



OIL AND NATURAL GAS CORPORATION LTD.
HAZIRA PLANT, SURAT
Office of Head HSE

"BY COURIER"

NO: HZR/HSE/Monthly Report/07-08

Dated : 11th Jan., 2008
15

To,

The Regional Officer
Gujarat Pollution Control Board
338, Belgium Square, Typical First Floor
Ring Road,
SURAT-395 003

Sub : Submission of analysis report in respect of ONGC Hazira Plant for
the month of Dec., 2007.

Sir,

Enclosed please find herewith monthly report of effluent water, ambient air
and stack emission for the month of Dec., 2007 in respect of ONGC, Hazira
Plant, Surat. This is for your kind perusal.

With regards,

Yours Sincerely,

(AK SINHA)

Chief Engineer(P)- HSE

Copy to :

1. Environmental Engineer,
GPCB, Paryavaran Bhavan
Sector - 10A,
Gandhinagar-382 010
2. Member Secretary,
CPCB
Ministry of Environment & Forest
Govt. of India, Parivesh Bhavan,
East Arjun Nagar, Shahadra
Delhi - 110 032



OIL AND NATURAL GAS CORPORATION LIMITED
HAZIRA PLANT, SURAT

HSE SECTION

No. HZR/ISO/EMS/LR/GPCB/MONTHLY REPORT

December, 2007

AA) AMBIENT AIR QUALITY MONITORING REPORT (AVERAGE FIGURES)

PARAMETERS	SO ₂ ($\mu\text{g}/\text{Nm}^3$)	Nox ($\mu\text{g}/\text{Nm}^3$)	SPM ($\mu\text{g}/\text{Nm}^3$)	H ₂ S ($\mu\text{g}/\text{Nm}^3$)	HC ($\mu\text{g}/\text{Nm}^3$)
Per. Limit	120	120	500	45	160
Avg. value	7.50	10.63	37.68	16.42	BDL

BB) SRU PROCESS STACK VENT EMISSION (AVERAGE FIGURES)

PARAMETER	H ₂ S (mg/Nm^3)	NOX (mg/Nm^3)	SPM (mg/Nm^3)	SO ₂ (mg/Nm^3)
PER LIMIT	45	120	150	40
Avg. value	19.36	2.58	0.11	37.46

CC) BOILER / HEATER STACK EMISSION MONITORING
REPORT(AVERAGE FIGURES)

PARAMETER	SO ₂ (PPM)	Nox (PPM)	HC (mg/Nm^3)	SPM (mg/Nm^3)
PER LIMIT	100	50	15	150
Avg. value	43.41	4.68	12.48	2.64



GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan

Phone : 3222756, 3222095, 3222096

Gram: CLEANWATER, Fax: (079) 3232156

Website : www.gpcb.gov.in

- 4.4. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

5. GENERAL CONDITIONS: -

- 5.1 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.
- 5.2 Applicant shall also comply with the general conditions given in annexure I

6. AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 3 (c) & 5 (5))

All terms and conditions mentioned in authorization order No.643,dated .5-8-2002 issued vide letter No. HAZ/SRT/2002/1485,dated.6-8-2002 shall remain unchanged.

7. Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Supreme Court's order in W.P. No.657 of 1995 dated 14th October 2003.
8. Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emissions and solid hazardous wastes generated within the factory premises.

For and on behalf of
Gujarat Pollution Control Board

(Signature)
(R.G.SHAH)

Environmental Engineer

NO: CCA-SRT-265 /4069

Issued to:-

M/S.O.N.G.C.LTD,
HAZIRA GAS PROCESSING COMPLEX,
BHATPORE, P.O.ONGC NAGAR,
SURAT-394 518

13 FEB 2004

15. When electricity supply or water supply is disconnected in future on account of non-compliance with the GPCB norms or on account of the closure order, which may be passed by the court or by the Govt., /GPCB under any statutory provisions relating to environmental protection and prevention and control of pollution.
 - 15.1. The unit shall not use any diesel generating set or any other alternative source of energy or water tankers from outside for continuing the production activities.
 - 15.2. The unit shall pay wages to its workers regularly every month or at such shorter intervals as per the central / practice followed so far.
16. "Magnetic Flow Meters" should be installed at inlet and outlet of Effluent Treatment Plant (ETP thereafter).
17. All the chemicals and nutrients which are required to be added/dosed any where in the ETP, should be so added by using "Metering Pumps" only.
18. The pipelines connecting various equipments or sumps or tanks of ETP should be minimum in number. Loose connections of hose pipes or temporary connections will not be permitted.
19. In case of plants involving 'Bio-mass' treatment, for each addition of bio-mass time and quantity, should be recorded. The uptake rate of Oxygen of the bio-mass in the aeration basin and other parameters of biological system should be recorded, every day.
20. In case of incinerators the unit shall provide, the flow measuring devices for mother liquor, light diesel oil, air used for combustion and temperature measuring devices within incinerators at different points and scrubber. These devices should be provided outside the incinerator. The temperatures as well as flow should be recorded every day.
21. The printed log-books shall be maintained and get them certified for:-
 - 21.1. Energy/Fuel Consumption/Raw material consumption and quantity of products manufactured.
 - 21.2. Waste water/gaseous/ hazardous waste flow at inlet & outlet of E.T.P. & air pollution control measures/ incinerator.
 - 21.3. Quantity of sludge generated/ treated/ stored/ reused/ disposed off separately for each type of hazardous waste.
 - 21.4. Laboratory analysis/reports for each of the specified parameters of liquid effluents, gaseous discharge and hazardous waste sample.
22. Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the Gujarat Pollution Control Board. Regular Effluent/ emission quality monitoring should be carried out for relevant parameters and the monitored data along with the statistical analysis and interpretation should be submitted to the Gujarat Pollution Control Board on monthly basis.
23. Guard ponds of sufficient holding capacity should be provided to cope with the effluent discharge during the process disturbances. In the event of failure or non functioning of the ETP, the respective units should be immediately put out of operation and should not be restarted until the control measures are rectified to achieve the desired efficiency. Guard pond should be provided with impervious lining and stability of the ponds with respect to leakages/cracks and other factors should be ensured.
24. The ground water quality around the guard ponds and facilities of hazardous waste should be monitored on a regular basis. The monitored data should be submitted to this Board once in six months.
25. Fugitive emissions should be controlled, regularly monitored and data recorded. The monitored data should be submitted to this Board once in a month.
26.
 - 26.1. Ambient air quality monitoring stations should be set up in the downwind direction as well as at locations where maximum ground level concentrations are anticipated. These locations should be fixed in consultation with the GPCB. The number of air quality monitoring stations and frequency of monitoring should be selected on the basis of mathematical modeling to represent short term ground level concentrations, human settlements, sensitive targets etc., Stack emissions from the boiler and heater should be monitored for SO₂, NO_x, Hydrocarbon and SPM and record maintained. On line continuous stack monitoring equipments should be provided for measurement of SO₂ and NO_x.
 - 26.2. Data on ambient air quality and stack emission from boiler and heater should be submitted to this Board once in a month along with the statistical analysis and interpretation.
27. Low NO_x burners should be provided to avoid excessive formulation of NO_x. Only LSHS will be used as fuel during the critical months to ensure that SO₂ levels in the ambient air is within the norm specified.
28. On-site and off-site Emergency Plan as required under the Rules 13 and 14 of the Handling, Manufacture, Storage and Import of the Hazardous Chemicals Rules, 1989 should be prepared and approval from the Board should be obtained.
29. A community welfare scheme for improving the socio-economic environment should be worked out and report submitted to the Board and Government for review.
30. Periodical medical check up of the workers should be done and records maintained as a measures to provide occupational health service to the workers.
31. The project authorities should set up laboratory facilities for collection, analysis of samples under the supervision of competent technical personnel who will report to the Chief Executive.