

JBIC Checklist

REVIEW – Group A

Air Emissions

- Source of Emission
- 1. Stack Emission – from flue gas generation due to combustion of coal (Point source)
- Source/ stack emission standards SOX, NOX, PM, Smoke
- Table 2.02 Emission characteristics not match with the parameters
- Flue gas characteristics with different quality and coal quality shall be determined.
- 2. Fugitive emission from ash handling areas (area source)
- Dust extraction/suppress system, green belt are not adequate, need enclosed/ house keeping, closed transportation and continuous wetting.

- There is no room for accommodating similar plant as ambient stds already reached
- Stack height determined at the best scenario, use of bad situation analyzed.
- Impacts of Use of high speed diesel for start up – is not studied
- Carbon foot print studies not done.

Water

- 1. Discharge of Thermal Water – 93,120 m³/hour, 70c > room temp
- Need baseline data on temp variation with the depth and movements of faunal species to bay, dilution impacts of mahaweli
- Need alternative study for coastal water discharge, increase of storage capacity, Enhance cooling techniques, Heat recovery, hume pipe length

Effluent from de-sulphurification plant,
Nox removal and ash storage areas,
ESP, dust collector system
and sludge from de-mineralization plant

- No effluent treatment for removal of these
- Kottiyar bay is a marine water but important marine eco-system as NARA identified for mollusks and sea mammals, so discharge standards to be stringent than proposed.

Waste - Ash Disposal

- Bottom Ash – permanent Store in slurry form in 85 acres
- Fly ash – store temporally and allow using and residue will go for slurry disposal - contamination
- No ash/stock management
- Explore other possibilities of disposal facilities
- Baseline data on sediment and methyl mercury with sediment transportation

Natural Environment

- Kottiyar bay is a marine water but important marine eco-system as NARA identified for mollusks and sea mammals.
Shell Bay – Coral beaches
- Seruvila wildlife sanctuary, Naval sanctuary, Greater sorber island
- Breeding site for Blue whales

Social

- Resettlement plan is unknown (80 families)
- Livelihood plan altered as the resettlement done in new areas, affluent community impacts should be studied.
- New outer circular road – Sampur-Nilaveli Road
- New/change of/ lost of livelihood opportunities – to be studied.
- Flash floods as location is in a flood basin, need drainage improvement plan
- Lost of Nature/ Eco tourism potential areas – shall be studied

Recommendation

- Need data/information/studies – EIA/R is not adequate and qualitative improvement is needed.
- Linkage between other related component of this project such as jetty construction, coal storage, supply and transportation are forgotten and cumulative impacts not studied.
- Need alternative analysis