NYADI PHIDI HYDROPOWER PROJECT (21.4 MW)

MONTHLY PROGRESS REPORT



Construction of Nyadi Phidi Hydropower Project (21.4 MW)

Prepared By:

North Summit Hydro Ltd.

Babarmahal, Kathmandu

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General Information

Project Name	Nyadi Phidi Hydropower Project (21.4 MW)
Project Number	
Client's Name	North Summit Hydropower Limited
Report	Monthly Progress Report
Remarks	

Preparation, Review and Authorization

Date	Prepared by	Reviewed by	Approved for Issue by
6th November 2026	Sangam Malla	Niroj Phuyal	

Institutional Arrangement

Client	North Summit Hydro Limited
Design Consultant	Hydro-Consult Engineering Limited (HCE) and Innovative Engineering Services Pvt. Ltd (IES) JV
Civil Contractor	Kalika-SAI-Karna JV
HM Contractor	Machchhapuchhre Metals and Machinery Pvt. Ltd.
EM Contractor	Flovel Energy Pvt. Ltd.

Executive Summary

The Nyadi-Phidi Hydropower Project, being developed by North Summit Hydro Limited is located in Lamjung District of Gandaki Province. The project will utilize the perennial flow of the Nyadi River for power generation. The project has secured major statutory approvals including the grid connection agreement, power purchase agreement and generation license, and has achieved financial closure. The contracts for the **civil works, hydromechanical works and electromechanical works** have been awarded to **Kalika–SAI–Karna JV, Machhapuchhre Metal and Machinery Works Pvt. Ltd. and Flovel Energy Pvt. Ltd**., respectively.

This report presents an overview of the construction activities carried out at the project site. Works across various project components are progressing in line with the planned schedule. At the **Intake** Area, the first-stage river diversion for cofferdam construction has been successfully carried out. Following the river diversion, concreting works for the under-sluice structure have commenced with the raft concrete for the first and second panels already completed. In the **Desander** Area, site clearance and excavation have been completed with masonry walls being constructed in both bays of desander.

At the **Headrace Tunnel,** inlet portal excavation has been completed and the necessary labor camp facilities have been established. Tunnel excavation is currently in progress, with 126.00 m completed to date from the Inlet Tunnel. The **Penstock Tunnel** excavation, totaling **253 m** including the required widening for the vertical shaft has been completed. 250.55 m of the **Vertical Shaft** excavation has been completed. Along the **Penstock Alignment**, excavation from Anchor Block (AB) 8 to AB 12 has been completed. The foundation excavation and concreting for Anchor Block 9 and Anchor Block 12 have been completed. Construction of Saddles have been continued from AB 8 to AB 12.

For the **Hydromechanical Works**, site workshop and camp facility have been completed. Fabrication of steel penstock pipe has been continued at Pokhara Shop. In total, 432 nos of variable sizes (2.5 m each) pipe and six bends from AB 7 to AB 12 have been transported to site workshop and welding of 411 nos of variable size (2.5m each) and AB 8, AB 9, AB 10 and AB 12 bends have been completed and welding works are currently in progress at the site.

Regarding the **Ropeway** system, the erection of all three towers have been completed. The main track rope and pulling rope have been shifted from the base station to Top anchor point and rope tensioning is also completed. **Construction Power** has been successfully extended to both the Headworks and Powerhouse area. The **Access Road** leading to the Headworks and Powerhouse has been completed and the access road towards the Outlet tunnel has been constructed up to Surge shaft. Also, the excavation for powerhouse is continued with drilling blasting.

For the **Bailey Bridge Structure**, the concreting works, rubble masonry work for protection wall on both abutments and erection of bailey bridge have been completed. In addition, the **Army Camp** infrastructure, including the superstructure and bunker facilities has been completed.

Overall, the project construction activities are progressing steadily across multiple fronts, with several key preparatory and structural works already completed and subsequent construction stages being actively pursued.

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1 Introduction

1.1 Project Description

Nyadi-Phidi Hydropower Project (NPHPP) is located in Lamjung district of Gandaki Province. The project site is located in Marshyangdi Rural Municipality. Geographically, the project area is located in between latitudes 28º24'27" - 28º26'12" N and longitudes 84º30'10" - 84º31'43" E.

The project site can be reached from Kathmandu via a 189 km paved road to Besisahar, the district headquarters of Lamjung. From Besisahar, the site is approximately 52 km further, mostly along an earthen road.

The hydropower scheme includes a 15m length boulder lined weir with a crest elevation of 2950.6 masl. The intake is located on Nyadi River near Jaluchhe village at an elevation of 2950.1 masl, capturing flow from a catchment area of 54.03 km2. The project utilizes flow of Nyadi and two downstream Kholsis during dry months and the head created by tunnel and penstock between headworks and powerhouse site to generate power.

1.2 Project Progress

A summary of the project's progress is presented in the table below.

S. N.	Description	Unit	Total Qty	Till Previous Month	This Month Progress	Completed Till Date	% Completed
A	**Infrastructure Development**						
1	Internal Approach Road						
	To Headworks	km	5.10	5.10	0.00	5.10	100%
	To Powerhouse	km	3.96	3.86	0.1	3.96	100%
	To Surge shaft	km	2.85	0.895	1.905	2.80	98.25%
2	Ropeway						
	Supply and delivery of equipment and accessories	LS	1	1	0	1	100%
	Shifting of equipment and accessories	LS	1	0.95	0	0.95	95%
	Tower erection, testing and commissioning	LS	1	0.7	0	0.7	70%
3	Construction power						
	Up to Powerhouse	LS	1	1.0	0.0	1.0	100%
	Up to Headworks	LS	1	1.0	0.0	1.0	100%
4	Army Camp						

S. N.	Description	Unit	Total Qty	Till Previous Month	This Month Progress	Completed Till Date	% Completed
	Construction of Army camp	LS	1	1.0	0.0	1.0	100%
5	Bridge						
	Excavation	LS	1	1	0	1	100%
	Superstructure	LS	1	1	0	1	100%
	Bailey bridge erection	LS	1	1	0	1	100%
B	**Civil Work**						
1	Mobilization	%	100%	100%	0%	100%	100%
	Underground works						
2	Penstock tunnel	rm	253	253.75	0.0	253.75	100%
3	Vertical Shaft Tunnel	m	255	250.55	0.0	250.55	98.25%
4	Headrace Tunnel	m	2020	126.00	41.70	167.70	8.30%
	Surface works						
5	Headworks						
a	River diversion works	LS	1	0.5	0	0.5	50%
b	Under-sluice						
	Excavation	LS	1	1	0	1	100%
	Concrete work	m3	1200	237.7	0	237.7	19.80%
c	Desander						
	Excavation	LS	1	0.85	0	0.85	85%
	Masonry work in settling zone	m3	694.33	166.75	131.17	297.92	42.91%
6	Penstock Alignment						
	Excavation CAB-8 to CAB-12	rm	0+560 to 0+800	240	0	240	
	Concrete work in Anchor block CAB-8 to CAB-12	m3	1628	596	0	596	36.61%
	Bend erection in Anchor block CAB-8 to CAB-12	No	5	2	0	2	40%
7	Powerhouse						
	Excavation	Ls	1	0.3	0.075	0.375	37.5%

S. N.	Description	Unit	Total Qty	Till Previous Month	This Month Progress	Completed Till Date	% Completed
C	**Hydromechanical Work**						
1	Mobilization	%	100%	100%	0%	100%	100%
2	Steel plate reached at Pokhara shop	Ton	1180	1180	0	1180	100%
3	Fabrication of pipe		Started from 28th Nov 2025 at Pokhara shop				

	Size (mm)	**36**	**32**	**28**	**25**	**22**	**20**	**18**	**16**	**14**	**12**	**10**	**8**
	Edge Preparation	54	132	93	18	12	12	12	18	10	7	9	50
	Rolling	54	132	93	18	12	12	12	18	10	7	9	50
	LS Welding (2.5m)	54	130	92	18	12	12	12	18	10	7	9	48
	NDT (2.5m)	53	126	92	18	12	12	12	18	10	7	6	41
	Grid blasting	52	116	92	18	12	12	12	18	10	6	5	35
	Painting	52	114	92	18	12	12	12	18	10	6	5	35
	Site Reached	54	132	93	18	12	12	12	18	12	10	9	50

D	**Electromechanical Work**					
1	Bid Submission	LS	1	1	0	1	100%
2	Contract award	LS	1	1	0	1	100%
E	**Transmission Line Work**						
1	Detail Design	LS	1	1	0	1	100%

2 Appendices

2.1 Appendix 1: Photographs



Figure 1: Stone masonry work in desander area



Figure 2: Stone masonry work between bay 1 and 2 of desander



Figure 3: Debris cleaning in Undersluice



Figure 4: Inlet tunnel face at ch 0+141.40



Figure 5: Inlet tunnel face at ch 0+153.70m



Figure 6: Rockbolt installation in Inlet tunnel



Figure 7: Shotcreting in Inlet Tunnel



Figure 8: Excavation in trench between AB 9 and AB10



Figure 9: Excavation in foundation of AB 11



Figure 10: Drilling in boulder in AB 14



Figure 11: Drilling in powerhouse area



Figure 12: Mucking in powerhouse area



Figure 13: Excavation in powerhouse area



Figure 14: Excavation of road to Surge shaft at ch 1+750m



Figure 15: Excavation of road to Outlet tunnel at ch 2+750m



Figure 16: Drilling in road to Surge shaft and Outlet tunnel



Figure 17: Erection of pipe between AB 8 and AB 9