

## Group 3

### Points of Review for Coal Power Plant

#### ■ Air Emission and impact to ambient air quality

- ✓ Is there any relevant air emission standard for coal power plant?

Yes (Interim standards are being practiced)

- ✓ What kind of air pollutant is expected to be generated?

NO<sub>x</sub>, Sox, Particulate Matters

- ✓ Do the air emission comply to relevant standard?

Study envisaged only the ambient air quality and it has not been addressed the source emissions standards. However the dispersion model which has been done for the ambient air quality predictions does not reflect the cumulative impacts of the future coal power projects to be established in the peripheral area.

In order to over come this issue the CEB can do a study considering the cumulative impacts of air quality of the project area using a suitable model. So that the individual project proponents could adjust the operation system/raw material usage to meet the standards.

Predictions provided in the model should be assed and verified by a third party expert.

#### ■ Water

- ✓ Is there any relevant standard for coal power plant?

- ✓ What kind of effluent is expected to be generated?

Waste water (discharges from cooling system ), effluents from other activities, etc

- ✓ Do effluent including thermal discharge will comply with relevant standard?

- ✓ How to evaluate the impact from thermal discharge?

Two final discharge points have been identified for effluent discharge.

1. 200 m from the shore in Koddia Bay
2. two options for Hot water discharge
  - i 400m from the shore at a depth 13 m to Koddia bay.
  - ii. 420m from shore, at a depth of 6 m to Shell Bay

Dispersion model has been done in the EIA report. It is not clear whether the Seasonal variations and current pattern had been addressed in modeling.

■ Waste

- ✓ What is a major waste generated from Coal Power Plant?
- ✓ How Fly ash and bottom ash (Clinker ash) will be treated/disposed?
- ✓ Is the disposal method appropriate for the project site/area?
- ✓ What would be a reasonable best practice for a disposal?

Fly ash Bottom ash, waste oil, sludge from the desalinization plant  
Quantifications have not been done and only the general statements given in the report.

It is mentioned that the fly ash will be used for cement manufacturing. However the quality of the fly ash should meet the acceptable level for cement manufacturing. Control of run off and wash off of slurry have not been discussed  
Slurry disposal system has been given vaguely and no proper storage/ management system given.

■ Natural Environment

- ✓ Is there any sensitive area in and around the project site?  
Yes , in terms of biological significance.
- ✓ Is there any sensitive area in and around the project site?

Though it is a natural bay and no declaration has been done under any law.

- ✓ What kind of impact would be expected from the project?

No base-line data or mapping has been given in order to assess the impacts/impact area

Assessment of the impacts due to waste water discharge and hot water on eco system of the bay is not clear.

A depth analysis of the fauna and flora has not been given in the report. Eg Migratory routs of birds

It is not clear that the information given in the report is site specific/location specific.

- ✓ Is there any sensitive area which will be impacted by increased temperature or air pollutant?

Data on habitat distribution /biological flow etc. are not adequate to get an idea about the effect

Effects on fish breeding habitats have not been clearly addressed

- ✓ Is any scientific evaluation done in the study?
- ✓ Is reasonable mitigation measure described in the study?

■ EMP and Monitoring

- ✓ What is a major impact which should be adequately managed?

Air emissions, water quality and bottom ash

- ✓ What is a monitoring parameter which should be monitored?

Air quality standards and water quality standards.