

K.B.N.R ISUWA POWER LIMITED

Kalopul, Kathmandu, Nepal

ISUWA KHOLA HYDROPOWER PROJECT (97.2 MW)



MONTHLY PROGRESS REPORT

(June 2026)



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ABBREVIATIONS AND ACRONYMS

amsl	above mean sea level
BoQ	Bill of Quantities
COD	Commercial Operation Date
CWTW	Chongqing Water and Turbine Work Co. Pvt.
Ltd. Dia,	Diameter
D/s	Downstream
DoED	Department of Electricity
Development EIA Assessment	Environmental Impact
Ele,	Elevation
EM	Electromechanical
FDC	Flow Duration Curve
FSR	Feasibility Study Report
GoN	Government of Nepal
GWh	Giga Watt hour
HEP	Hydroelectric Project
HM	Hydro mechanical
HRT	Head Race Tunnel
HW	Head Works
IEE	Initial Environmental Examination
IPC	Interim Payment Certificate
INPS	Integrated Nepal Power System
km	Kilometers
kN	Kilo Newton
kV	Kilo Volt
m	Meter
MW	Mega Watt
MWh	Mega Watt hour
NEA	Nepal Electricity Authority
NPR	Nepalese Rupees
PH	Powerhouse
PPA	Power Purchase Agreement
RCC	Reinforced Cement Concrete
RCOD	Required Commercial Operation
Date PRoR	Peaking Run of River
Rpm	Revolution per minute
S.N.	Serial Number
IKHP	Isuwa Khola Hydropower Project
TL	Transmission Line
ToR	Terms of Reference
U/s	Upstream
VAT	Value Added Tax

1 INTRODUCTION

1.1 BACKGROUND OF THE PROJECT

Isuwa Khola Hydropower Project is a Peaking run-off-the-river type scheme located at Makalu VDC of Sankhuwasabha district of Koshi zone of Eastern Region of Nepal. Isuwa Khola is tributary of Arun River. The headwork site is located about 8 km upstream of the confluence of Isuwa Khola and Arun River. All the project components are located at the right bank.

Geographically, project is located at 27° 37' 00" N to 87° 11' 23" E and 27° 34' 03" N to 87° 14' 30" E with added co-ordinate 27° 34' 03" N to 87° 14' 00" E and 27° 32' 56" N to 87° 14' 30" E. Geographically, the project area lies in the Higher Himalayas in Eastern development region of Nepal. The land surface is somewhat rugged and rejuvenation of the river system, in the project area. Isuwa Khola flows towards south-west direction.

Isuwa Khola Hydropower project is located entirely at Makalu Rural Municipality of Sankhuwasabha District. The project is a run-off-river type situated along the Isuwa Khola. The headrace pipe alignment passes along the right bank of Isuwa Khola and powerhouse site is located on the top of a hill.

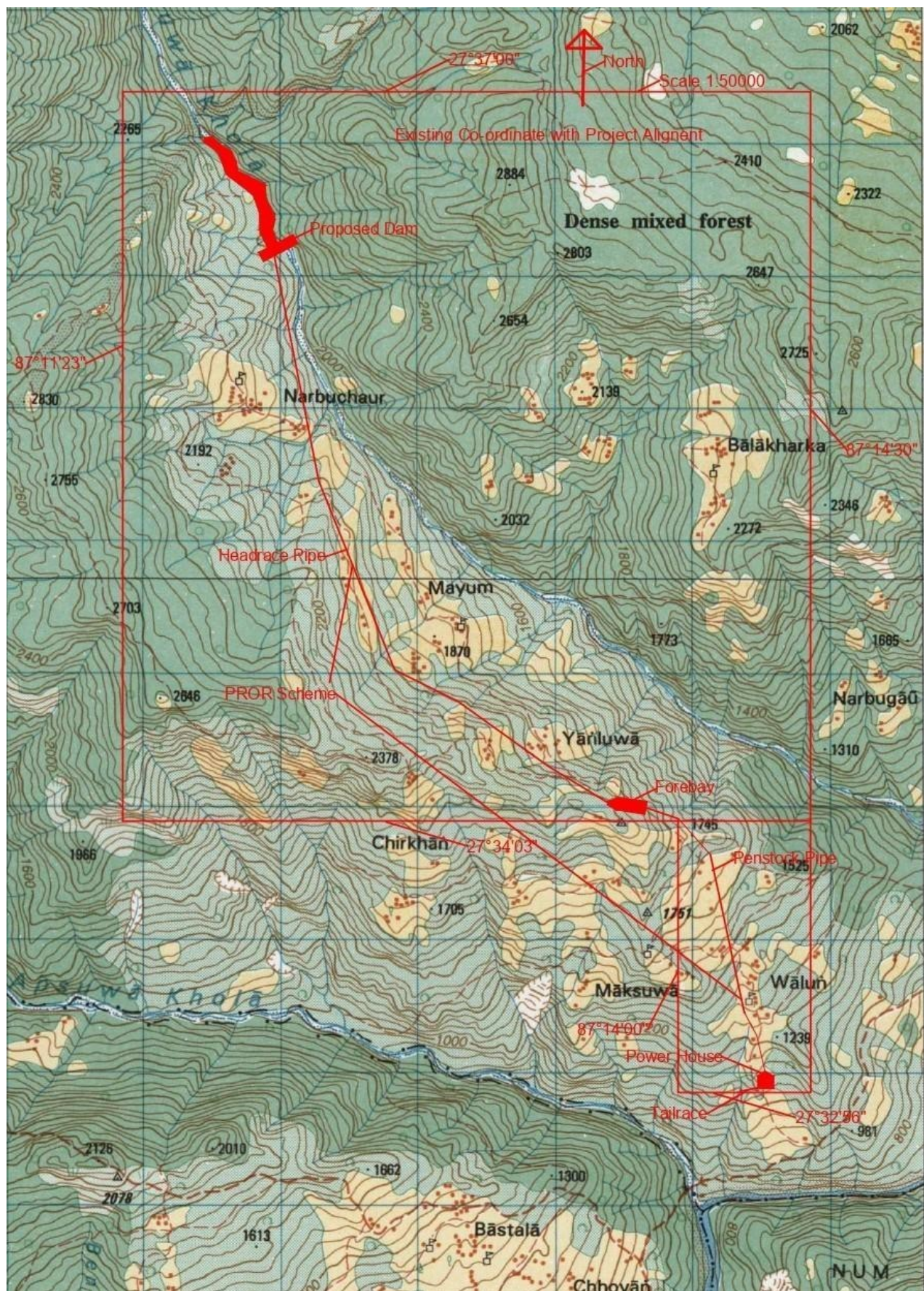
The Project is accessible from Kathmandu by three routes.

- Kathmandu-Tumlingtar via Flight and to project site via Khadbari – Chichila - Num-Aamrang - Powerhouse Site (80 km)
- Kathmandu- Biratnagar via flight and to project site via road Biratnagar-Dharan-Khadbari- Chichila- Num- Aamrang- Powerhouse Site
- Via road Kathmandu – Dhulikhel – Khurkot – Sindhuli – Bardibas – Itahari – Dharan -Hile - Khadbari – Chichila – Num – Aamrang - Powerhouse Site (597 km).

The site area such as Headworks, Surge tank Area, Powerhouse area is accessible from the main camp located at Makalu Rural municipality. Headworks' area is approximately 14 kms away from the main camp near Powerhouse, similarly Surge tank area is approximately about 6.5 km from the Powerhouse Camp area.

The general layout of the project is shown in Figure 1.

Figure 1: General layout of the Project Structures



1.2 PROJECT KEY INFORMATION*Table 1: Project Key Information*

Project Key Data			
Project Name	Isuwa Khola Hydropower Project		
Project Company Name	K.B.N.R Isuwa Power Limited		
Installed Capacity	97.2 MW	Annual generation	674.30 GWh
Location	Sankhuwasabha, Nepal	Civil Contract Award	7 th April 2019
Date of Generation license	15 th May 2020	Date of PPA signing	12 th October 2018
Revised Project Cost (estimated total)	NPR 13,390 Million	Revised Total equity required (estimated)	NPR 2,678 Million
Revised Total debt required (estimated)	NPR 1,0712 Million	RCOD (proposed extended)	13 th February 2027
Lenders	Sanima – Lead, NIMB (co- lead), Kumari, Muktinath Bikash, Laxmi Sunrise, Everest, Nepal SBI, EPF	Consultant	GERMDC Pvt. Ltd.
Civil Contractor	Build-Tech Construction Pvt.Ltd, Kathmandu, Nepal	Hydro-Mechanical Contractor	Manakamana Nirman Sewa, Kathmandu, Nepal
Electro-Mechanical Contractor	Chongqing Water and Turbine Work Co. Pvt. Ltd. (CWTW), Chongqing, China	Transmission Line Contractor	Prakruthi Energy Solutions Pvt. Ltd., Kathmandu, Nepal
Land Acquired	Tentatively 210 Ropani till date		
Project Input(s) (Resources, Feedstock)	The Project has the design discharge of 12.60m ³ /s with installed generating capacity of 97.2 MW.		
Project Output(s)	674.30 GWh per year will be supplied to the Nepal electricity network, as per the Power Purchase Agreement (PPA) with the Nepal Electricity Authority (NEA)		

1.3 SALIENT FEATURES OF THE PROJECT

Detailed Salient Features of the Project are as mentioned as below:

Table 2: Detailed Salient Features of the Project as per Generation License

Location:	Makalu VDC Ward No -1, Sankhuwasabha District, Eastern Development Region (currently Province No. 1) of Nepal
Purpose of Project:	To supply for domestic use by connecting to national grid
Hydrology:	
Catchment Area at Intake	152 km ²
Design 100-yrs flood	166.94 m ³ /s
Design Flow	12.60 m ³ /s
Design 200-yrs flood	184.77 m ³ /s
Probability of exceedance of flow	58.71%
Weir:	
Type	Raised Weir
Size (L x H)	50m x 37m
Crest Elevation	2005 m above msl
Max. Flood Level (100 years return)	895.4 m above msl
Crest Length	70 m
Intake:	
Type	Side Intake
Number of Orifices	2
Size (B x H)	2.5 m x 2.5 m (each)
Headrace Pipe	
Length	6911.53 m
Diameter	2.17-2.27m
Thickness	10 mm
Surge Tank	
Type	Circular

Number	1
Diameter	19.5 m
Height	32 m
Penstock:	
Length	2500 m
Thickness	10 mm to 38 mm thickness
Diameter	1.8 m
Power Facilities:	
Powerhouse Type	Surface
Dimensions (L x B)	115 m x 20 m
Gross Head	940 m
Net Head	914 m
Installed capacity	97.2 MW (3 x 34.1 MW)
Dry energy (including peak energy)	262.54 GWh
Wet energy	411.76 GWh
Annual Net Energy Output	674.30 GWh
Tailrace Culvert:	
Type	RCC, rectangular culvert
Length	60.00 m
Height	2.7 m
Width	2.5 m
Longitudinal slope	1:500 (V:H)
Transmission Facilities:	
Transmission line length	1 km (up to Cascade Switchyard)
Voltage level	132 kV, Double circuit

1.4 PROJECT KEY DATES

The key dates for the project details are listed in the table below:

Survey License	: 6 th March, 2020
EIA approval	: 18 th February, 2020
Grid Connection Agreement	: 22 nd April, 2018
Generation license received	: 15 th May, 2020
Power Purchase Agreement (PPA)	: 12 th October, 2018
Financial Closure	: 30 th August, 2019
Civil Contract	: 7 th April, 2019
Hydro-mechanical Contract	: 17 th April, 2022
ToR Approval for 132 kV TL Project	: Ongoing
Electro-mechanical Contract	: 11 th April, 2022
IEE Approval for 132 kV TL Project	: Ongoing
Construction License received for 132 kV TL	: Ongoing
Proposed Extended Commercial Operation Date	: 6 th May, 2026

1.5 MAJOR CONTRACT PACKAGES

Three different contract packages have been prepared for the implementation of the Project. Out of them, Package 1 has been awarded to Majestic Construction and Suppliers Pvt. Ltd. for Civil Works Construction on process, Package 2 has been awarded to Manakamana Nirman Sewa for Hydro- mechanical and Penstock on 17th April 2022, Package 3 has been awarded to Chongqing Water and Turbine Work Co. Pvt. Ltd., China on 11th April 2022.

- | | |
|--|----------------------|
| ➤ Civil Works Construction: Civil Contractor | ➔ CONTRACT Package 1 |
| ➤ Hydro-mechanical and Penstock: HM Contractor | ➔ CONTRACT Package 2 |
| ➤ Equipment (Electromechanical): EM Supplier | ➔ CONTRACT Package 3 |

2 PROGRESS UPDATE

At the construction site, K.B.N.R Isuwa Power Limited has been continuously monitoring the construction activity of the Civil works, the Hydro- mechanical works, the Electro-mechanical works and the Transmission Line works that was awarded by Employer to the individual Contractors. The work progress achieved by the Project till date is described below.

2.1 PRE-CONSTRUCTION WORKS

2.1.1 ACCESS ROAD

The 12 km earthen access road towards the construction site from Num is functional. Most of the sections of access roads are constructed by the Project along with upgradation of the existing village roads. The roads were upgraded with necessary filling using the river bed material, construction of side drains and additional construction of gabion and masonry wall structures. The access roads are constructed with one river crossing with bailey bridge of span 45meters, at Arun River crossing. The access road also passes over few dry streams which need regular maintenance during the time of monsoon flood.

2.1.2 CAMP FACILITIES

The construction of the camp facilities in the Headworks area (Permanent), Surge Tank area (Temporary) and Powerhouse area (Permanent) have been completed with construction of 4 buildings in Headworks, 2 building in Surge Tank and 8 buildings in Powerhouse Camp. Besides, regular maintenance and cleaning no major maintenance work occurred.

2.1.3 CONSTRUCTION POWERLINE

The national-grid connected Nepal Electricity Authority (NEA) Substation (S/S) at Sitapati, Sankhuwasabha, will be providing the power necessary for the construction of the Project via JV with Isuwa Cascade PROR Hydropower Project.

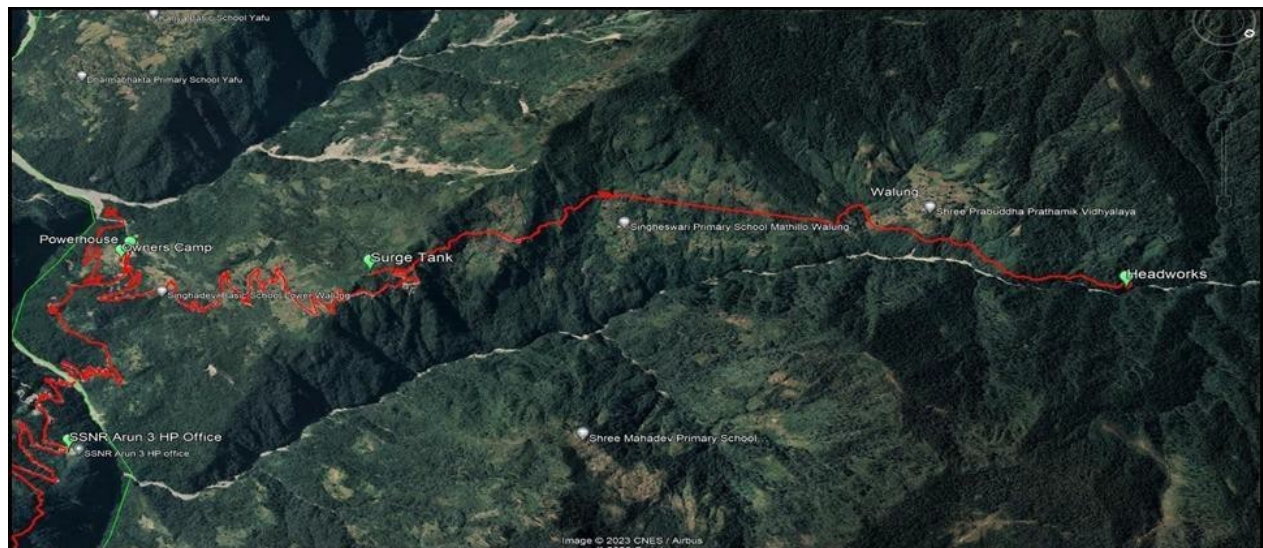


Figure 2: Access Road Network at site

The power required for the construction of the Project, as per the load requirements at the headworks, surge tank and the powerhouse has been estimated to be approximately 1.7 MVA. The construction power line has been in operation and is being operated with minor maintenance.



Figure 3: Gabion wall construction at access road from Arun River to Powerhouse Area

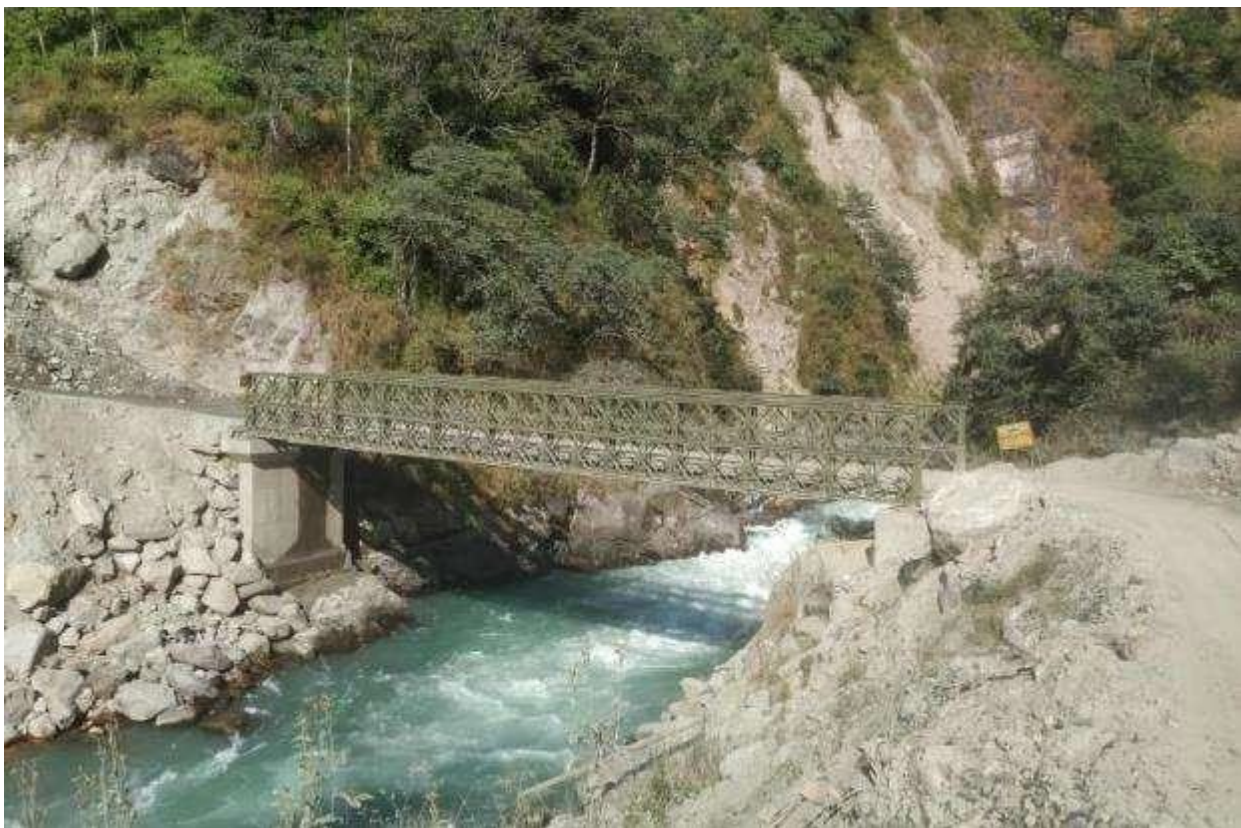


Figure 4: Bailey Bridge at Arun River



Figure 5: Employer's residential camp at Headworks



Figure 6: Employer's residential camp at Powerhouse



Figure 7: Construction Powerline

2.2 CIVIL WORKS

The Civil Works Contract was awarded to Build-Tech Construction Pvt.Ltd on April 7, 2019. The construction of civil works started from June 2019. Currently, the Civil Contractor has been carrying out concreting works of weir, stilling basin, anchor blocks, surge tank, powerhouse and tailrace culvert section along with excavation works from the structures through Nepali subcontractors. Undoubtedly, the construction schedule has been affected, but efforts are being made to manage the delay and complete the Project within the extended RCOD.

2.2.1 MAJOR RESOURCES AVAILABLE AT THE SITE

The major resources (manpower, machineries and materials) engaged for the construction and management of the IKHP is presented in this chapter. Contractor's resources are based on the reports made available by the Contractor on monthly basis. The Employer has been supporting the Civil Contractor to secure an uninterrupted supply of those materials and continuation of the construction activities of the Project. The Employer has been facilitating the Contractor by negotiating with various concerned parties like the government bodies, local levels, communities and material suppliers, transporters and sub-contractors. Despite these efforts of the Employer and Contractor, some work fronts and desired milestones of the Project have been affected.

Table 3: List of Equipment's at site

S.N.	Name	Specification/Model	Quantity	Remarks
1.	Excavator	XGMG and Hyundai	9	8 operational
2.	Loader	ACE-AX124	1	operational
3.	Dump truck	Tata	4	operational
4.	Pickup truck	Mahindra Bolero	5	4 operational

S.N.	Name	Specification/Model	Quantity	Remarks
5.	Tractor	Mahindra	10	
6.	Concrete Pump		2	
7.	Self-Loader		5	
8.	Vibrator		6	
9.	Welding Machine	ODAR	19	
10.	Diesel Generator	125KVA	2	
11.	Diesel Generator	62.5KVA	2	
12.	Diesel Generator	30KVA	2	
13.	Water pump	1.5 HP	4	
14.	Diesel air compressor	ATLAS	5	
15.	Hand drill		6	Rock Blasting
16.	Tower crane	5T	1	
17.	Screening system	Whole set	1	
18.	Crusher	40 HP	1	10-40mm aggregate

2.2.2 HEADWORKS

The progress in the raised weir area and undersluice is on progress. The project continues to progress steadily across all major components. The elevation gains at the weir, completion of foundational elements at the undersluice, and ongoing earthworks in the pondage area indicate a positive trend toward achieving project milestones. Current efforts focus on increasing heights, carrying out backfilling, and implementing the proposed structural works at the pondage slope.

Table 4: Work Progress at Raised Weir & Intake

Structure	% Complete	% Remaining
Raised Weir Intake	69 %	31 %

2.2.1.1 Raised Weir and Intake

During the reporting period, significant progress is being made across the raised weir, undersluice, and pondage area. The raised weir currently stands at an elevation of 1997 meters, reflecting an advancement of 29 meters from the bottom.



Figure 8: Raised weir along with tower crane

2.2.1.2 UNDERSLUICE

At the undersluice, concreting of the raft is completed. Vertical and radial gate embedment are installed and both the left and right walls—from the bucket portion—measuring 4 meters and 3 meters respectively, are completed. The wall has been raised up to the foundation of the intake and also the raft foundation of intake is completed.



Figure 9: Undersluice, intake view

2.2.1.3 PONDAGE AREA

In the pondage area, slope cutting and heavy excavation are ongoing along the right bank upstream of the raised weir, spanning approximately 250 meters in length with a slope of 2:1.



Figure 10: Excavation on pondage area



Figure 11: Slope cutting on pondage area

2.2.3 HEADRACE PIPE

The headrace pipe (HRP) alignment is currently accessible via a motorable road, facilitating transportation and construction activities. Excavation work is underway at the crossing points of the HRP, while blasting activities have already been completed. Along various chainages of the HRP alignment, the placement of the headrace pipe, along with concreting of anchor blocks and support piers, is actively observed. Pipes are stored alongside the road, ready for installation in upcoming stages. A total of 43 anchor blocks is completed, and jacketing works are ongoing on most of the support piers. Four major crossings, intended for siphons and bridges, are identified, and abutments construction is in progress. Currently, 4600 meters of pipe have been successfully laid along the alignment.

Table 5: Work Progress at Headrace Pipe

Structure	% Complete	% Remaining
Headrace Pipe	65 %	35 %



Figure 12: Erection of headrace pipe.

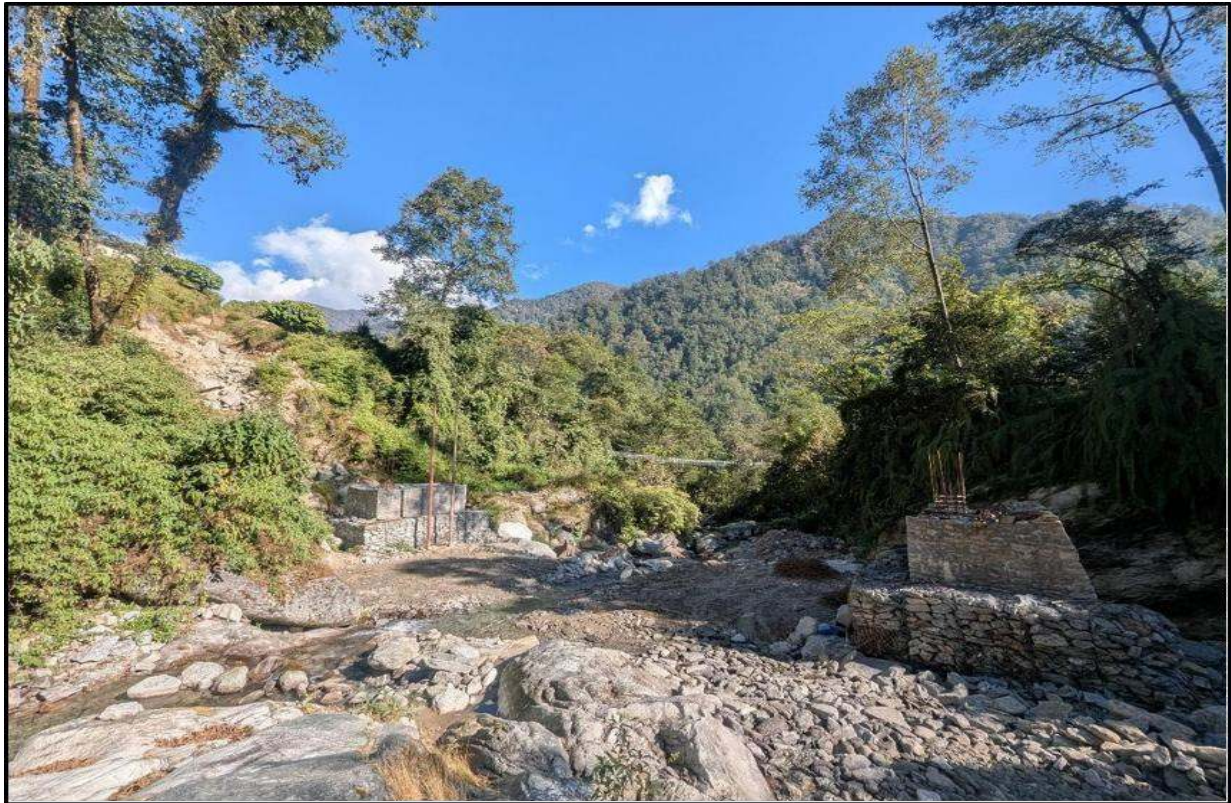


Figure 13: Construction of siphon crossing of headrace pipe alignment



Figure 14: Proposed crossing section of headrace pipe alignment



Figure 15: Construction of anchor block at headrace pipe alignment



Figure 16: Jacketing works in support pier at headrace pipe alignment

2.2.4 SURGE TANK

Concreting work up to 6 meters from the crank level (EL.1990.6) has been completed. However, the work is currently on hold, with plans to use scaffoldings from the powerhouse for concreting activities. The backfilling around the surge tank is already completed.

Table 6: Work Progress at Surge Tank

Structure	% Complete	% Remaining
Surge Tank	60 %	40 %



Figure 17: Backfilling of surge tank



Figure 18: View of surge tank from penstock side



Figure 19: Inside view of the surge tank with scaffolding

2.2.5 PENSTOCK PIPE

Excavation from Anchor Block 17 to 18 to the concrete casing area upstream of the powerhouse has been completed. A saddle pad is installed in the excavated section to support the penstock pipe.

Concrete casing works for the inclined penstock are ongoing upstream of the powerhouse, indicating active construction in that area. Erection of 450-meter length pipe has been completed. Concrete casing of 220 meters of pipe has been completed. Additionally, bioengineering is proposed for the inclined penstock section to stabilize the soil and prevent erosion.

Table 7: Work Progress at Penstock Pipe

Structure	% Complete	% Remaining
Penstock Pipe	49 %	51 %



Figure 20: Erection of pipe between and construction of anchor block



Figure 22: Construction of penstock pipe and site preparation



Figure 22: Construction of anchor blocks of penstock pipe

2.2.6 POWERHOUSE

Significant progress is observed in the powerhouse area, where civil works are completed up to the corbel beam level. Rebar works for the corbel are completed and formworks are placed for the preparation of concreting, indicating continued structural advancement. Concreting of the machine floor level is partially left out in accordance with the electromechanical (EM) contractor's requirements to allow for the installation of embedded parts for the turbine and generator. The turbine casing is expected to arrive soon and will be installed at a later stage. Meanwhile, the cooling chamber has been completed and the construction of the oil tank's slab is ongoing.

Table 8: Work Progress at Powerhouse

Structure	% Complete	% Remaining
Power House	90 %	10 %



Figure 23: Bird's eye view of the powerhouse



Figure 24: Preparation of Concreting at corbel beam level



Figure 25: Ongoing construction of top slab for the cooling chamber

2.2.7 TAILRACE

The tailrace of length 82 meters has been completed.

Table 9: Work Progress at Tailrace

Structure	% Complete	% Remaining
Tailrace	100 %	0 %



Figure 26: Construction of tailrace



Figure 27: Construction of cooling pond along tailrace

2.3 HYDRO-MECHANICAL WORKS

The Contract for Hydro-mechanical (HM) works has been awarded to Manakamana Nirman Sewa. The HM works were started from May 2022 from the surge tank of the construction area.

Till date erection and installation of 4600 m of headrace pipe has been completed. Erection of 150 m penstock pipe inside the concrete casing has also been completed along with 240 m penstock pipe. Fabrication of steel pipe for headrace pipe has been completed along with Visual testing, DPT Testing as well as UT Testing by the HM Contractor whereas the penstock pipes has yet to be completed. The HM Contractor has been carrying out the fabrication works of bends and penstock pipes at site.

Currently, embedded parts of radial gates for under sluice have been delivered at site and is in the process of installation. Also, the fabrication works of intake gates and radial gates are under process at the factory.

Table 10: Equipment and Materials Status at the end of May.

S. N	Description	Quantity
1	DG 30 KVA	2
2	DG 125 KVA	1
4	Welding Machine	6
3	Grinding Machine	6
4	PUG Cutting Machine	8
5	Oxygen gas	35
6	LP gas	10
11	Welding electrode 3.15 mm 7018	515 kg
12	Welding electrode 4 mm 7018	240 kg

2.3.1 STEEL PIPES AND**OTHERS HEADRACE PIPELINE**

External Diameter: 2.17-2.51 m

Thickness: 10 mm

Table 11: Detail of work progress of Headrace Pipe

Straight Pipes	Up to previous month	This Month
Cutting	completed	X
Rolling	completed	X
Fitting	120	15
Welding	120	15
Inspection	120	15
Painting	120	15
Transportation to the storage yard	completed	X

PENSTOCK PIPES

Internal Diameter: 1.80 m

Thickness: 10 mm to 38 mm

Table 12: Detail of work progress of Penstock Pipes

Straight Pipes	Up to previous month	This Month
Cutting	164	X
Rolling	140	X
Fitting	75	10
Welding	75	10
Inspection	75	10
Painting	60	10
Transportation	40	10

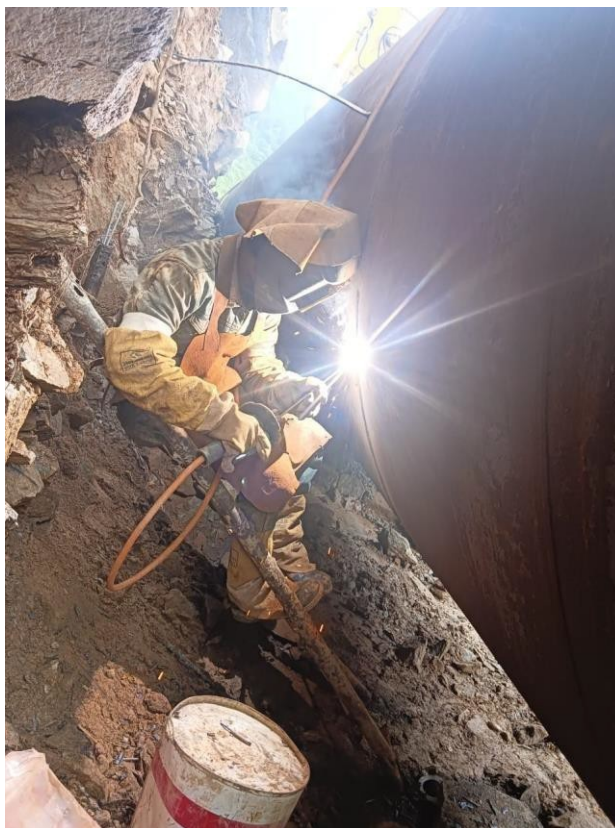


Figure 28: Welding of pipes



Figure 29: Erection and Painting of pipes

2.4 ELECTRO-MECHANICAL WORKS

The design, fabrication, assembly, supply and installation of electro-mechanical work of IKHP are under the scope of the Contract with Chongqing Water Turbine Works. Co. Ltd. (CWTW), China. Under this scope CWTW is responsible for all electromechanical works starting from the end of penstock until the high voltage power line (132 kV) accommodating three units of vertical Pelton turbine with all corresponding generating units, control and protection systems, battery backups, internal power consumption transformers, power transformers, excitation transformers, SCADA and communication system as per NEA's grid code requirements, the overhead crane, butterfly valves for each unit feeding penstock.

The EM Contractor officially mobilized its manpower and resources to the site on August 07, 2022. The earthing works under the foundation of powerhouse has been completed. The design, fabrications and assembly works are being carried out at various factories in China. The first shipment included turbine accessories has already reached site, the second shipment which includes turbine accessories, generator embedment parts, EOT crane, valves, galvanized steel pipes and the third shipment which includes Pelton turbines, generator accessories and excitation systems are in the Biratnagar Bhansar ready to be transported to the site. With this, the contractor has to deliver transformer, auxiliary spare parts, switchyard equipment's, switch gear, SCADA, control cabinet, DC power system.

Till date, the EM contractor has delivered almost 65% of the equipment. Erection and installation works has to be carried out at the site whereas testing and debugging is scheduled is yet to be done

2.5 TRANSMISSION LINE WORKS

Isuwa Khola Hydropower Project has signed Connection Agreement on 2018, April with Nepal Electricity Authority for evacuating power generated from the project to Integrated Nepal power System (INPS). The power generated from the project will be step-up by 11/132kV transformer at Powerhouse switchyard to Isuwa Khola PROR Cascade's switchyard which is about 1 km in length and the connection point as per the grid connection agreement is at Sitalpati substation which is about 21 km in length. All necessary arrangement including 132kV bay extension will be construction the necessary protection facilities for the line at the switchyard of the powerhouse as per the site condition. The 132 kV transmission line connecting the switchyard to be connected to the 132 kV BUSBAR at Isuwa Khola PROR Cascade switchyard and then at Sitalpati Substation with all the control and protection equipment as per the NEA Standards. Metering (Main Meter and Check Meter) provision shall also be installed at the interconnecting substation. Survey was conducted throughout the proposed best 132 kV transmission line alignment for the preferred option. Project shall have 132 kV line bay in its powerhouse switchyard. It has been proposed to connect at 132 kV voltage level up to the proposed 33/132/220 kV Sitalpati substation under construction by NEA.

The transmission line route map is shown in figure below.

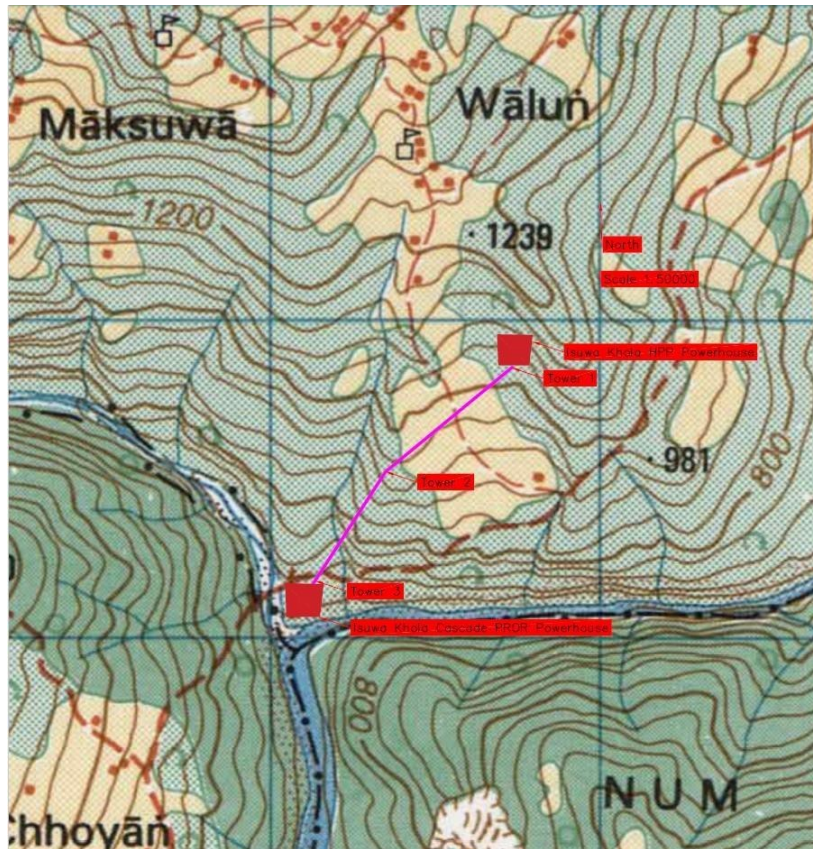


Figure 30: Transmission line route map

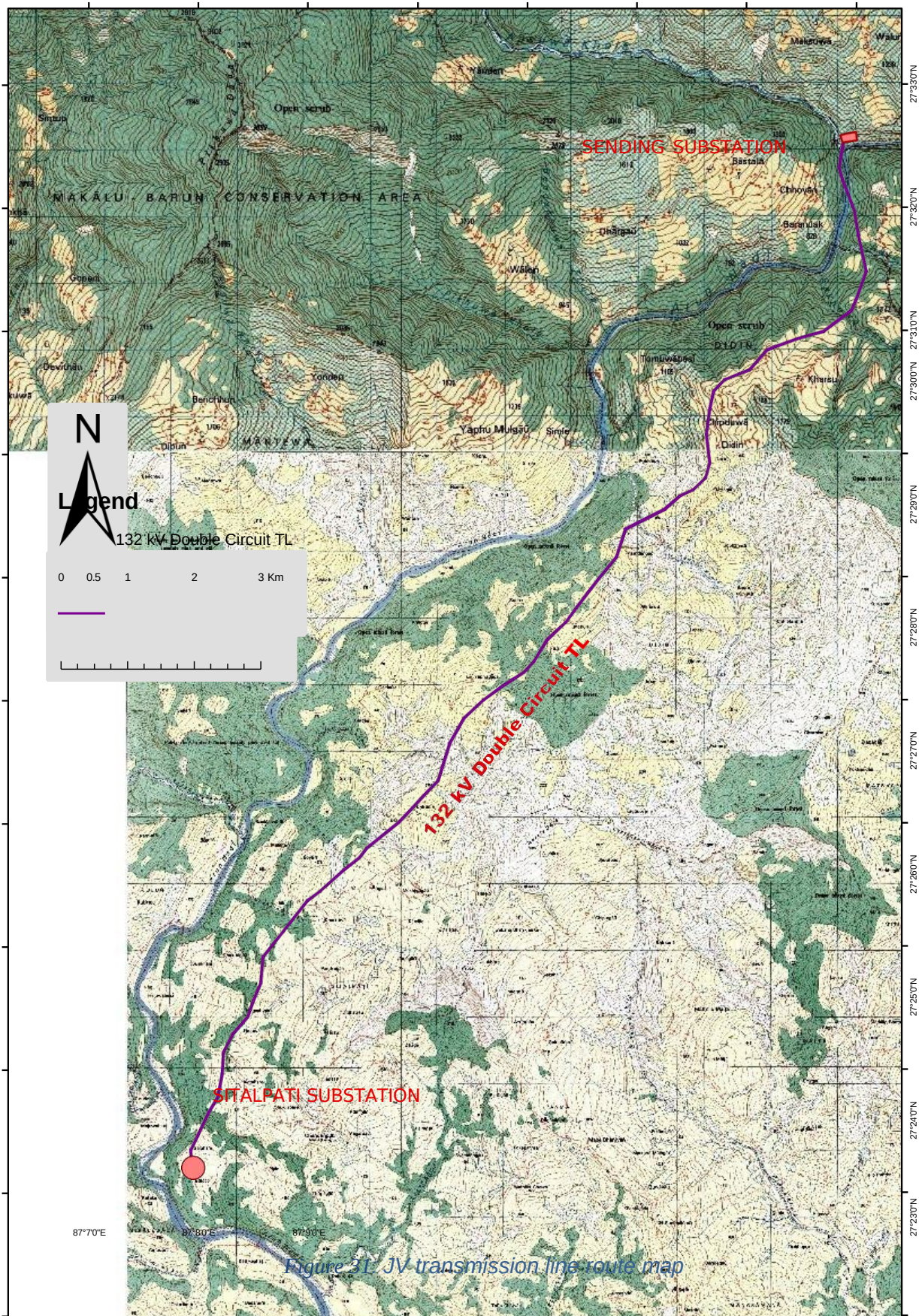


Table 13: Work progress of transmission line

S. No	Description	Status
1	Desk Study Report	Completed
2	Survey License	Obtained
3	Application for IEE	Applied

Table 14: Work progress of transmission line with isuwa cascade

S. No	Description	Status
1	Feasibility Report	Completed
2	Tower Location	Completed
3	Land Acquisition	90% completed
4	EIA	Ongoing

*Figure 32: Sitalpati substation (NEA Project)*

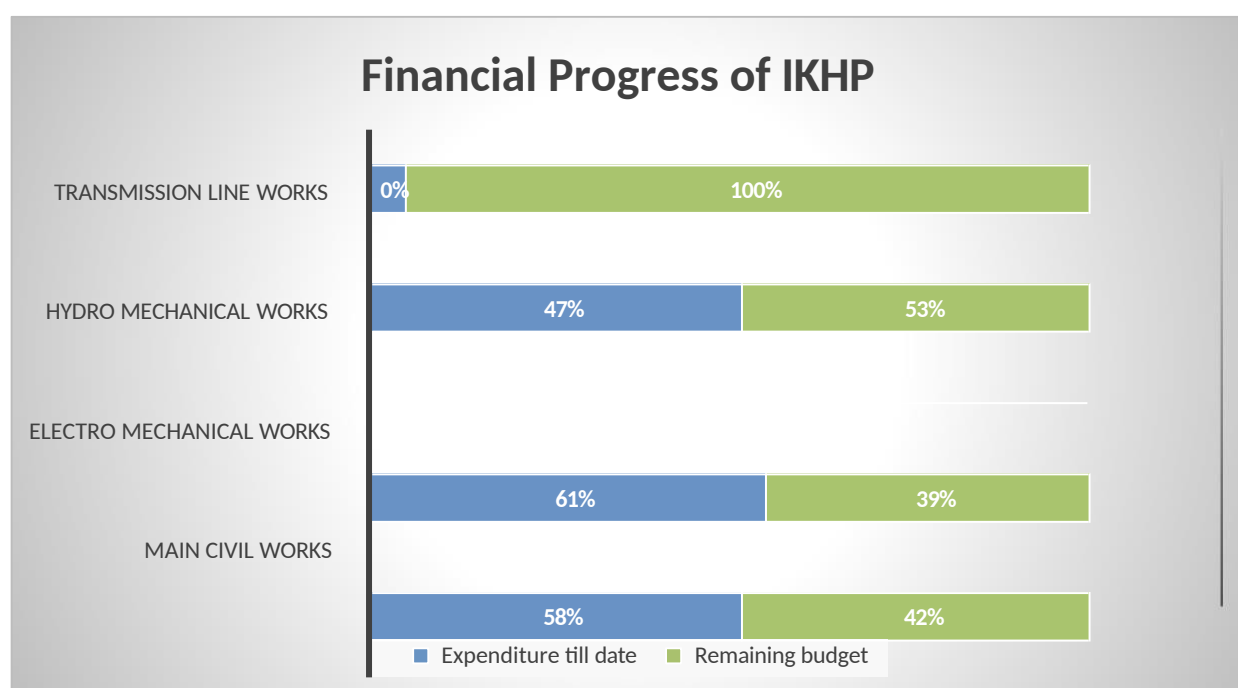
2.6 FINANCIAL PROGRESS TILL DATE

The total project cost of Isuwa Khola Hydropower Project is **NPR. 13,390,000,000** (In words. Nepalese Rupees Thirteen Billion Three Hundred Ninety Million only). Out of the total project cost, the total equity portion is NPR. 2,678,000,000 (In words. Nepalese Rupees Two Billion Six Hundred Seventy-Eight Million Only) whereas the total debt required is NPR. 10,712,000,000. (In words. Nepalese Rupees Ten Billion Seven Hundred Twelve Million Only) The promoter's equity portion, which bears 71.45% of the total equity i.e., NPR 1,913,368,200 (In words. Nepalese One Billion Nine Hundred Thirteen Million Three Hundred Sixty-Eight Thousand Two Hundred only) has been fully paid up and the share lagat has already been registered in the Office of the Company Registrar (OCR). Moreover, the necessary arrangements for the debt portion have already been made with the facilities agreement entered with a consortium of 8 commercial banks led by Sanima Bank Ltd.

Out of the total Contract amount, 58% has already been paid to the Civil Contractor till date against the works performed as per the Contract. The amount is paid on the basis of raised Interim Payment Certificate (IPC) by the Contractor. Till date, payment against 17 IPCs have been already disbursed to the Civil Contractor whereas the Contractor is in process of raising IPC 18. Similarly, 47% of the Contract amount has been paid to the Hydro-Mechanical Contractor till IPC 4 out of design and procurement portion. All required Steel plates have been purchased by the Employer. 61% of the Contract amount has already been paid to the Electro-Mechanical Contractor against the bills of supply portion for the dispatch of 3 lots EM equipment after the receipt at site and advance paid against Advance payment guarantee (APG).

Table 15: Financial Progress of Major Contract Packages till Date

Major Contract Packages	% Expense till date	% Remaining Budget
Civil Works	58%	42%
Hydro-Mechanical Works	47%	53%
Electro-Mechanical Works	61%	39%
Transmission Line Works	0%	100%



The total financial progress of the Project including major Contract Works along with Infrastructure Works, EMP including Land, General Items, Pre-operating and management is about **58%** till date. However, in overall the total expended amount in the Project is about **42%** financial expenditure out of the total project cost.

Particulars	% Expense till date	% Remaining Budget
Financial Progress of IKHP	58%	42%

2.7 SOCIAL AND COMMUNITY SUPPORT WORKS

Various social and community support works are carried out during this month. Some of them are,

- 1) Excavation of road of 1.5 km. (Thange-Bhanjyang School)
- 2) Excavation of road of length 1200 meters. (HRP access road-Yangluwa Village)
- 3) Gabion works for protection at Yangluwa-Mayum-Norbuchor.
- 4) Financial assistance for construction of Yangluwa Gangdhok Gumba.
- 5) Local level support in collaboration with ward officials of Makalu-01.
- 6) Material assistance for drinking water supply at Jimmy Village: Scheme1 and Scheme2.
- 7) Excavation of playing ground at Jimmy Village.



Figure 33: Excavation of road at Yangluwa



Figure 34: Yangluwa Gangdhok Gumba

3 WORK PROGRESS SUMMARY

Till date, the overall construction progress of Isuwa Khola Hydropower Project (IKHP) – 97.2 MW is 65%. The progress in Civil works is about 60% whereas in Hydro-mechanicals works is almost 47%. Further, the progress in Electro-mechanical works and Transmission Line works is 61% and 20% respectively.

S.N.	Particulars	Construction Progress
1	Overall Civil Works	74%
1.1	Raised Weir and Intake	69%
1.2	Desander	7%
1.3	Headrace Pipe	65%
1.4	Surge Tank	60%
1.5	Penstock Pipe Alignment	49%
1.6	Powerhouse	90%
1.7	Tailrace	100%
1.8	Switchyard	60%
1.9	Protection works along alignment	90%
2	Hydro-mechanical Works	65%
3	Access Road	100%
4	Electro-mechanical Works	65%
5	Transmission Line Works	20%
6	Infrastructure Development Works	100%
	Overall Construction Progress	71%

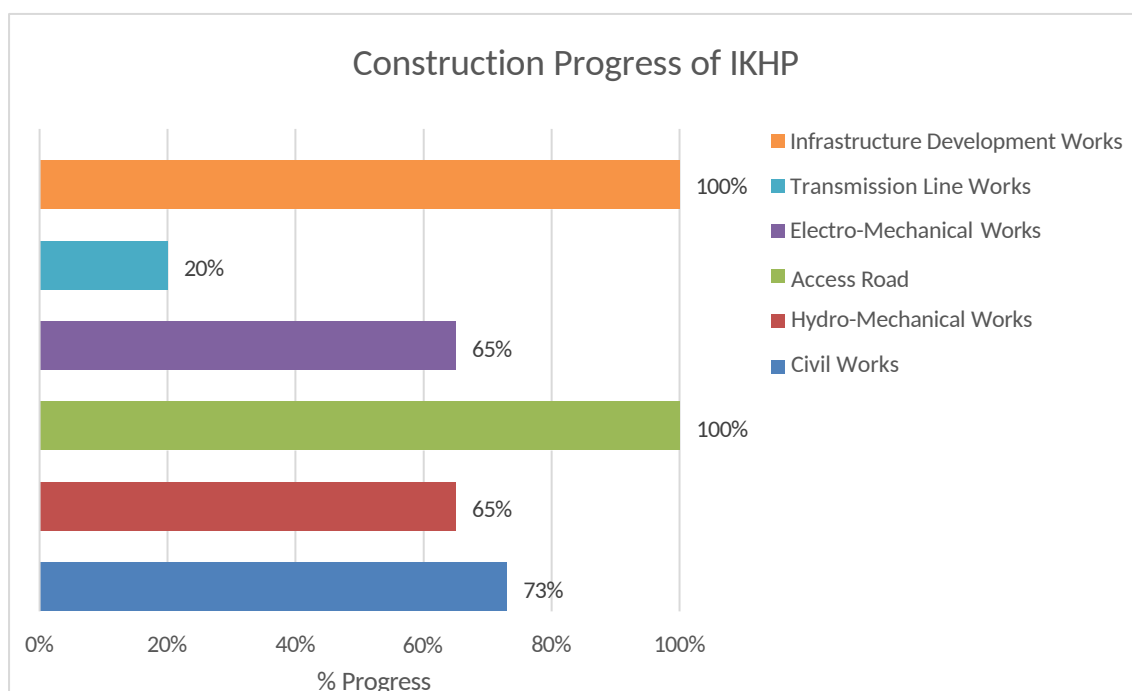


Figure 35: Work progress summary chart

4 HUMAN RESOURCES AT SITE

Table 16: Human Resources at Headworks (White Collar)

S.N.	Designation	Designation	Total Number
1	Sanjya Kumar Karna	Construction Manager	1
2	Sudhir Rai	Overseer	1
3	Dipendra Tamang	Overseer	1
4	Nurbu Sherpa	Supervisor	1
5	Dawa Sherpa	Manager/PRO	1
Total			5

Table 17: Human Resources at Headworks (Blue Collar)

S.N.	Designation	Total Number
1	Operator	8
2	Driver	10
3	Technician	4
4	Helpers (Machines)	12
5	Cook	4
Total		38

Table 18: Human Resources at Headworks (Workers)

S.N.	Designation	Total Number
1	Mason	10
2	Rebar workers	10
3	Semi-skilled workers	20
Total		40

Table 19: Human Resources at Headrace Pipe / Surge Tank (White Collar)

S.N.	Designation	Designation	Total Number
1	Sanjya Kumar Karna	Construction Manager	1
2	Purna Bahadur Bam	Overseer	1
3	Dil Bahadur Bishwokarma	Overseer	1
4	Jeetendra Yadav	Overseer	1
5	Pasang Sherpa	Supervisor	1
Total			5

Table 20: Human Resources at Headrace Pipe/ Surge Tank (Blue Collar)

S.N.	Designation	Total Number
1	Operator	4
2	Driver	4
3	Technician	6
4	Helpers (Machines)	3
Total		17

Table 21: Human Resources at Headrace Pipe/ Surge Tank (Workers)

S.N.	Designation	Total Number
1	Mason	6
2	Rebar workers	6
3	Semi-skilled workers	25
Total		37

Table 22: Human Resources at Penstock Pipe/ Powerhouse (White Collar)

S.N.	Designation	Designation	Total Number
1	Manoj Kumar Dev	Project Manager	1
2	Ramesh Pokharel	Construction Manager	1
3	Binayak Chakraborty	Mechanical Engineer	1
4	Nischal Thapa	Overseer	1
5	Nabin Katuwal	Overseer	1
6	Jalak Prakash Rai	Supervisor	1
7	Ugant Raut	Supervisor	1
8	Sanjay Dev	Store Manager	1
Total			7

Table 23: Human Resources at Penstock Pipe/ Powerhouse (Blue Collar)

S.N.	Designation	Total Number
1	Operator	8
2	Driver	6
3	Technician	4
4	Helpers (Machines)	8
5	Cook	3
Total		29

Table 24: Human Resources at Penstock Pipe/ Powerhouse (Workers)

S.N.	Designation	Total Number
1	Mason	15
2	Rebar workers	20
3	Semi-skilled workers	50
Total		85

5 CONCLUSION

The project is progressing according to the established timeline, with key milestones such as initial design approval and prototype development met as scheduled. Current efforts remain focused on finalizing system integration and conducting preliminary testing, with the team actively addressing any technical challenges to sustain momentum. Effective use of resources and ongoing stakeholder engagement continue to support smooth execution. The construction of hydropower components is currently ongoing; however, progress has been adversely affected due to continuous rainfall. The unfavorable weather conditions have hindered certain activities, leading to delays in the execution of work as per the planned schedule. Efforts are being made to mitigate the impact and resume full-scale operations as soon as conditions improve.

Next Steps:

Once weather conditions improve and rainfall subsides, construction activities will resume at full capacity. The site will be inspected for any water-related damages or safety concerns, and necessary drainage or cleanup work will be carried out. Revised schedules will be prepared to recover lost time, and priority will be given to critical path components to ensure minimal delay to the overall project timeline. Moving forward, the next phase will concentrate on user acceptance testing and final documentation, with a strong emphasis on maintaining quality standards and meeting the projected completion date. Progress will be closely monitored, and any emerging risks will be addressed promptly to ensure the project remains aligned with its objectives.

6 GALLERY

"The project continues to progress steadily, with key milestones being met on schedule. To provide a visual update on the current status, recent site photographs have been included below, showcasing the latest developments and ongoing work on-site."



Weir Construction



Under-sluice Concreting



Pondage slope stabilization



Pondage area excavation



HRP Erection



Jacketing Work at HRP



Anchor Block construction



Surge Tank Inner View



Surge Tank Backfilling



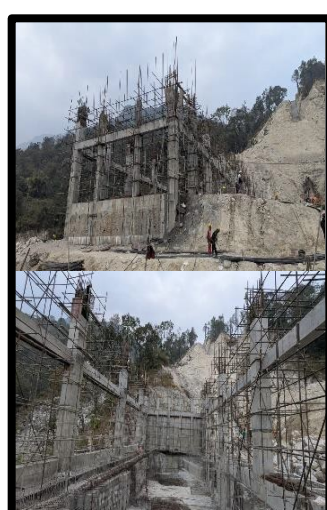
Penstock side view of surge tank



Penstock Pipe enclosed casing



Penstock Pipe Erection



Construction of Power House



Construction of Tailrace



Construction of Cooling P

