

## IMPACT ON BIODIVERSITY

**Not Applicable, since no any area from NP/WLS would be utilized for proposed project activities.**

Any unfavorable alteration in the quality of soil, water or air will lead the change in quality of habitat for plants and animals. This alteration may favor growth of some species and may reduce / eliminate others. The resilience to this change will depend on the extent of unfavorable change.

### > **Habitat Removal**

The land acquired by **Jakraya Sugar Ltd.(JSL)**, for implementing the proposed expansion of Sugar Factory, Co-gen Plant, Distillery (Based on Molasses/Cane Juice) project and proposed establishment of Synthetic Organic Chemical Manufacturing unit is located in Watwate, Tal. - Mohol, Dist.: Solapur, Maharashtra. No any land from GIB Sanctuary is being compromised/ utilized for proposed expansion project activities. Hence, there would be no any loss/reduction in GIB habitat. The study area represents ecosystem with habitat types of grassland, agriculture land, scrubs, scattered trees, and human habitations. This region is diverse in terms of species or habitat richness, this ecosystem has its own importance.

### > **Contamination of Habitats**

No any contamination of habitat will be done by JSL. JSL has implemented an effective 'Environmental Management Plan' and various aspects of the same. Under expansion of sugar factory, distillery and chemical unit total domestic effluent would be treated separately. Industrial effluent would be generated from the various industrial operations & processes in JSL complex. Details of effluents generated from existing, expansion and proposed activities in sugar factory, Co-gen plant, distillery and chemical unit are treated in well designed upgraded Effluent Treatment Plant (ETP).

**Air Emissions:** Under existing activity of sugar and co-gen factory operations, a boiler of 70 TPH capacity and 2 DG set of 625 KVA are installed on site. Boiler is provided with Wet scrubber as Air Pollution Control (APC) equipment followed by stack height of 72 M AGL. Further, under expansion activity; a new boiler of 90 TPH would be installed with 75 M height. D.G set would be operated only during power failure. Under proposed chemical unit 15 TPH boiler with wet scrubber and one DG Set would be installed.

**Noise Pollution Aspect:** Isolation, separation and insulation techniques to be followed, PPEs in the form of earmuffs, earplugs etc. would be provided to workers. D.G. Sets are enclosed in a separate canopy to reduce the noise levels.

### > **Effect on Flowers, Grass, Trees and Scrubs**

In case of proposed activities, particulate emissions and process emissions would be of concern. However, the same would be well within the limits specified by concerned authority. No significant loss to the productivity of surrounding agricultural crops is envisaged. Moreover, undertaking and implementation of greenbelt development program will bring about beneficial impact of the project on surrounding area.

➤ **Mitigation Measures**

- Proper landscaping of the project premises
- Protection of GIB habitat i.e. Grassland habitat.
- No any untreated effluent shall be let out into nearby water body or land
- The stack and production block shall be provided with APC equipment in form scrubbers.
- No ash shall be stored outside the industrial premises or disposed off in nearby grasslands.
- All developmental activities in and around the industries shall be essentially eco-friendly and sustainable for long term mutual benefits of the local people and the industry.
- Nature conservation and environmental protection activities involving local youth and local schools shall be planned on priority under industry's CSR activity.
- Activities like slide shows or expert's lectures on GIB shall be arranged for the staff to make them aware about the plant and animal species found nearby; also it will reduce unnecessary human-wild conflict. This will eventually reduce the damage to biodiversity by the employees.
- Promoting measures of energy and water conservation, wherever possible, would be adopted.
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- Activities like slide shows or expert's lectures on Local Biodiversity shall be arranged for the staff to make them aware about the plant and animal species found nearby, also it will reduce unnecessary human-wild conflict. This will eventually reduce the damage to biodiversity by the employees.