NUPCHE LIKHU HYDROPOWER PROJECT (57.5 MW)

Ramechhap, Nepal

Project Progress Report

Magh, 2080 – Chaitra, 2080

Vision Energy & Power Limited

New Baneshwor, Kathmandu, Nepal
Tel: +977-01-5244998
Email: visionenergy@veplinfo.com
WEBSITE:www.veplinfo.com

Executive Summary

This Progress Report is prepared for providing information about the progress of Nupche Likhu Hydropower Project (NLHP), Ramechhap (57.5MW). It contains the information about the project activities and progress of the months from Magh to Chaitra 2080. The major achievements during the period are:

A. Forest and EIA/IEE Related Works

1. 43.75% of tree cutting in Transmission Line Alignment has been completed.
2. Development of play grounds in Lahakshewar and Gumdel area.
3. Implementation and follow-up of environmental mitigation and social management plan throughout the construction phase to achieve good environment.

B. Preliminary/Preparatory Works

1. The road strengthening and routine maintenance of project's access road has been finished.
2. Road widening and strengthening of access road for the transportation of EM equipment (generator, transformer) has been completed.

C. Civil Works

1. Progress in Excavation of HRT (Headrace Tunnel) are demonstrated each front wise below:

SN	Description of Site	Tunnel Length(m)	Actual Tunnel Excavated (m)	Progress
1.0	**Vertical Shaft**	295.15	295.15	100%
2.0	**Penstock Tunnel**			
2.1	First Unit Bifurcation	55.78	55.78	100%
2.2	Second Unit Bifurcation	46.22	46.22	100%
2.3	Third Unit Bifurcation	31.4	31.4	100%
2.4	Penstock Tunnel	632.5	632.5	100%
	Total (1+2)	**1061.05**	**1061.05**	100%
3.0	**Headrace Tunnel**			
3.1	**Outlet Portal-Adit Junction**	1400	886	63%
3.2	**Likhu Inlet- Nupche Likhu Junction**	1078.68	1033	95.76%
3.3	**Nupche Inlet -Nupche Likhu Junction**	1058.90	754	71.20%
3.4	**Adit Portal-Adit Junction**	344.9	354.9	100%
3.5	**Adit Junction-Nupche Likhu Junction**	227.97	227.97	100%
3.6	**Adit Junction-Outlet Portal**	1329.4	534.7	40.22%
3.7	**Nupche Likhu Junction-Likhu**	347.78	278.4	79.93%
3.8	**Nupche Likhu Junction-Nupche**	540	348.4	64.51%
	Total (3)	**6071.55**	**4068.97**	**67.01%**

SN	Description of Site	Tunnel Length(m)	Actual Tunnel Excavated (m)	Progress
4.0	**Surge Shaft and Connecting Tunnel**			
4.1	**Surge Shaft Connecting Tunnel**	20	20.00	100%
4.2	**Surge Shaft**	41	5.50	13%
	Total (4)	**61**	**25.5**	**42%**
Total (1+2+3+4)		**7446.40**	**5408.32**	**71.66%**

2. The total Headrace Tunnel of 5408.32 (72.62%) has been completed out of 7446.40;
3. Final shotcrete in the Likhu inlet has been with progress of 610 m from U/S
4. Completion of Floodwall and second stage river diversion at Likhu Headworks;
5. Completion of concreting and backfilling works of Anchor Block from 1 to 15 and AB18 & AB19 for Likhu Headrace Pipe.
6. First stage river diversion works at Nupche headworks has been completed.
7. Construction of Flood wall panel 8 has been completed in Nupche Headworks.
8. Construction of Nupche Headworks Settling Basin has been 85% completed.
9. Along the Nupche Headrace pipe alignment, 4 nos. of Anchor Block are completed and excavation work along AB7 to AB8 is in progress.
10. Along the penstock alignment, concreting of 13 nos. of Anchor block have been completed.
11. Civil works of Power house is 93% completed.
12. Foundation works of Switchyard and transformer works has been completed.

D. Electromechanical (EM) Work

1. Erection of Powerhouse EOT crane has been completed.
2. Factory Acceptance Test of all Pelton Turbine has been completed.
3. Transportation of all three Transformer to the site has been completed.
4. Transportation of all three units of Generators from border to the site has been completed.
5. Earth mat laying in control building area has been completed.
6. Location finalization of valve house and water tank for firefighting at site.
7. Proper storage of received EM Equipment at site is in progress.

E. Hydro mechanical (HM) Works

1. Installation of embedded parts in Nupche HWs components at settling basin is in progress and gate frames being installed at Likhu HWs components
2. 41.34% of Pipes erection has been completed. The details are as follows:

Particulars	Total Length (m)	Completed Length (m)	Completed Percentage (%)
Penstock	1527.54	597.70	39.12%
Vertical Shaft	298.76	0	0%

Horizontal Shaft	569	18	3.60%
Bifurcation and Manifolds (Branch pipe)	182	108	59.34%
Likhu HRP	1053.122	909	86.31%
Nupche HRP	421.349	252.20	59.85%

3. Erection of pipes at VS2 (bends) in the Vertical Shaft has been completed and erection of pipes at Horizontal Shaft is in progress.

F. Transmission Line

1. 87% of tower material has been delivered to site.
2. 29.69% of Tower foundation concreting has been completed.
3. 37.81% excavation of tower foundation has been completed.
4. 19.38% of Tower foundation has been completed with back filling of Pit.

G. Planning, Governance and Other Works

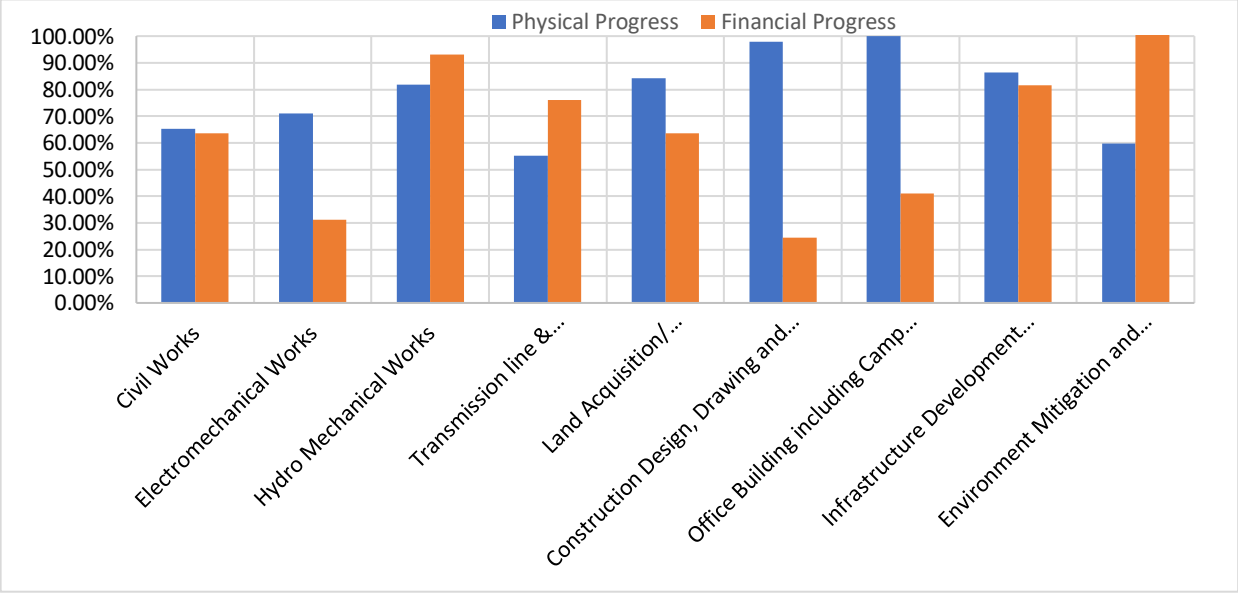
1. Investment in nearby small and other large projects has been initiated;
2. Some of the major plan for next quarter is discussed in detail report. Please refer to the status of the project below;
3. Development and Implementation of Strategy to increase Productivity;

H. Any Bottlenecks

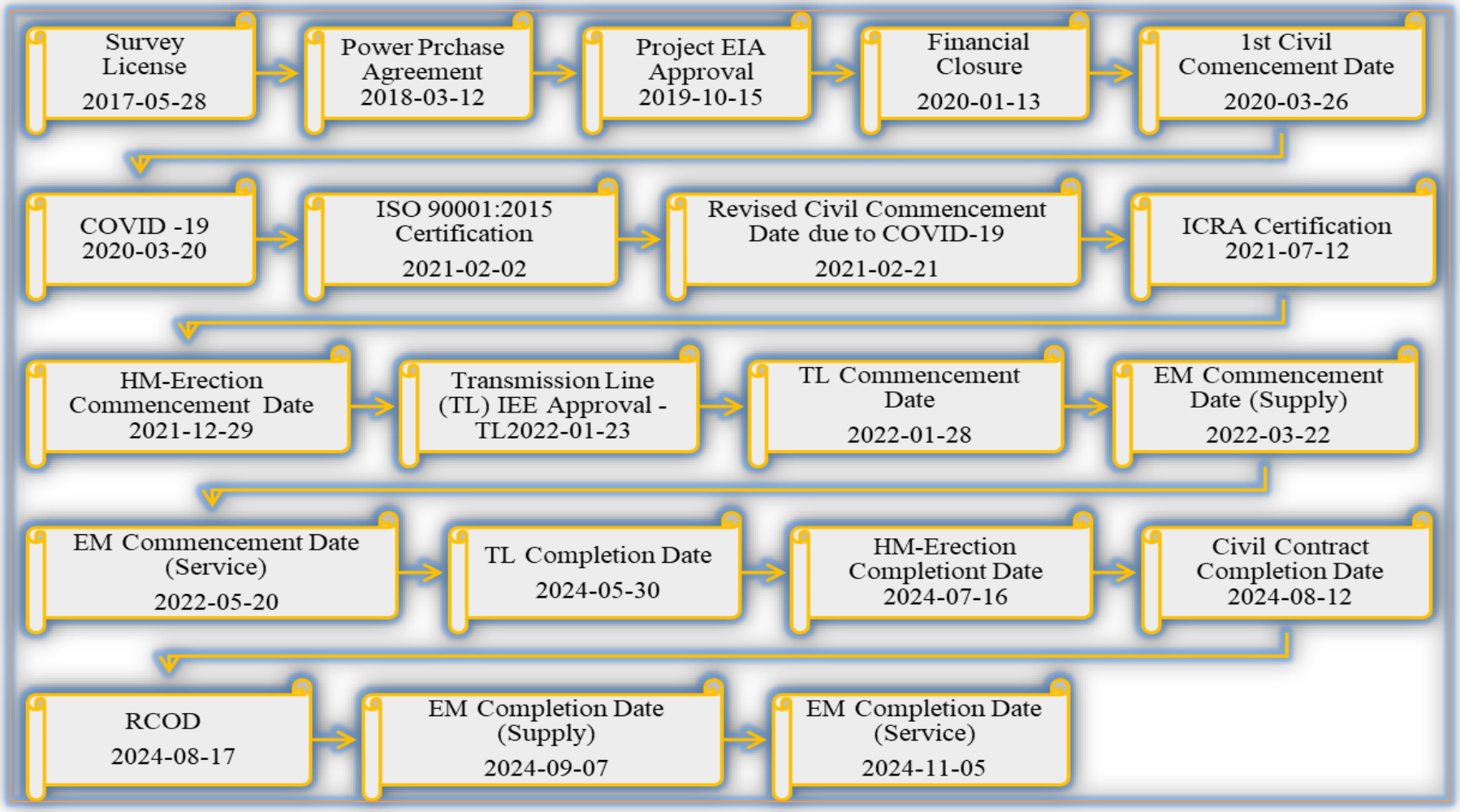
1. Installation of Gate Leaf at Likhu Intake.
2. Breakdown of machineries and remobilization of the manpower for the monsoon.

I. Financial and Physical Progress

1. Till the date 60.82% of the budget has been utilized and about 71.62% of the overall physical progress has been achieved;

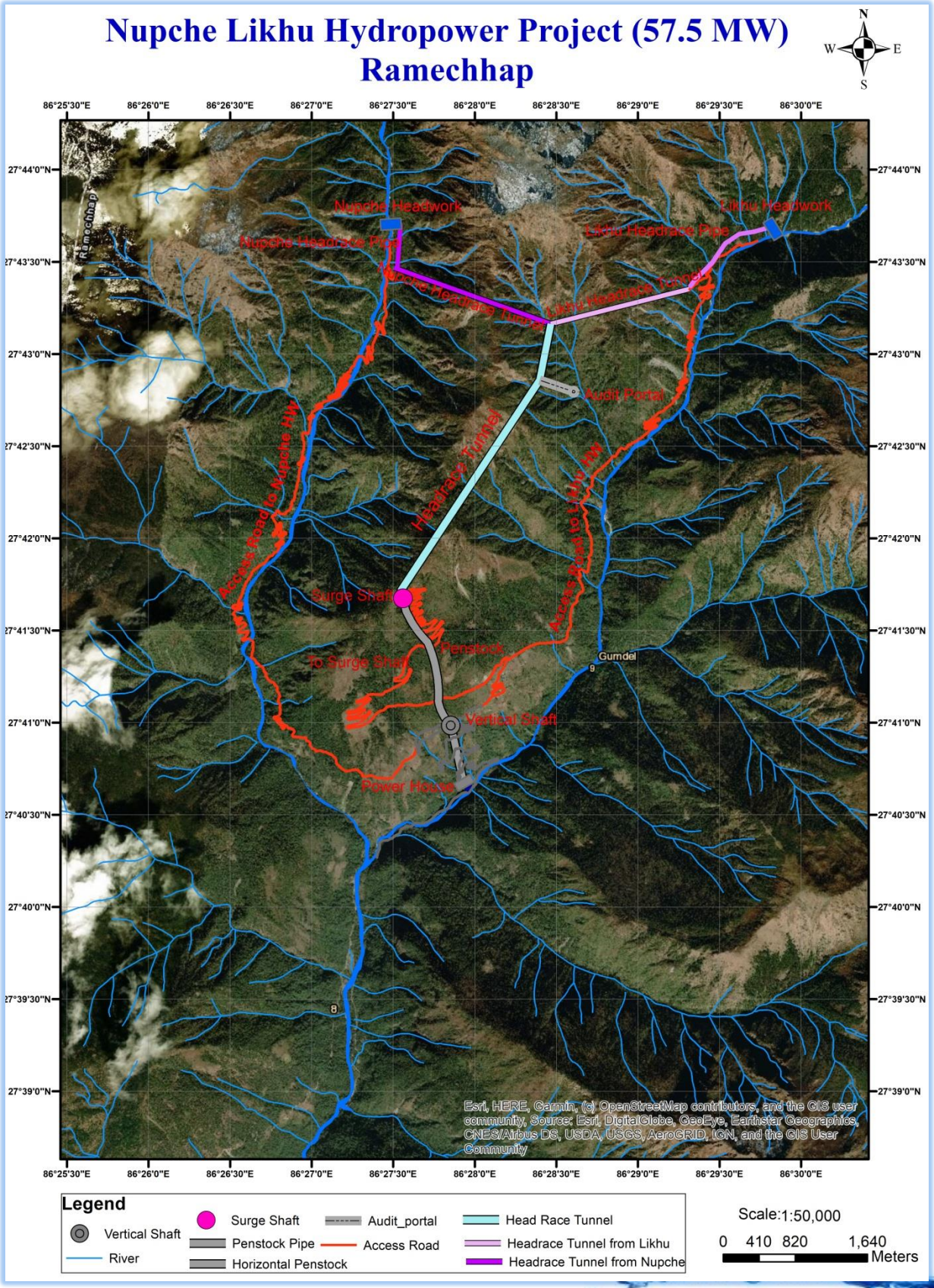


J. NLHP Project's Major Timeline



Contents

Section A: About the Project



1. Introduction

1.1 Background

Vision Energy & Power Ltd (VEPL) aims to develop Nupche Likhu Hydropower Project (57.5 MW) in Ramechhap District using local technical, managerial and financial capability and is dedicated to supply the power to the National Grid to fulfill domestic energy demand. The project is a run-of-river (RoR) hydropower project.

1.2 About the Project

The proposed Nupche Likhu Hydropower Project is located in Umakunda Rural Municipality of Ramechap district of Nepal. The source of water for the project is originated from Nupche and Likhu rivers which are snow-fed Rivers starting from the High Mountain/Hilly areas. The proposed intake of the Nupche Likhu Hydropower Project is located north of Lahaksewar village in left bank of Nupche Khola with its weir crest level at an elevation of 3338 m above amsl and the right bank of Likhu Khola with its weir crest level at an elevation of 3338 m above amsl. The powerhouse is located on the right bank of the Likhu Khola with the turbine center line level at 2336 m amsl. The gross head estimate is 1003.5 meter and design discharge is 7.11 m^3/sec.

1.3 Location & Access:

The project can be access from Kathmandu through an existing all-weather road up to Manthali (131 km) or 94 km road from Bardibas. After Manthali, following about 125 km partly stone paved earthen road reaches up to Kyama, Gumdel VDC. Furthermore, from Kyama an access road has been reached near to Kongematar village, the proposed Powerhouse site, Lahaksewar village which is also the residential area for the project employees, Outlet/Surge Shaft, Adit Tunnel, Likhu Headworks and Nupche Headworks.

1.4 Main Financial Features of the Project

a) Total project cost of the project: 10,578,458 thousand and total cost per MW = NRs. 183,973 thousand
b) Internal Rate of Return (IRR): 17.50 %, Equity Internal Rate of Return (EIRR): 27.57%
c) Simple Payback Period: 4.75 Years; Discounted Payback Period: 7.68 years.
d) High Energy per MW (6.63 GWh p.a.), Dry Energy 36.61% and Wet Energy 63.29%
e) Income Per MW: is NPR 4.07 Crore.
f) The Project has high head. It ensures cost efficiency and high energy.
g) Professional, Transparent and Responsible Management.

h) Aims to benefit Small and medium Investors too.

i) Focused on high Return on Investment and high value in secondary market.

1.5 Salient Features of the Project

S.N.	Particulars	Remarks
1.	**General**	
	Name of the Project	Nupche Likhu Hydropower Project
	Type of the Project	Snow fed Run-off River Hydropower Project
2.	**Location**	
	Zone/ Development Region	Janakpur Zone/Central Development Region
	District	Ramechhap
	Project Location	Umakunda Rural Municipality, (Gumdel VDC)
	River	Nucphe Khola and Likhu Khola
	License Boundary	
	Longitude	86°26'30" E - 86°30'30" E
	Latitude	27°40'37" N - 27°43'43" N
3.	**Hydrology**	
	Catchment Area at Headworks	150 Km^2 (Nupche 82km^2&Likhu 68 km^2)
	Design Discharge (Q 45 %)	3.89 m^3/s+ 3.22 m^3/s (Nupche & Likhu) = 7.11m^3/s
4.	**Nupche & Likhu- Headworks**	
	Weir	
	Type	Boulder line weir
	Bed Load Sluicer	
	Type	Bed Load
	Intake	
	Type	Orifice, Side Intake
	Gravel Trap	
	Type	Single, Dufour
	Settling Basin	
	Type	Double Bay Dufour Type
5.	**Headrace Pipe**	
	Headrace Pipe	480m & 1096 m (Nupche & Likhu)
6.	**Tunnel Length**	
	Total Length	7475 m
	Tunnel Size	3.2 m x 3.8m (Excavation Size)
7.	**Surge Tank**	
	Type	Surface, Circular
8.	**Penstock Pipe Length**	
	Total Steel Penstock Pipe	2712 m
9.	**Power House**	
	Type	Surface
10.	**Turbine**	
	Type	Horizontal Pelton
	Number of units	3

	Rated Output Capacity per unit	20.26 MW
11.	**Generator**	
	Type	Solid State, PID Governor
	Number of units	3
	Rated Output Capacity	22.55 MVA
	Excitation System	Brushless Type
12.	**Transformer**	
	Type	Outdoor, Oil immersed, Three Phase
	Rated Capacity	23 MVA
	Number of Units	3
13.	**Tail-Race Canal**	
	Type	Box Culvert
14.	**Transmission Line & Grid**	24 km 132 kV line up to National grid at 132 kV switchyard of Proposed NEA Hub at Garjyang Substation, Ramechhap district.
15.	**Power and Energy**	
	Gross Head	1005.65m
	Net Head at Full Flow	968.33 m
	Installed Capacity	57.5 MW
	Generated Energy per Annum	139.757 GWh, 36.61% (Dry) and 241.978 GWh, 63.39% (Wet) **Total: 381.735 GWh**
16.	**Project Road to HW & PH**	38.90 km
17.	**Approximate Cost of Project**	10,579 Million NPR (As per DDS report by DDS consultant for bank "Sanima Hydro & Engineering Pvt. Ltd.")
18.	**Approximate Construction Period:**	4 Years
19.	**Required Commercial Operation Date (RCOD)**	2081/05/01 BS 2024/08/17 AD

1.6 Investment Module

The investment in Promoters Share has been closed from Ashwin End 2075.

2. Human Resources and Good Governance

2.1 Organization Chart

The organization structure of Nupche Likhu Hydropower Project has been prepared considering Construction, Operation & Maintenance phases of the Project. The detained organization chart is presented in the official website of the company i.e. www.veplinfo.com.

2.2 Good Governance

Nupche-Likhu Hydropower Project has proposed Performance Based Incentive program for its employee. The key performance area (KPA) and Key performance index (KPI) is developed for whole project period. Based on the developed KPI the performance evaluation mechanism is developed. Further,

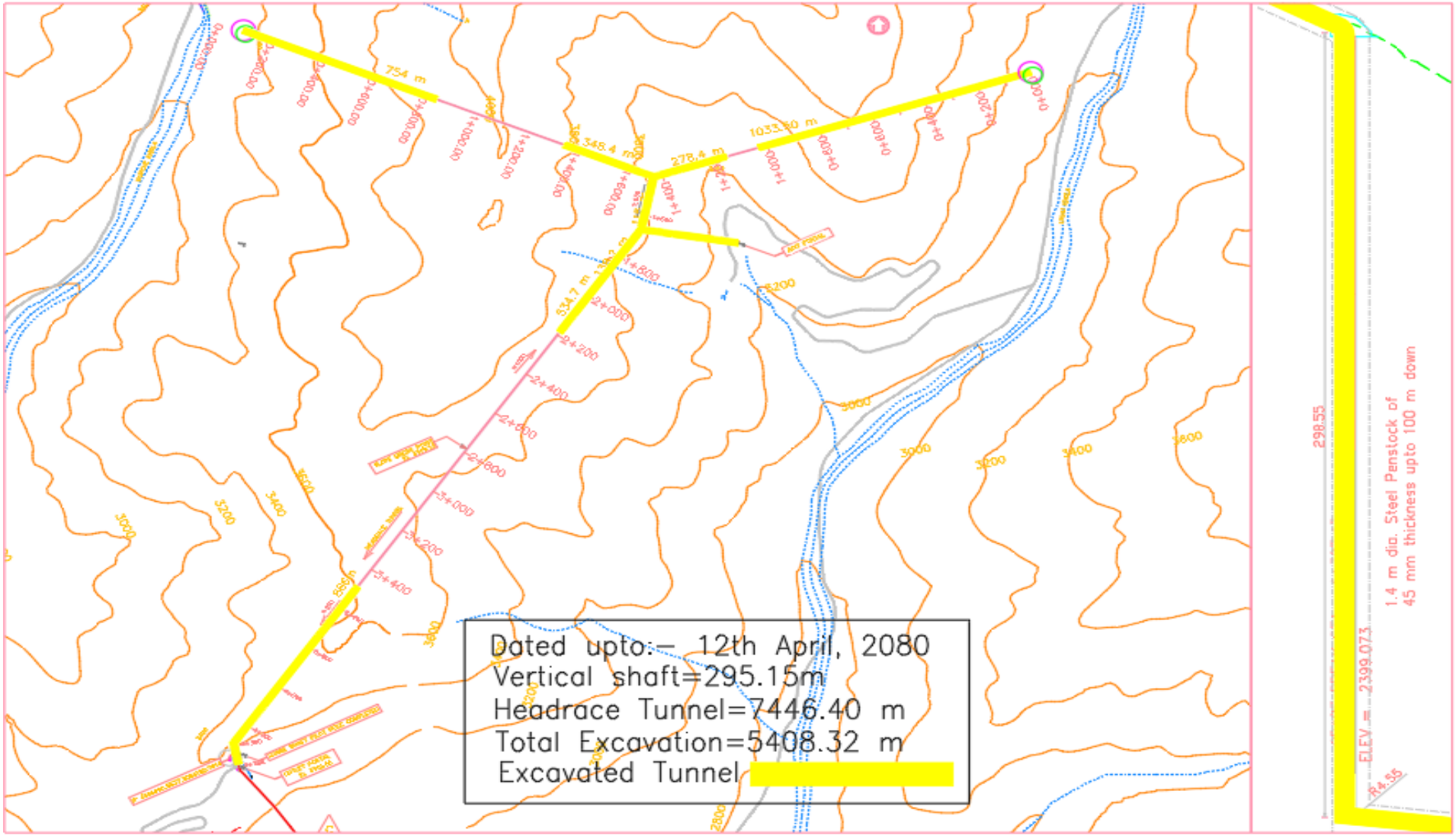
1. Various manuals such as Finance Manual, Human Resource Manual, Corporate Governance Guidelines, Performance Evaluation Guidelines, Project Management Guidelines, Administration Guidelines, Branding Guidelines, etc. are in practice.
2. Formation of various committees such as High-level Coordination Sub-Committee, Audit Committee, Local Area Co-ordination Sub-Committee and Procurement Sub-Committee.
3. Recruitment of highly professional Consultants.
4. Work plan assigned to each executive level and working level personnel.
5. Performance evaluation of each personnel conducted on quarterly basis.
6. Compliance officer appointed for legal and internal guidelines compliance.
7. Regular meeting of Board of Directors and Various Committees.
8. Unique investment module and mechanism to select quality investors.
9. Integrity, transparency, legal compliance, team work, higher return, responsibility, safe investment, accountability are the core values of the Company.

3. Project Implementation

3.1 General

The company has obtained the Generation Liscence. It has planned to generate electricity within the period of 4 years from the commencement of construction work. The Environmental Impact Assessment (EIA) for the project and Initial Environmental Examination (IEE) for the Transmission Line has been approved. The Contractors and Consultants has been mobilized to the project construction site. Detailed progress of the project is also presented in the official website of the company i.e., www.veplinfo.com.

Section B: Current Status of the Project



4. Current Status of the Project

4.1 Completed Works of the Project

4.1.1 Forest, EIA & IEE Related

A. Major Completed Works

1. **Environmental Impact Assessment (EIA)** study of Project has been approved.
2. The application for approval of '**Tree Cutting and use of Government Land**' has been approved from the Council of Ministers.
3. Procurement of Land for the replacement of the government land used by the Project has been completed.
4. The agreement between Department of National Parks and Wildlife Conservation, Department of Forests and Soil Conservation and Vision Energy and Power Pvt. for use of **'Tree Cutting and use of Government Land'** has been signed on 30th Chaitra, 2077.
5. Field Work for Tree Counting and Stamping for the project is completed in pursuant to EIA.
6. IEE for the Transmission Line has been approved on 2076-10-09 and Tree cutting and government land use for Transmission Line from cabinet of government of Nepal has been approved on 2080-04-23, also agreement with Department of National Parks and Wildlife Conservation has been concluded.
7. Submission of self EHS Audit Report to ministry of Forest and Environment.
8. Land acquisition and Agreement with the NPWC has been completed and Tree stamping completed and cutting is in progress.

4.1.2 Preliminary/Preparatory Works

A. Major Completed Works

1. **Survey License** of the project was obtained for 57.5 MW on 2074/06/29 (15/10/2017).
2. **Power Purchasing Agreement (PPA)** has been done with Nepal Electricity Authority (NEA) on 2074/11/28 (12/03/2018).
3. **Financial Closure** has been completed with Machhapuchchhre Bank Ltd. (Lead Bank), Himalayan Bank Ltd. (Co-Lead Bank), Citizens Bank International Ltd., NCC Bank Ltd., Kumari Bank Ltd., Agriculture Development Bank Ltd., Rastriya Banijya Bank Ltd., Global IME Bank Ltd.., Kamana Sewa Bikash Bank Ltd.
4. **Generation License** has been obtained on 2076/10/12.

5. The **Survey License of Transmission Line** for the 4th year i.e., up to 2078/12/14 has was renewed and has been completed.
6. The License for Transmission Line has been obtained on 2078/12/30.
7. **Automatic Gauge Station** has been installed at Nupche & Likhu Intake site.
8. **Hydroelectricity Investment and Development Company** (HIDCL) has approved to invest in equity share capital of Vision Energy & Power Ltd (VEPL).
9. **Detailed Engineering Design** of the Project & Transmission Line has been completed.
10. The **Construction of main Camp House and associated facilities** has been completed.
11. **Bank's consultants** for the project have been selected.
12. The Company's Senior Management team including the Chairman, Board of Directors, General Manager, Project Director **launched blasting process** for the Penstock Tunnel and Vertical Shaft construction work on *12th Ashwin 2078*.
13. The **Supervision & Management Consultants, Civil Contractor, Explosives Suppliers, Electromechanical Contractor, Hydromechanical Contractor and Transmission Line Contractor** has been selected and agreement has been signed.
14. Land acquisition for the Project has been completed.

B. Other Completed Works

1. Road widening and strengthening for the transportation of Generators and Transformer.
2. Completion of Construction Power Line of Nupche.

4.1.3 Civil Works

A. Major Completed Works

1. Powerhouse Roofing has been completed.
2. Internal and external plastering works in super structure of the powerhouse has been completed and installation of doors and windows is in the final stage.
3. Transformer foundation has been completed.
4. Construction of Tailrace Canal has been completed.
5. Powerhouse is in the final stage of handover to EM Contractor.
6. Excavation of HRT (Headrace Tunnel) from Outlet about 1420.70 m (52.06%) completed out of 2728.6m;

7. Excavation of HRT from Likhu Inlet to Nupche Likhu Junction about 1311.4 (92%) has been completed out of 1426.25m;
8. Excavation of HRT from Nupche Inlet about 1102.4 m (68.94%) has been completed out of 1599m;
9. Excavation in Surge Shaft has started with progress of 5.5 m and pilot hole drilling of 32 m; out of 41m has been completed.
10. The total Headrace Tunnel of 5408.32 (72.62%) has been completed out of 7446.40;
11. Completion of Concreting at the Vertical Shaft bend VS2.
12. Likhu HWs is on the verge of completion, approx. 98% of civil works of Likhu HWs has been completed.
13. Completion of concreting Anchor Block from 1 to 15 and 18 has been completed and backfilling works of Anchor Block from 1 to 15 and AB 18 for Likhu Headrace pipe.
14. Along the Likhu HRP, 16 Anchor Blocks out of 26 has completed.
15. Along the penstock alignment, 8 Anchor Blocks out of 27 has completed.
16. Completion of First stage river diversion and Concreting of Floodwall at left bank and cutoffs D/S the main cutoff has been completed in Nupche HWs area.
17. Excavation of Intake, Bed load trap, Gravel trap and Approach culvert has been completed.

B. Other Completed Works

1. Masonry wall in the boundary of switchyard for the protection has been completed.
2. Foundation works of transformer part of switchyard has been completed.
3. Completion of concreting of AB4 to AB7 along Nupche HRP.

4.1.4 Electromechanical Works

A. Major Completed Works

1. Erection of Powerhouse EOT crane has been completed.
2. Factory Acceptance Test of Pelton Turbine Runner has been completed.
3. Transportation of Generators, Transformer has been completed.
4. Earth mat laying in transformer area, control building area has been completed.
5. Location Finalization of valve house, firefighting tanks at site.

B. Other Completed Works

4.1.5 Hydro mechanical Works

A. Major Completed Works

1. Frame installation for second phase concreting has been completed in Likhu headworks.
2. Erection of pipes bends in the Vertical Shaft has been completed and erection on PT is in progress.
3. Erection of pipes 41.51% has been progressively completed.

B. Other Completed Works

1. Installation of embedded parts in Nupche HWs components is in progress and gate frames being installed at Likhu HWs.
2. Transportation of the pipes to the Nupche yard is completed.

4.1.6 Transmission Line

A. Major Completed Works

1. 70% of tower material has been received to the site.
2. 28% of pit marking has been completed.
3. 37.81% excavation of tower foundation has been completed.
4. 19.38% of Tower foundation has been completed with back filling of Pit.

B. Other completed works

1. Tree cutting has been started in ROW area along the transmission line.

4.1.7 Planning, Governance and Other Works

A. Major Completed Works

1. The Company has received ISO 9001:2015 Certificate on 2021-02-02.

4.2 Ongoing Works of the Project

4.2.1 Forest and EIA Related Works

A. Major Ongoing Works

1. Agreement with NPWC to start tree stamping and tree cutting along the transmission line.

2. Implementation and follow-up of environmental and social management plan throughout the construction phase to achieve good environmental outcomes as per approved EIA

4.2.2 Preliminary/Preparatory Works

A. Major Ongoing Works

1. Road strengthening and routine maintenance of access road.

B. Other Ongoing Works

4.2.3 Civil Works

A. Major Ongoing Works

1. Base preparation for Control building.
2. Excavation of HRP alignment along Likhu HRP in AB16 to AB 18.
3. Excavation of Nupche intake, gravel trap and approach canals.
4. RCC works in settling basin in Nupche settling basin, with Kholsi crossing structures
5. Excavation and PCC along the Nupche Headrace Pipe alignment.
6. HRT excavation from 5 tunnel faces.
7. Concreting anchor blocks along AB17-AB23 in Penstock alignment.
8. Pilot hole for the excavation complete of Surge shaft; with safety shotcrete.
9. Final shotcrete and invert lining in the Likhu inlet area is in progress.

B. Other Ongoing Works

1. Planning of excavation of temporary road for to ease work in penstock alignment AB17- AB21.

4.2.4 EM (Electromechanical) Works

A. Major Ongoing Works

1. Manufacturing of Embedded parts for the transformer rails.
2. Ongoing transportation of the Turbine runner.
3. Laying of Earthmat under control building and the transformer foundation.

B. Other Ongoing Works

1. Delivery of heavy equipment to the project site.

4.2.5 HM (Hydro-mechanical) Works

A. Major Ongoing Works

1. Transportation of leaf of the gate frames.
2. Erection of the pipe along AB3- AB7 and AB17-AB23along penstock alignment.
3. Installation of Bend at 3, 8, 16, 23 along penstock alignment.
4. Installation of bend 2 and 3 along Nupche Headrace pipe.

B. Other Ongoing Works

1. Testing and Rectification of the HM pipes and accessories.

4.2.6 Transmission Line

A. Major Ongoing Works

1. Tree cutting and excavation in remaining tower alignment is in progress.
2. Pit marking of the tower and survey and establishment of camp in other front along the tower alignment.

B. Other Ongoing Works

4.2.7 Planning and Other Works

A. Major Ongoing Works

1. Investment in nearby small and other large projects has been started;

B. Others Ongoing Work

4.3 Challenges Faced:

Though the company is committed to complete the work in stipulated time and schedule, company struggles to tackle the project management challenges and issues related to the processes and directions of government, local community, site condition etc. The major challenges we have faced are.

1. Testing and rectification of the HM pipes and accessories.
2. Local and Social issues related to land acquisition along alignment of Transmission line.
3. Delay in erection of VS2 bend in vertical Shaft.
4. Ventilation duct issues in Tunnel excavation.

Management Plan for the Mitigation of Challenge:

1. Engagement of 3rd party consultant and contractor for rectification of HM pipes.
2. Co-ordination with local authority and local people about the issue.
3. Timely follow up of resources management.
4. Efficient actions for appointment of the 3rd party in case of urgent cases.

4.4 Physical Progress

Vision Energy & Power Ltd records physical progress data on every construction work of the Nupche Likhu Hydropower Project. The objective and realistic measurement of physical progress during a construction project is a key element for successful project management in providing as-built information for project planning, control, cost engineering, and many others. Progress measurement is an input directly used to help determine the earned value of a project and forecasts such as cost at completion and estimated finished date. The evaluation of project physical progress has been prepared by weighted method which is highlighted as the best and realistic technique to determine the percentage complete of the overall project. Below is the physical and financial progress data up to **30th Chaitra, 2080**.

Physical Progress vs. Financial Progress

SN	Activities	Physical Progress	Financial Progress
1	Civil Works	65.36%	63.64%
2	Electromechanical Works	71.08%	31.28%
3	Hydro Mechanical Works	81.78%	93.02%
4	Transmission line & Interconnection	55.24%	76.05%
5	Land Acquisition/ Compensation/Development	84.31%	63.65%
6	Construction Design, Drawing and DPR	97.83%	24.39%
7	Office Building including Camp Facilities	100.00%	40.95%
8	Infrastructure Development (Temporary and Permanent)	86.38%	81.55%
9	Environment Mitigation and Social Responsibility	59.69%	134.92%

OVERALL PHYSICAL PROGRESS ACHIEVED: 71.62%

4.5 Financial Progress

Vision Energy & Power Ltd. records important financial data on every aspect of a business's activities. As such they can be evaluated on the basis of past, current, and projected performance.

Below is the financial progress data to manage the operations of our business and also to provide reporting transparency to our stakeholders

Allocated Budget Vs. Actual Utilization Up to 30th Chaitra, 2080

SN	Particulars	Amount (Rs.)	Utilization Up to 30th Chaitra, 2080 (Rs.)	Utilization %
1	Preliminary Works	246,969,000	246,051,846	99.63%
2	Civil Works	3,765,706,000	2,396,600,075	63.64%
3	Electromechanical Works	1,566,438,000	489,932,076	31.28%
4	Hydro Mechanical Works	1,133,371,000	1,054,311,724	93.02%
5	Transmission line & Switchyard	474,075,000	360,537,506	76.05%
6	Land Acquisition/ Compensation/Development	127,050,000	80,863,125	63.65%
7	Project Supervision/Management and Engineering	414,549,000	285,384,580	68.84%
8	Construction Design, Drawing and DPR	114,356,000	27,886,932	24.39%
9	Office Building including Camp Facilities	226,479,000	92,744,741	40.95%
10	Office Equipment	40,342,000	14,835,240	36.77%
11	Vehicle	88,990,000	23,417,477	26.31%
12	Infrastructure Development (Temporary and Permanent)	780,470,000	636,476,750	81.55%
13	Environment Mitigation and Social Responsibility	106,680,000	143,936,435	134.92%
14	General Expenses	73,501,000	-	0.00%
15	Loan Documentation Fee	69,685,000	61,638,528	88.45%
16	Interest During Construction	1,349,797,000	518,706,314	38.43%
	Total	**10,578,458,000**	**6,433,323,348**	**60.82%**

Total Share Capital as on 30th Chaitra 2080: - NPR 1,979,508,239.00

4.6 Loan Details

Total loan from 10th Consortium Banks is 7 Arab 93 Crores. Loan disbursement till this period is NPR 4,363,371,671.00.

4.7 Planning for the next quarter

a) Routine Maintenance of Access Roads
b) Kholsi-Protection of Powerhouse
c) Handover of the Powerhouse to EM.
d) Installation of transformer.
e) Completion of control Building
f) Completion of excavation and finishing work of Surge shaft(30m).
g) Breakthrough of Likhu inlet.
h) Completion of concreting and backfilling of Anchor Block (AB) from 3 to 23 at Nupche HRP
i) Start installation of pipes in Vertical shaft and Inclined Tunnel; along with the infill of concrete.
j) Excavation of 85% of the Headrace Tunnel.
k) Completion of 100% of Headrace Pipe Works.
l) Completion of 90% of Penstock Pipe Works.
m) Completion of 90% of the Nupche Headworks.
n) Installation of gate at Tailrace.
o) Erection of 40 nos of towers along transmission line.

ANNEX – 1: SOME PHOTOGRAPHS OF WORK PROGRESS

Figure : Base preparation of Control Building.

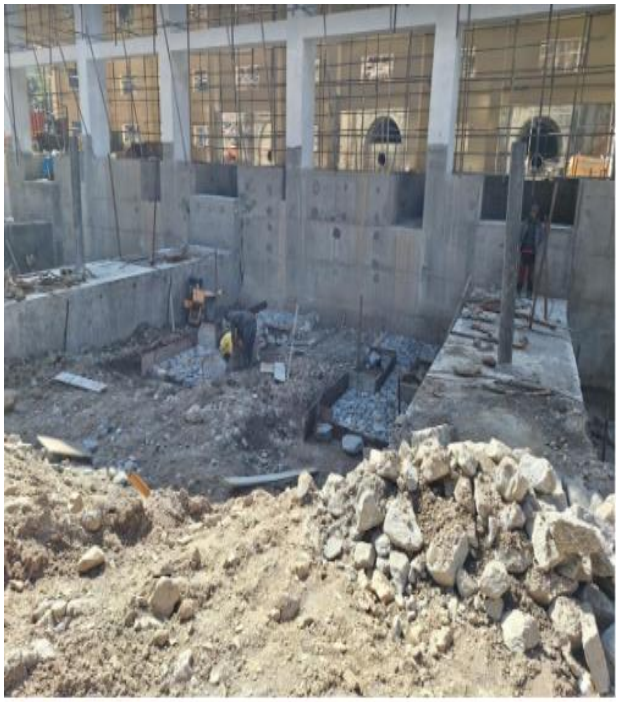


Figure: Superstructure of Powerhouse and concreting at switchyard part.

Figure showing: EOT Crane Testing and Commissioning inside Powerhouse

Figure:- Transformer foundation

Figure: Vertical Shaft

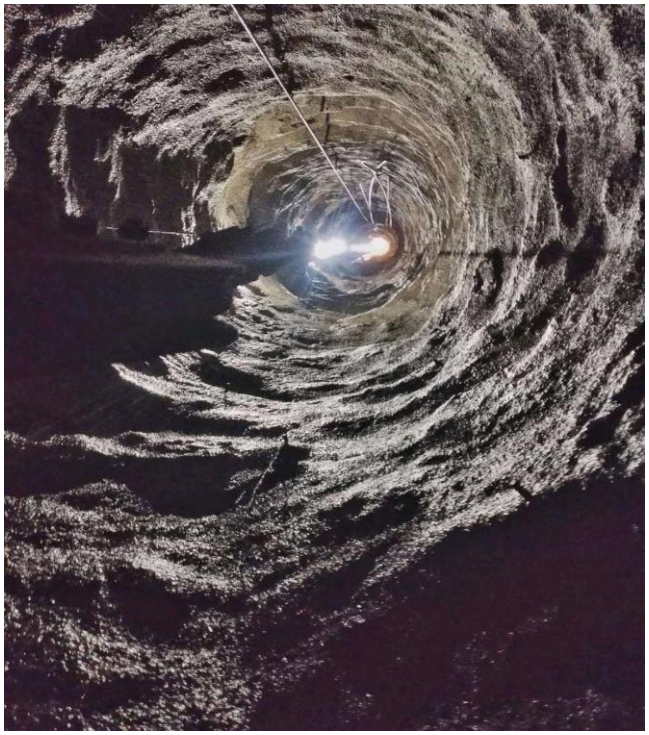


Figure showing Load Test at Vertical Shaft

Figure: Likhu HRP after snowfall

Figure: Erection of pipe at Penstock Tunnel

Figure: Completion of AB18

Figure: Concreting of Anchor Block along penstock pipe alignment.

Figure: Surge Shaft Drilling

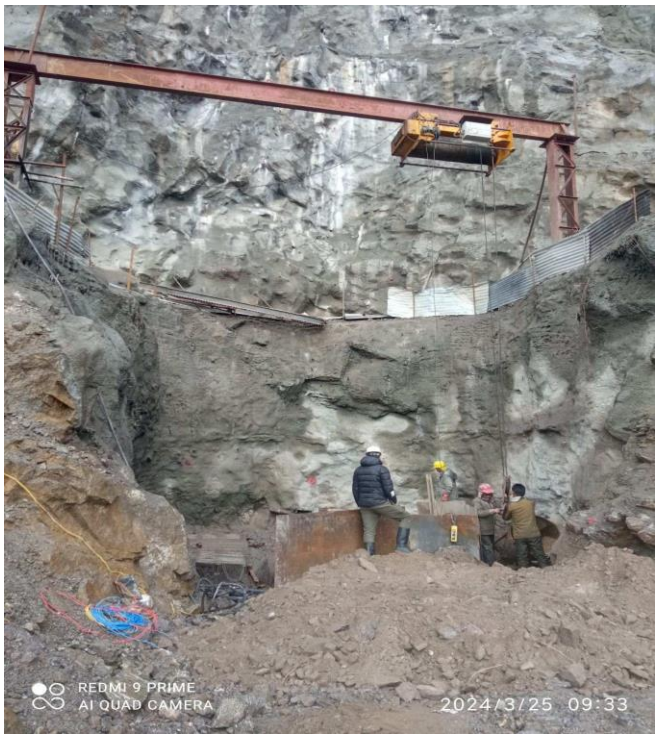


Figure: Mucking Work of Pilot Hole

Figure: Adit Junction

Figure: Nupche Face

Figure: Likhu Inlet Face Stabilization

Figure: Outlet Face

Figure: NL Junction to Nupche

Figure: Adit D/S

Figure: NL Junction HRT

Figure: Rib Installation and stone packing at Nupche.

Figure: Khosli crossing at Likhu Headworks

Figure: Intake & operation building

Figure: Likhu Settling Basin during Winter.

Figure: Pcc work at Anchor Block 22 along penstock

5.3: Blinding Concrete in AB-22 Penstock.

Figure: Nupche Settling Basin superstructure

Figure: Nupche floodwall and cutoffs

Figure:Concreting of Flushing Culvert

Figure: Back Filling Works

Figure: Static Balancing of Runner

Figure: Gap measurement between template and Bucket

Figure: Checking of Bucket width

Figure: MIV Downstream body Casing

Figure: Inspection of CTs

Figure: Unit 1 branch pipe concreting.

Figure: Gap Measurement check between template and bucket

Figure: Transportation of Transformer.

Figure: Excavation in Pit in Tower 6/2

Figure: FAT Inspection or Cable Wire

Figure: RCC in Tower Foundation with Stub

Figure: Measuring Tensile Strength of Cable Wire

THANK YOU!