

2.0 Salient Features:

1 Location

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| (i) District | - Pithoragarh |
| (ii) Tehsil | - Dharchula |
| (iii) Place | - Near Baram village |
| (iv) Stream | - Goshi Gad |
| (v) Nearest rail Head | - Tanakpur(233km) |
| (vi) Geographical Co-ordinates (P.H) | - Lat- 29 ⁰ 52' 0" and Long-80 ⁰ 22' 27" |

2 Hydrology

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|--------------------------------|--------------|
| (i) Catchment Area | - 75 sq km |
| (ii) Maximum Flood discharge | - 424 cumecs |
| (iii) Snowbound Catchment Area | - 8 sq km |

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 | - 22 m x 4m x 2.75 m |
| (ii) Removal of Particle size up to | - 0.2 mm size |

5 Water Conductor System

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|------------------------|----------------------------|
| (i) Type of WCS | - RCC rectangular channel. |
| (ii) Length of Channel | - 1.6 km long. |
| (iii) Size of Channel | - 1.00 m x 1.30 m |
| (iv) Maximum discharge | - 2.00 cumecs |

6 Forebay

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| (i) Type | - RCC, Circular type for 2 minutes storage |
| (ii) Size | - 11 m diameter and 3 m depth. |

7 Penstock

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| (i) Type | - Surface Penstock of Steel pipes. |
| (ii) Diameter of pipe | - 700 mm dia, bifurcating into 500 mm dia two pipes |

Baram Small Hydel Scheme
Pre-Feasibility Report

8 Power house

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|--------------------------|----------------------------|
| (i) Type | - Surface, Francis turbine |
| (ii) Maximum Gross head | - 96.46 m |
| (iii) Installed capacity | - 2 units of 0.75 MW each. |
| (iv) Energy generation | - 8.22 million Units. |