

K C MITTAL
Managing Director

BIRLA CORPORATION LIMITED
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9/1, R. N. Mukherjee Road
Kolkata - 700 001 (India)

January 03, 2000

Mr S B Roongta
Mr D Chanda
Mr P S Marwah

Sub: Identification of Projects for Green House Gas
Abatement and CDM revenue

You may be knowing about the Kyoto Protocol and Clean Development Mechanism (CDM) initiatives for abatement of Green House Gas Emission from industries and other sources. This is a need of hour to avoid further Global Warming and it shall be becoming very important in due course of time. We should also participate in this drive by reducing direct or indirect emission of green house gases from our plants. If required, finance can be arranged from Developed countries for such projects.

In our cement plants the green house gas emission reduction can be achieved in the following ways;

- By improving the Thermal efficiency of plant.
- By improving Electrical Energy of plant.
- By changing Product Mix in cement manufacturing through appropriate blending.
- By switching from higher carbon intensity fuel to lower carbon intensity fuel.

On the basis of above and keeping objective in mind, please explore all relevant projects, which could be taken up immediately. The emission reduction shall be certified by the competent and authorized agency for getting monetary gains. A list of such projects with details should be prepared and sent to us. We shall debate on such projects and finalize for implementation on priority basis.

Regards,


(K C MITTAL)

Shri K. C. Mittal
Kolkata

Satna
January 17, 2000

Hv NBH
Pl. discuss
112
24/1

Sub: Identification of Projects for Green House Gas Abatement and CDM revenue

This has reference to your note of January 3, 2000 on above subject. We have, among ourselves discussed about various possibilities and potential of electrical power and clinker utilization reduction in both the kilns and feel we can participate in this drive.

For Satna this will require replacement or various equipment with state of the art equipment and technology. Following are the few system, which we can procure and install in our plant.

1. Replacing fixed speed drive by D.C. motors or 'Variable Voltage Variable Frequency AC drives.
2. Replacing inefficient fans by high efficiency fans.
3. Installation of Slip Power Recovery System' (SPRS) for PC fan speed control.
4. Replacing separators by high efficiency separators.
5. Replacing FK pumps by 'Dense Phase Conveying' system.
6. Reducing pressure drop across the preheater tower.
7. Installation of 3-fans system for VRM.

We have taken up specific work of identification of inefficient drives and expected savings so that the identified equipment modification / replacement could be planned under CDM project.

At Raebareli fly ash can be made available and we propose to increase addition of fly ash in PPC along with installation of a Vertical roller mill. However, looking at the CPWD prohibition on use of PPC cement, we might have a strong market sentiment to overcome to accomplish this.

Regards,


(S. B. ROONGTA)

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February 2, 2000

Mr S B Roongta
Satna

Sub: Identification of Projects for Green House Gas Abatement

This has reference to your letter of January 17, 2000 followed by various schemes for optimization of speeds of various electrical drives of Satna Units. Please start your activities for implementation of your schemes for improving energy efficiency of Satna Plant.

For Raebareli increase in fly ash content in PPC is right idea and please take up this activity immediately. Mr. D. Chanda also expresses some difficulties in marketing more quantity of PPC and increase in fly ash content. For this every one, specially marketing team has to put their best efforts to break the barriers. We are sure Government will also review the prevailing policies in line with 'Kyoto Protocol'. For installation of VRM at Raebareli we should wait for a year or so.

For CDM project we have to appoint some renowned consultants who could help in preparation of documents and guide the procedure of 'United Nations Framework Convention on Climate Change' (UNFCCC) to get recognition and possibly CDM revenue.

Regards,



(K C Mittal)