

Renewable energy can be used for pumping, lighting and other energy requirements. Consultation with and input from renewable energy developers would support the planning phase of the project to achieve cost effective renewable energy generation.

We recommend two phases for the construction of the coastal reservoir. Figure 1 shows the proposed reservoirs (phase 1 and Phase 2) along with Coastal Regulation zone (CRZ) of 500 m. Good quality water from the Netravati and Gurupura rivers can be diverted into these proposed coastal reservoirs during the monsoon months. Smaller water quantities during non-monsoon months could also be diverted after ascertaining that the quality of the water is good. In Phase 2 the proposed coastal reservoir will save the Ullal beach, which is endangered due to erosion. The length of this coastal reservoir is about 8.3 km starting from the river mouth to the South of Mangaluru Port with a width of 6 km. The coastal reservoir will not affect the built-up area. The assessment of land use in this area indicates that the built-up area is limited, while the vegetation cover is more extensive. Also, because the construction



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of the fresh water reservoir will cause a reduction in the salinity of the water, its effect on the vegetation must be pre-assessed and analyzed. The construction phase and later the maintenance of the coastal reservoir will create employment opportunities for the local people. As part of the sustainable city development plan, rehabilitation of the areas around both the

Gurupura and the Netravati River are recommended as part of the project component in order to change the existing landscape making Mangaluru an attractive, clean and beautiful water front City (see Figure 1).

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References

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- [3] Integrated Hydrological Data Book. Released by Central Water Commission 2013.
- [4] BWSSB Report (2017) Sitharam et al., "Coastal Reservoir at Mangaluru to Impound Netravati River Flood Waters – A feasibility Study in India", pp. 178.

IAHR GENERAL MEMBERS ASSEMBLY (GMA)

Venue: Lyon Convention Center “Espace Tête d’Or” France
Date: Saturday 8th September 2018
Time: 14:00

AGENDA

- 1. Opening
- 2. Approval of the Minutes of the 2017 GMA
- 3. 2017 Financial Report
- 4. Secretariat Activities Report
- 5. IAHR Governance Structure Discussion
- 6. Closure

