

2.0 Salient Features:

1 Location

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|--------------------------------|---|
| (i) District | - Pithoragarh |
| (ii) Tehsil | - Munsiyari |
| (iii) Place | - Near Motighat village |
| (iv) Stream | - Jimba Gad Stream |
| (v) Nearest rail Head | - Tanakpur (233 km) |
| (vi) Geographical Co-ordinates | |
| Weir | |
| Site | - Lat- 30 ⁰ 01' 30" and Long-80 ⁰ 22' 20" |
| Power house site | - Lat- 30 ⁰ 01' 35" and Long-80 ⁰ 21' 00" |

2 Hydrology

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|-------------------------------|--------------|
| (i) Catchment Area | - 95 sq km |
| (ii) Snowbound Catchment Area | - 20 sq km |
| (iii) Maximum Flood discharge | - 495 cumecs |

3 Diversion arrangement

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|-----------------------|---|
| (i) Type of diversion | - Trench weir, 15 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 | - 32 m x 6m x 3.5 m |
| (ii) Removal of Particle size upto | - 0.2 mm size |

5 Water Conductor System

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|------------------------|----------------------------|
| (i) Type of WCS | - RCC rectangular channel. |
| (ii) Length of Channel | - 1.8 km long. |
| (iii) Size of Channel | - 1.50 m x 2.0 m |
| (iv) Maximum discharge | - 4.38 cumecs |

6 Forebay

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| (i) Type | - RCC, Circular type for 2 minutes storage |
| (ii) Size | - 10 m diameter and 10 m depth. |

7 Penstock

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|-----------------------|---|
| (i) Type | - Surface Penstock of ERW pipe. |
| (ii) Diameter of pipe | - 900 mm dia, bifurcating into 600 mm dia two pipes |

Jimbagad Small Hydel Scheme
Pre-Feasibility Report

8 Power house

- | | |
|--------------------------|---------------------------------|
| (i) Type | - Surface, Pelton Wheel turbine |
| (ii) Maximum Gross head | - 222.55 m |
| (iii) Installed capacity | - 2 units of 3.85 MW each. |
| (iv) Energy generation | - 42.33 million units. |

