



MadhyarangaEnergy

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JUSTIFICATION OF BHARACHUKKI – 2 X 2.5 MW MHEP

By nature of hydroelectric project, it can plan only in the river where head and discharge is available. The proposed Bharachukki – 2 X 2.5 MW MHEP will obtain head only in the forest land and require the diversion of forest land. The forest land comprises 48% of the total geographical area of the proposed project. The extent of forest land is measuring about **4.4188 Hectare** which comprises project components like Surge tank, Penstock, Power house, Tailrace, Switch yard and approach road etc.

The optimized layout of the project has minimal impact on the environment during construction and unavoidable minimum forest land requirement. The water conducting system of the project is planned as underground to minimise the forest land usage. However, only the unavoidable minimum forest land has been involved.

Land requirement break-up:

<i>Sr. No.</i>	<i>Project Component</i>	<i>Extent of land in Hectares (Forest)</i>	<i>Extent of land in Hectares (Private)</i>
1	Power house, Switchyard, Tailrace, Penstock, Fore bay and Approach road for power house.	2.3023	0.00
2	Part of Head race Canal and Transmission line	0.6765	0.00
3	Intake Structure, Head Race Canal, Staff Quarters	0.00	3.627
4	66 KV Transmission line	1.44	1.08
<i>TOTAL</i>		4.4188	4.707

Yours faithfully.

(NAGARAJU.S)

Project – Manager.