

2.0 Salient Features:

1 Location

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|------------------------------------|---|
| (i) District | - Chamoli |
| (ii) Tehsil | - Okhimath |
| (iii) Place | - Gaurikund |
| (iv) Stream | - Mandakini |
| (v) Nearest rail Head | - Rishikesh(215km) |
| (vi) Geographical Co-ordinates(PH) | - Lat- 30 ⁰ 37' N and Long-79 ⁰ 02' E |

2 Hydrology

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|-------------------------------|--------------|
| (i) Catchment Area | - 65 sq km |
| (ii) Snowbound Catchment Area | - 35 sq km |
| (iii) Maximum Flood discharge | - 334 cumecs |

3 Diversion arrangement

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|-----------------------|---|
| (i) Type of diversion | - Trench weir, 10 m long and 2.0 m wide |
| (ii) Intake structure | - Gate well type, RCC structure |
| (iii) Power duct | - RCC Box section |

4 Desilting Chamber

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|------------------------------------|-----------------------|
| (i) Size of the Desilting chamber | - 62 m x 4.0m x 6.1 m |
| (ii) Removal of Particle size upto | - 0.2 mm size |

5 Water Conductor System

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|------------------------|--------------------------------|
| (i) Type of WCS | - Free flowing D-Shaped Tunnel |
| (ii) Length | - 3.0 km long. |
| (iii) Size of Tunnel | - 1.8 m x 2.2 m |
| (iv) Maximum discharge | - 6.1 cumecs |

6 Forebay

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|-----------|--|
| (i) Type | - RCC, Circular type for 2 minutes storage |
| (ii) Size | - 13.5 m diameter and 8 m depth. |

Gaurikund Small Hydel Scheme
Pre-Feasibility Report

7 Penstock

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|-----------------------|-----------------------------------|
| (i) Type | - Surface Penstock of MS pipe. |
| (ii) Diameter of pipe | - 3 pipes of 800 mm diameter each |

8 Power house

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|--------------------------|----------------------------|
| (i) Type | - Surface, Pelton wheel |
| (ii) Maximum Gross head | - 372.10 m |
| (iii) Installed capacity | - 3 units of 6.20 MW each. |
| (iv) Energy generation | - 117.82 million units. |