



OIL AND NATURAL GAS CORPORATION LIMITED
HAZIRA PROJECT

No. HZR/OPS/HOP/CDM/1/2002-03

Date:03.09.02

From: S.K.Pandey, CE(P)
To : All concerned as per distribution list.
Sub : Meeting on Clean Development Mechanism Projects.
Ref : Note no.ONGC/CSHE/Misc./2000-2001 Dated 5 th January on Future HSE Plan

Noting

We have been reminded telephonically by the Head Environment , Corporate HSE regarding the action plan on the subject.

With reference to the above-mentioned note regarding the future activities on Health, Safety and Environmental (HSE) issues from the Head Environment Management, Corporate HSE, ONGC, Mumbai, our Hazira Plant has been conducting regular meetings at different levels on various listed points and has already been able to set up a management procedure to comply with national as well as global HSE standards through fully organized team effort. However, beyond the statutory obligations some proactive steps on controlling the carbon-dioxide emission from our system will endorse our commitment for a greener world. In present context, the CDM (Clean Development Mechanism) projects as per Kyoto Protocol need to be focused on top-most priority.

In view of the above, a meeting will be held on 5th Sep 2002 at 16.00 hrs. at Training Centre room no.3. All concerned are requested to attend the same on priority.

S.K. Pandey
(S.K.Pandey)
CE(P)

Distribution:

1. Head Operations
2. Shri Narendra Saxena, DGM(P)
3. Shri G.P.Bahuguna, Chief Chemist
4. Shri Subodh Kumar, CE(E),
5. Shri D.N.Sinha, SE(E)
6. Shri K. Radhavinod, SE(M)
7. Shri Pradeep Dugar, SE(E&T)
8. Shri B Prasad Rao, Dy SE(P)
9. Shri U.K.Chakrabarty, SE(P), SHE
10. Shri Virat Mishra, SE(P)
11. Shri T.K.Mandal, SE(P)



OIL AND NATURAL GAS CORPORATION LIMITED
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No. HZR/OPS/HOP/CDM/2/2002-03

Date:06.09.02.

From : S.K.Pandey, CE(P)
To : All concerned as per distribution list.
Sub : Minutes of Meeting on Clean Development Mechanism.
Ref : No. HZR/OPS/HOP/CDM/1/2002-03 Dated: 3rd Sep 2002

The minutes of meeting held on 05.09.02 are as under.

Participants :

1. Head Operations
2. Shri S K.Pandey, CE(P)
3. Shri G P.Bahuguna, Chief Chemist
4. Shri Subodh Kumar, CE(E),
5. Shri D.N.Sinha, SE(E)
6. Shri K. Radhavinod, SE(M)
7. Shri Pradeep Dugar, SE(E&T)
8. Shri B Prasad Rao, Dy SE(P)
9. Shri U.K.Chakrabarty, SE(P),SHE
10. Shri Virat Mishra, SE(P)
11. Shri T K Mandal, SE(P)

In view of the Corporate directive Dated 05.01.01, all issues were discussed at length.

The concept of the Clean Development Mechanism (CDM) was explained to the house. The Kyoto Protocol was also explained. The house deliberated on several possibilities on how to reduce emissions from our systems. During the brainstorming session three areas were identified where the control of emission will have a considerable impact on environment, as under:

1. Hazira plant is flaring around 40000 Sm³ /Day hydro-carbon gas. This gas is generated from the seals of various equipment, flare purge points, PSVs, flare valves of pressure control systems etc. There is a scope of H₂S also to be present in flare header because the gas and condensate is sour in nature. The house was keen on reducing the quantity of flaring in normal operation. Hence Recovery of Flare Gas was selected as an appropriate project for CDM.
2. The Gas Dehydration Units (GDU) in Hazira Plant emit some BTX (Benzene-Toluene-Xylene) from its regenerator top. The control of the emission here was an issue to be looked into.

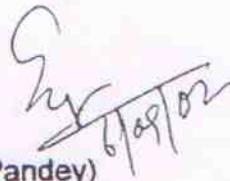


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3. There is a process emission of CO₂ from the absorbers in Sulfur Recovery Unit (SRU). The possibility of catching the CO₂ was also considered in this respect.

Already some preliminary studies on the basis of the available technology have been done regarding the above identified area. Flare Gas Recovery Project seems to be more in line with the available technology. Hence the house opined that this may be developed as a CDM Project.

As directed by Head-Operation, the concerned persons are requested to consider necessary inputs along with schedule for the execution of the Flare Gas Recovery System as a CDM project for speedy implementation of the same.


(S.K.Pandey)
CE(P)