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## **Approvals obtained for the project**

- Approval I Sustainable Energy Authority (Provisional Approval)
- Approval II Ceylon Electricity Board (Letter Of Intent)
- Approval III Kolonna Divisional Secretary for water use approval
- Approval IV Kolonna Pradeshiya Sabha
- Approval V Clearance from National Water Supply and Drainage Board
- Approval VI Clearance from Agrarian Development Department
- Approval VII Clearance from Irrigation Department
- Approval VIII Consent letters from the private land owners

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- Annex 2 References
- Annex 3 List of prepares including their work allocation
- Annex 4 Hydrology Report
- Annex 5 NRMC guidelines for soil conservation & storm water management
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- Annex 7 Terms of Reference issued by the Central Environmental Authority

## Executive Summary

**Project Title :** Panilkanda Mini-Hydro Power Project, Panilkanda, Ullinduwawa, Ratnapura.

**Project Proponent :** Kolonna MKN Eco Power (pvt) Ltd.,

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**Project Approving Agency :** Central Environmental Authority

This is the IEE Report (Initial Environmental Examination Report) of the proposed Panilkanda Mini-Hydro Power Project of Panilkanda, Ullinduwawa, Andaradeniya, Ratnapura District, Sabaragamuwa Province. The objective of this project is to generate 1000kw electricity for national grid, using the flow from the Kudagal Dola, a tributary of Gin Ganga.

The project consists of a 10m long 1.0m high weir with a steel gate at 800.901MSL, a steel penstock of 1300m long, and a powerhouse with switchyard at 499MSL. The project has an installed capacity of 1000kw to generate 3500MW annually using the design flow of 416.7 Litr/sec from Kudagal Dola at a 300m gross head.

The main objective of the IEE Report is to assess the environmental impacts of the proposed Panilkanda Mini-Hydro Power project. It also intends to examine reasonable alternatives, and conclude that the selected location, designs, and etc were the best, technically feasible and financially viable.

Another objective of this report is to identify suitable mitigatory measures for any significant environmental impacts and moreover to suggest a monitoring programme.

The existing land use types of the area include, abandoned land, and tea planting. None of the houses will have to be removed due to this project.

The IEE Report is based on field investigations carried out covering the project area as well as its immediate environment to cover all the questions given in the Terms Of Reference



(TOR). The study paid attention to the bio-physical environment and the social economic environments of the area.

This study revealed that the proposed project has no better alternatives. The area was found to be an area that is not ecologically sensitive or prone to environmental hazards such as land slips. Moreover, there are no socio-political problems what so ever. The project will mostly use appropriate technologies and perform the construction activities in such a way as to cause only minimum environmental disturbance. The developer company officials have had many meetings with the villagers in the project area to explain about the project and obtain their cooperation and understandings.

Thus, it was found that the proposed project is unlikely to cause any significant negative impacts, rather, it will benefit the community including some temporary and permanent employees to the project.

Nevertheless, this report proposed certain measures to mitigate certain environmental impacts in spite of the fact that they are non-significant. It also proposes to have an 'Operation & Maintenance plan' as well as a definite 'monitoring plan'. The project developer will fund these plans and they will allow any nominated government agencies to inspect the premises during/after its construction.

Having taken into account the pros and cons of the proposed project, this report recommends the proposed project without any modifications.