

2.0 Salient Features:

1 Location

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|------------------------------------|---|
| (i) District | - Chamoli |
| (ii) Tehsil | - Okhimath |
| (iii) Place | - Phata-Byung |
| (iv) Stream | - Mandakini |
| (v) Nearest rail Head | - Rishikesh(195 km) |
| (vi) Geographical Co-ordinates(PH) | - Lat- 30 ⁰ 32' N and Long-79 ⁰ 02' E |

2 Hydrology

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|-------------------------------|--------------|
| (i) Catchment Area | - 133 sq km |
| (ii) Snowbound Catchment Area | - 65 sq km |
| (iii) Maximum Flood discharge | - 958 cumecs |

3 Diversion arrangement

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|-----------------------|--|
| (i) Type of diversion | - Trench weir, 30 m long and 3.50 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 | - 36 m x 10.0m x 4 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 | - 3.5 km long. |
| (iii) Size of Tunnel | - 1.8 m x 2.2 m |
| (iv) Maximumdischarge | - 8.0 cumecs |

6 Forebay

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| (i) Type | - RCC, Circular type for 2 minutes storage |
| (ii) Size | - 11.5 m diameter and 8 m depth |

Phata-Byung Small Hydel Scheme
Pre-Feasibility Report

7 Penstock

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|-----------------------|--------------------------------|
| (i) Type | - Surface Penstock of MS pipe. |
| (ii) Diameter of pipe | - 1400 mm diameter |

8 Power house

- | | |
|--------------------------|----------------------------|
| (i) Type | - Surface, Francis |
| (ii) Maximum Gross head | - 168.0 m |
| (iii) Installed capacity | - 3 units of 3.60 MW each. |
| (iv) Energy generation | - 72.59 million units. |