Minutes of the Meeting with respect to use of Pet Coke as an Alternate Fuel in the Boiler

The third meeting with respect to use of pet coke as an alternate fuel in the boiler was held on 09.06.2014 at MPCB Head Office. Following members were present in the meeting.

1) Shri P.K. Mirashe, Astt. Secretary (Technical), M.P.C. Board;
2) Shri V.M. Motghare, Joint Director (A.P.C.), M.P.C. Board;
3) Shri B.R. Naidu, Z.O. CPCB, Vadodara;
4) Mrs. Sumaria Abdulali,Awaj Foundation;
5) Dr. Rakesh Kumar, Head & Scientist, NEERI, Mumbai
6) Shri Rajiv Moratkar, M/s. Angadpal Industries Pvt. Ltd., MIDC, Tarapur.

Prof. Shyam Asolekar, IIT, Powai, Mumbai was not present due to his pre-occupied schedule.

The field visit report dated 20.05.2014 of the committee has been discussed. The representative of the industry Shri Rajiv Moratkar wanted some more time to explore the possibility of pre mixing of lime with pet coke at the time of supply itself and also availability and cost of online gas analyser. He has also requested the Committee to allow trial run in at least one unit with all the requisite pollution control system etc to study the performance.

Accordingly, the Committee in principal unanimously agreed that if the industry comes forward for trial run along with all requisite facilities such as scrubber, online pH Meter with hooter system including interlocking arrangement for scrubber flow pump and pH meter, then six months trial permission may be considered by MPCB. However, the cost towards implementation of the system along with online analyser etc. during trial run shall be borne by industries at their own investment risk. On the basis of outcome of the trial run further course of action may be decided.

In view of the premix of lime with pet coke the cost economics of the system will be worked out by the industry and same shall be submitted to MPCB within a week time. Shri Rajiv Moratkar, M/s. Angadpal Industries Pvt. Ltd., MIDC, Tarapur and member of the Committee shall inform the name of industry after consultation with the Tarapur Industry Association, for taking trial run to M.P.C.B. After receipt of willingness from the industry, M.P.C. Board may consider for trial run permission by imposing conditions listed in Annexure-I.

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Annexure-I

1. The boiler/furnace emissions shall conform to SO_2 standards of 400 mg/Nm^3 as laid down by the Ministry of Environment & Forests for the small boilers.
2. The industry shall provide well designed two stages de-suphurization i.e. at combustion stage and for off flue gas emissions.
3. The industry shall install dry type air pollution control device, such as cyclone/multi-cyclone followed by spray type alkali scrubber and packed bed alkali scrubber. The industry shall use only caustic soda as scrubbing media.
4. The industry shall install online monitor for SO_2 at the stack of the boiler.
5. The industry shall provide interlocking of online SO_2 monitor with the feeding system of the boiler, so as to ensure that the feeding system of fuel in the boiler should become in shut down condition, in case, the conc. of SO_2 increases beyond the prescribed standard of 400 mg/Nm^3at any time.
6. The industry shall provide online pH meter on the recirculation tank of scrubbing liquor, from where the said liquor is led to the air pollution control device and ensure that the pH of the feed scrubbing liquor should remain within the range of pH - 10 to 12.
7. The industry shall provide flow meter and pressure gauge at the outlet of the pump used to supply the scrubbing liquor to the alkali scrubber, so as to ensure that the scrubbing liquor is led to the all pollution control device at the desired rate and pressure.
8. The industry shall provide a stack of height calculated by using the formula $H=14XQ^{0.4}$ or 30 m whichever is higher.
9. The sludge produced in the recirculation tank of the scrubbing liquor shall be disposed off in an environmentally sound manner.