oct'2018, 3043 saplings has been planted.
		Compliance report is regularly updated on GPCB Website.
2.	SO2 emissions after expansion from the plant	Total SO2 emissions from all stacks

 shall be made for reduction of SO₂ load through use of low sulphur fuel. Sulphur recovery units shall be installed for control of H2S emissions. 3. Ambient air quality data shall be collected as per 	
 use of low sulphur fuel. Sulphur recovery units shall be installed for control of H2S emissions. Reduction of SO2 log using low sulphur fur units are already in emissions. Ambient air quality data shall be collected as per The National Ambient and the subscription of the subscription of	
 shall be installed for control of H2S emissions. Reduction of SO2 loguing low sulphur fur units are already in emissions. Ambient air quality data shall be collected as per The National Amounts and the subscript of the sub	ad is being achieved
using low sulphur fu units are already in emissions. 3. Ambient air quality data shall be collected as per The National Am	au is being achieved
units are already in emissions. 3. Ambient air quality data shall be collected as per The National Am	ol Sulphur recovery
emissions.3. Ambient air quality data shall be collected as perTheTheNationalAmbient air quality data shall be collected as perThe	
3. Ambient air quality data shall be collected as per The National Am	
	nbient Air Quality
NAAEQS standards notified by the Ministry vide Emission Standard	-
	R. no. 826(E) dated
	9 are being followed
Co shall be monitored in the ambient air at Gujarat Refinery.	le ale being lenemed
emissions from the stacks and displayed at a	
convenient location near the main gate of the Real-time monitor	ring and manual
	ack emissions and
	is done on regular
data on its website and shall update the same basis.	5
periodically. It shall simultaneously be sent to	
	on monthly basis is
zonal office of CPCB and the state pollution done by third p	oarty M/S Maxwell
Control Board (SPCB). Engineers.	
SO2 and NOx e	emissions are also
	yed at the Refinery
Gate Main entrance	9.
	regularly updated in
the company websit	te.
Stack monitoring ro	port is cont to CDCD
	port is sent to GPCB, monthly basis. Last
stack monitoring	
05.11.2018.	report sent on
4. In plant control measures for checking fugitive Control measures for	or checking fugitive
	nerable sources have
be provided. Fugitive emissions shall be been provided.	
controlled by providing closed storage, Closed	
handling & conveyance of chemicals/materials, All floating roof tank	ks are provided with
multi cyclone separator and water sprinkling primary and second	
system. Dust suppression system including water	•
sprinkling system shall be provided at loading All the pumps are h	naving single as well
and unloading areas to control dust emissions. as double mechani	ical seals to prevent
Fugitive emissions in the work zone environment, VOC Emissions.	
product, raw materials storage area etc. shall be	
regularly monitored. The emissions shall conform Gas detectors in al	I process units and
	present to detect gas
leakage at minimur	m concentrations.
In addition to this	VOC emissions are

		monitored by VOC LDAR Programme.
	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.	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. For the period May 2018 to Oct 2018, it ranges from 45.048 -49.728 MLD.
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 analysers 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 Environment Monitoring for chemicals is being carried out regularly.
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.	
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
13.	Oil catchers / oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	U

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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.	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.	Letter has been sent to ministry from 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 on 5.11.2016 should be satisfactorily implemented and adequate budget provision should be made accordingly.	Hearing meeting held on 05.11.2016
20.		township. Saplings for dense plantation is complete at Headworks area. Total no. of saplings are more than 16000.For the period May 18 to Oct 18, 3043 saplings has been planted. Existing green belt of 148 acres is being

B. GENERAL CONDITIONS:

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Sr. No.	Stipulations	Compliance Status (30.11.2018)
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.	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.
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, 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).	Noise level is regularly monitored at plant and at periphery of the Refinery. Outside the plant it remains around 85 dBA. Within the plant, in some areas it is higher than 85 dBA. In that cases, ear plugs and ear muffs are compulsory for all the working personnels for maintaining noise level below 85 dBA.
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.	rainwater harvesting wells out of which 5 are rooftop harvesting wells. Additional 57
7.	Training shall be imparted to all employees on	

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	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.	on safety and health aspects of chemicals handling. Pre-employment and routime 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.	CSR activities are done every year involving local villages and administration.
10.	The company shall undertake co- developmental measures including community welfare measure in the project area for the overall improvement of the environment.	Being followed.
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.	A separate Environmental Management Cell consisting of 13 officers(1 Chief General Manager, 1 General Manager,1 Deputy General Manager, 1 Chief Manager, 3 Manager, 2 Assistant Manager, 4 Process Engineers). A full fledged NABL accredited laboratory with a separate environment section exists
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 environment management/ pollution control measures shall not be diverted for any other purpose.	 at Gujarat Refinery. a) Adequate funds are available for implementation of the conditions stipulated by MoEF. b) This is ensured that these funds are not diverted for any other purposes

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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
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 1st June, 2018. 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 email.	 a) Environmental Statement for each financial year is submitted to Gujarat Pollution Control Board. Last Environment Statement for financial year 2017-18 was submitted to GPCB on 29th September, 2018. b) Environment Statement is regularly updated on Company Website
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.

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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.	
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AREA : TPS

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Dated : 8-5-2018

Location	Reading in dBA	
······································	10.00 AM	
TG 1	OFF	
TG 2	OFF	
TG 3	OFF	
Boiler 1	OFF	
Boiler 2	OFF	
Boiler 3	OFF	
Boiler 4	81.7	
F D Fan 4	96.7	
Compressor K 101 A	OFF	
Compressor K 101 B	93.2	
Compressor K 101 C	95.0	
Compressor K 101 D	96.1	
Comp House Control Room	61.3	

Allowable Noise level as per Factory Act : 85dB for 8 Hrs.

All readings were taken **1 METER** away from the source.

AREA : CGP-II

Dated : 8-5-2018

Location	Reading in dBA
	10.00 AM
GT 4	86.2
GT 5	87.6
GT 6	89.1
Compressor K-101 H	94.4
Compressor K-101 G	OFF
Compressor K-101 F	OFF
Compressor K-101 E	95.7
New Compressor CR	62.3
BFP-1	95.4
BFP-2	OFF
BFP-3	97.2
BFP-4	OFF
TDBFP -1 Turbo Pump	89.1
TDBFP -2 Turbo Pump	87.6

Allowable Noise level as per Factory Act : 85dB for 8 Hrs

All readings were taken 1 METER away from the source

AREA : DCU

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Dated : 25-5-2018

Location	Reading in dBA
	10.00 AM
2095-PM-08 A COKE CUTTING PUMP	OFF
2095-PM-11 A BLOW DOWN CIR OIL PUMP	94.1
2095-P-05 B HCGO PROD PUMP	91.9
2095-P-06 A HCGO PUMP AROUND PUMP	90.1
2095-P-13 B LCGO SPONGE OIL PUMP	98.6
2095-P-29 B FEED BOOSTER PUMP	89.6
2095-PM-31 B LEAN AMINE PUMP	91.0
2095 WCG (CENTRIFUGE COMP)	96.9
F-01 F D FAN 01 A	94.7
F-01 F D FAN 01 B	95.2

All readings are taken 1 Meter away from the source.

AREA : VGO HDT

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Dated : 25-5-2018

Location	Reading in dBA
	10.00 AM
2093-K-01 RGC COMPRESSOR	89.4
2093-K-02 B MUG COMPRESSOR	95.2
2093-K-02 A MUG COMPRESSOR	OFF
2093-P-13 A WASH WATER INJECTION PUMP	95.1
2093-P-07 B BOTTOM PUMP (STEAM DRIVEN)	90.4
2093-P-07 A C 03 BTM BOTTOM PUMP	OFF
2093-X-05-KM-01 A FD FAN	91.2
2093-X-05-KM-01 B FD FAN	92.2
2093-X-05-KM-02 ID FAN	86.1
2093-P-01 A CHARGE PUMP	96.5
2093-P-01 B CHARGE PUMP	OFF
2093-P-03 A LEAN AMINE PUMP	OFF
2093-P-03 B LEAN AMINE PUMP	97.4

All readings are taken 1 Meter away from the source.

AREA : SRU-III

Dated : 13-6-2018

Location	Reading in dBA
2097 A-P-03 A REGENERATOR BOTTOM PUMP	OFF
2097 A-P-03 B REGENERATOR BOTTOM PUMP	92.4
2097 A-P-01 A RICH SOLVENT PUMP	OFF
2097 A-P-01 B RICH SOLVENT PUMP	92.9
2097 B-P-01 A RICH SOLVENT PUMP	94.1
2097 B-P-01 B RICH SOLVENT PUMP	OFF
2097 B-P-03 A REGENERATOR BOTTOM PUMP	OFF
2097 B-P-03 B REGENERATOR BOTTOM PUMP	94.4
2097-P-04 C LEAN SOLVENT PUMP	95.0
2097-P-04 B LEAN SOLVENT PUMP	OFF
2097-P-04 A LEAN SOLVENT PUMP	OFF
CLAUS AIR BLOWER 2111-K-1 A (TURBINE DRIVEN)	95.7
CLAUS AIR BLOWER 2111-K-1 B (TURBINE DRIVEN)	OFF
CLAUS AIR BLOWER 2111-K-1 C (MOTOR DRIVEN)	92.5

All readings are taken 1 Meter away from the source.

AREA : ISOM

Dated : 12-6-2018

Location	Reading in dBA
	10.00 AM
2112-P-07 A NAPTH SPLITTER PUMP	OFF
2112-P-07 B NAPTH SPLITTER PUMP	89.8
2112-PM-05 A NAPTH SPLITTER-I REBOILER PUMP	92.9
2112-PM-05 B NAPTH SPLITTER-I REBOILER PUMP	OFF
2112-P-10 A NHT CHARGE PUMP	OFF
2112-P-10 B NHT CHARGE PUMP	91.4
2113-K-01 A MAKE UP GAS COMP	OFF
2113-K-01 B MAKE UP GAS COMP	88.7
2112-K-02 A NHT MAKE UP GAS COMP	90.8
2112-K-02 B NHT MAKE UP GAS COMP	OFF
NHT RGC COMP	83.2
2113-K-91 REFRIGRATION COMP	92.1

All readings are taken 1 Meter away from the source.

AREA : DHDT

Dated : 13-6-2018

Location	Reading in dBA
	10.00 AM
2091-PM-04 B STRIPPER BOTTOM PUMP	93.7
2091-PM-04 A STRIPPER BOTTOM PUMP	OFF
2091-PM-07 B HP AMINE PUMP	OFF
2091-PM-07 A HP AMINE PUMP	94.8
2091-K-02 RECYCLE GAS COMP (Steam Turbine)	90.1
2091-KM-01 A MAKE UP H2 COMP	OFF
2091-KM-01 B MAKE UP H2 COMP	95.4
2091-PM-01 A GAS OIL FEED PUMP	94.0
2091-PM-01 B GAS OIL FEED PUMP	OFF

All readings are taken 1 Meter away from the source

AREA : HGU-III

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Dated : 12-6-2018

Location	Reading in dBA
	10.00 AM
2041-PM-102 A HP BFW PUMP	OFF
2041-PM-102 B HP BFW PUMP	92.0
2041-KM-103 A 2 nd H2 RECYCLE COMP	82.3
2041-KM-103 B 2 nd H2 RECYCLE COMP	OFF
2092-KM-01B I st H2 RECYCLE COMP	OFF
2092-KM-01A I st H2 RECYCLE COMP	85.1
2041-KM-102 FLUE GAS ID FAN	83.7
2041-KM-101 COMB AIR BLOWER FD FAN	85.5

All readings were taken **1 METER** away from the source.

AREA : AU – 2

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Dated : 7-7-2018

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Location	Reading in dBA
	10.00 AM
02 - P – 206	OFF
02 - P – 2	93.0
02 - P – 2 A	99.4
02 - P – 4	OFF
02 – P - 4A	90.3
H – 9 B RCO Run down	OFF
H – 9 A RCO Run down	OFF
02 - P – 202	96.7
FURNACE F-1	87.1
FURNACE F-2	93.2
FURNACE F-3	OFF
FURNACE F-4	93.9
FURNACE F-5	OFF

All readings were taken **1 METER** away from the source.

AREA : AU-I

And a strategy

Dated : 7-7-2018

Location	Reading in dBA
	10.00 AM
01-P-103 B	95.5
01-P-102 B	OFF
01-P-102 A	97.9
01-P-2 A	OFF
01-P-2	98.3
01-P-20	OFF
01-P-20 A	OFF
01-P-20 B	97.4
FURNACE F-1	87.9
FURNACE F-2	92.3
FURNACE F-3	95.5
FURNACE F-4	95.7
FURNACE F-5	98.6

• All readings were taken **1 METER** away from the source.

AREA: AU-3

Dated : 4-7-2018

122

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Location	Reading in dBA
	10.00 AM
410-H-41A (K-1 Bottom)	OFF
410-H-41B (K-1 Bottom)	95.9
410-H-41C (K-1 Bottom)	96.7
410-H-2 (Mixed Crude Pump)	97.4
410-H-2A (Mixed Crude Pump)	OFF
410-H-2B (Mixed Crude Pump)	99.0
410-H-2C (Mixed Crude Pump)	94.5
Furnace F-3	83.1
Furnace F-1	83.3
Furnace F-2	87.6

All readings are taken 1 Meter away from the source.

AREA : GHC

A AND RECEIPTING

Dated : 03-7-2018

Location	Reading in dBA
03-PA-00-001A RCO FEED PUMP	95.0
03-PA-00-007B TEMP WATER	93.2
03-PA-00-04B HYGO PUMP	94.8
03-PA-00-017A SLOP DIST PUMP	97.1
03-PA-00-006A VR PUMP	94.0
06-KA-04C MAKE UP COMP	87.0
06-KA-04B MAKE UP COMP	86.1
06-KA-04A MAKE UP COMP	OFF
06-KA-03A SG COMP	OFF
06-KA-03B SG COMP	87.5
07-PM-0703 A BFW PUMP	91.2
07-KA-0701 ID FAN	87.3
28-KA-00-101 A	OFF
28-KA-001	OFF
N2 PLANT PANEL	

All readings were taken 1 METER away from the source.