

# BUDHIGANGA HYDROPOWER PROJECT

## MONTHLY SITE PROGRESS REPORT

|                   |                                                                         |
|-------------------|-------------------------------------------------------------------------|
| Reporting Period: | September 1, 2026 – September 30, 2026 (Bhadra 16 – Ashwin 14, 2083 BS) |
| Reporting System: | Daily Site Monitoring System (DSMS)                                     |

### 1. Executive Summary & Monthly Operational Overview

The month of September 2026 marked a major operational milestone for the Budhiganga Hydropower Project. Works significantly expanded beyond the primary camp infrastructure into the **Powerhouse Site and Batching Plant Zone**, while civil, structural, and finishing activities progressed across all secondary work fronts including the Headworks, Crusher Plant, Contractor's Camp, and Owner's Engineer Camp.

Key progress highlights:

- Powerhouse Front Expansion:** Unloading and assembly of heavy batching plant components using cranes and trucks, foundation excavation. Construction of a stone masonry wall, stone soling, and PCC for the Powerhouse Storage House.
- Camp & Office Cladding Completion:** Accelerated installation of sandwich panels, SY panel boards, and cement boards across executive offices, guest houses, and engineer residential blocks and exterior and interior partition walling.
- Industrial Zone Infrastructure:** Completion of the gabion retaining wall at the crusher hopper, casting of transformer foundation, construction of security guard watch towers, gate posts, and GI sheet walling for the control house.
- Electrification Line Extension:** Manual excavation of pole foundations, erecting timber/steel poles, and mounting insulators and tension clamps across poles to supply dedicated construction power to the Powerhouse site.

### 2. Detailed Construction Progress by Work Front

#### 2.1 Powerhouse Site & Powerhouse Batching Plant

- Heavy Machinery Unloading & Assembly:** Unloaded and positioned batching plant mechanical structures at the Powerhouse site using cranes and on September 10.
- Civil Foundation Works:** Completed layout, earthwork excavation, rebar mesh fabrication, and poured RCC for the powerhouse batching plant foundation on September 28–29.
- Storage House & Infrastructure:** Built stone masonry wall, completed stone soling, and poured Plain Cement Concrete (PCC) for the powerhouse storage facility .
- Powerhouse Engineer Camp:** Erected steel pipe columns, completed purlin loading, installed CGI sheet roofing, and poured PCC for internal floors and exterior petti walkways.

#### 2.2 Headworks, Executive Camp & Laboratory Building

- Panel Wall Cladding:** Installed sandwich panel boards daily on executive camp exterior walls and internal partition structures.
- Curing Pond & Laboratory Facilities:** Constructed masonry curing ponds at the site laboratory building, completed exterior plastering with waterproofing compound, and installed dust collection tanks.
- Structural Painting & Finishing:** Applied anti-corrosive enamel paint to structural steel frameworks, trusses, and purlins across executive and lab blocks.

## 2.3 Crusher Plant & Industrial Support Facilities

- **Security Watch Tower & Access Control:** Constructed security guard watch tower platforms, erected 4 main entrance gate posts, and completed perimeter security gate assembly.
- **Transformer & Control Foundation:** Excavated and poured transformer foundations consisting gabion masonry and PCC. Completed control house GI sheet wall cladding.
- **Hopper Retaining Structure:** Built heavy-duty gabion retaining wall at the crusher hopper area to prevent slope instability during aggregate tipping.
- **Labor Camp Amenities:** Fabricated steel bed frames and communal dining tables for labor quarters, completed GI cladding, and poured PCC for verandas.

## 2.4 Contractor's Main Camp & Meeting Facilities

- **Contractor Meeting Hall:** Finalized CGI sheet roof installation, completed stone soling, and poured internal PCC flooring.
- **Septic Tank Facilities:** Constructed stone masonry septic tank walls, installed RCC top slab formwork, and completed plumbing trenching.
- **Office & Engineer Camp:** Placed cement boards on exterior walls, completed backfilling, and constructed exterior petti steps.

## 2.5 Owner's Engineer (Army) Camp Infrastructure

- **Wall Panelization:** Completed daily of cement board installation on residential blocks, reinforced with square pipe framework.
- **Ground Leveling & Soling:** Executed of earth backfilling and laid stone soling, followed by PCC floor screeding.

## 2.6 High-Voltage Line Electrification & Power Distribution

**Line Extension:** Manually dug 10 pole foundation holes, erected electrical utility poles via tractor transport, and mounted pin insulators with tension clamps across 5 poles on September 10–11 and October 3 to energize powerhouse operations.

## 3. Quantitative Achievements & Material Consumption Grid

The table below details the cumulative physical work quantities planned versus achieved across all active work fronts during September 2026, as verified by the Owner's Engineer team:

| Work Item / Description                     | Unit  | Planned Qty | Completed Qty | Achieved % | Primary Location                       |
|---------------------------------------------|-------|-------------|---------------|------------|----------------------------------------|
| Stone Masonry Retaining & Structural Walls  | cu. m | 120.0       | 102.5         | 85.4%      | Headworks, Contractor Camp, Powerhouse |
| Gabion Wire Mesh Retaining Walls            | cu. m | 75.0        | 69.0          | 92.0%      | Crusher Hopper, Headworks, Gate Area   |
| Plain Cement Concrete (PCC) Floor/Footings  | cu. m | 85.0        | 78.5          | 92.4%      | Powerhouse Storage, Camps, Crusher     |
| Reinforced Cement Concrete (RCC) Foundation | cu. m | 4.0         | 4.0           | 100.0%     | Powerhouse Batching Plant Base         |
| Sandwich & SY Panel Board Installation      | sq. m | 350.0       | 315.0         | 90.0%      | Executive Camp, Lab, Guest House       |
| Cement Board / Prefab Board Cladding        | sq. m | 220.0       | 195.0         | 88.6%      | Owner's Engineer Camp, Office          |

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|---------------------------------------------|-------|-------|-------|--------|---------------------------------------|
| Corrugated GI Sheet Roofing & Wall Cladding | sq. m | 280.0 | 255.0 | 91.1%  | Crusher Control, Meeting Hall, Camps  |
| Stone Soling & Sub-Base Preparation         | cu. m | 110.0 | 98.0  | 89.1%  | Powerhouse Storage, Camps, Soling     |
| Earthwork Backfilling & Ground Leveling     | cu. m | 140.0 | 122.0 | 87.1%  | OE Camp, Executive Camp, Powerhouse   |
| Electric Line Pole Excavation & Erecting    | Poles | 10.0  | 10.0  | 100.0% | Construction Power Line to Powerhouse |

**Quality Control Note:** All cement, sand, stone aggregates, and SY panel boards utilized during September were verified by the Owner's Engineer for prior laboratory test approval. Unapproved material batches were prohibited from structural placement.

### 4. Resource Mobilization & Workforce Trend Analysis

Daily site mobilization fluctuated between 3 and 18 workers across active fronts, with peak deployment recorded during multi-front concrete casting and batching plant assembly. The chart below illustrates workforce deployment across the three primary work zones during September 2026:

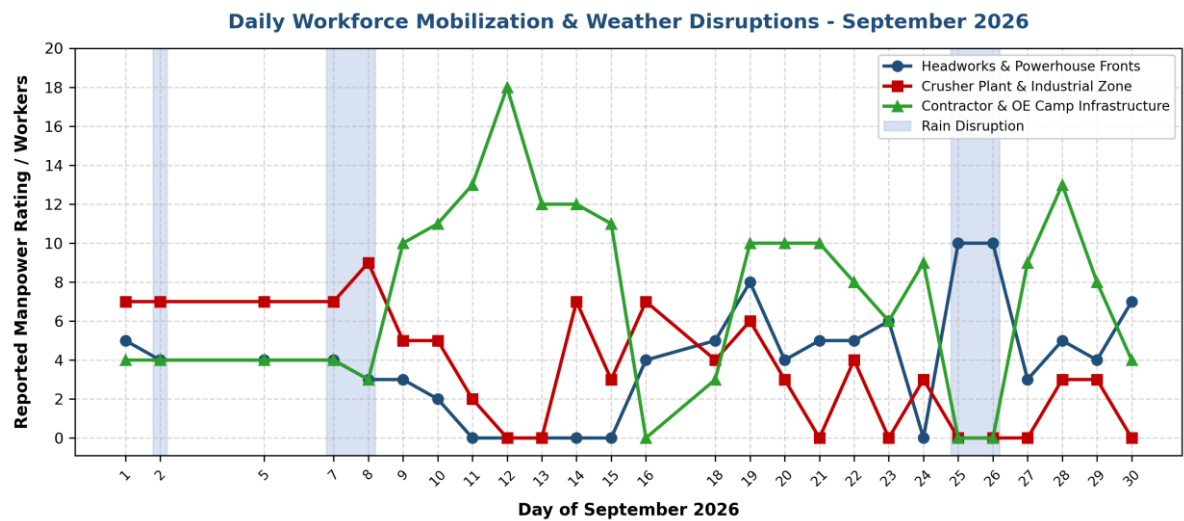


Figure 4.1: Daily Workforce Mobilization Scale & Weather Impact (September 1–30, 2026)

### 5. Project Challenges, HSE Compliance & Weather Directives

- Utility Grid Interruption:** Frequent utility grid power failures in Budabagar required continuous operation of on-site Diesel Generators (DGs) for steel welding, panel cutting, and concrete mixing.
- Occupational Health & Safety (OHS) Compliance:** Following previous site hazards, mandatory safety protocols were enforced: 100% PPE compliance (helmets, high-vis vests, steel-toe boots), high-ankle boots in overgrown areas to prevent snake encounters, and mandatory grounding for all electrical machinery.
- Labor & Social Audit Compliance:** 100% legal working age verification was strictly maintained across all sub-contractors. No underage labor was detected during random inspections by the Owner's Engineer.

## 6. Owner's Engineer Recommendations & Official Sign-off

- Increase Skilled Manpower: The contractor must increase skilled masons and steel fabricators to fulfill commitments for completing the contractor engineer camp, office, and guest house prior to the Dashain festival.
- Maintain Resident Site Supervision: The Contractor's Site Engineer must maintain 100% daily physical presence across active work fronts to prevent workmanship defects.
- Curing & Material Protection: Ensure 14-day wet curing for all RCC structures (batching plant foundation) and maintain tarpaulin covers on stockpiles during late-monsoon showers.



