

NUPCHE LIKHU HYDROPOWER PROJECT (57.5 MW)

Ramechhap, Nepal



Project Progress Report Kartik, 2080 – Poush, 2080



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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 Kartik 2080 to Poush 2080. The major achievements during the period are:

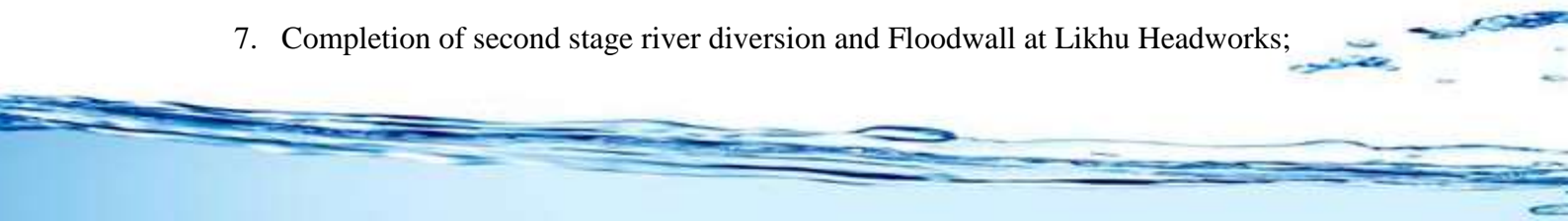
A. Forest and EIA/IEE Related Works

1. 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.
2. Continuation of Tree Plantation in overall Project site;
3. Initiation of tree cutting and stamping in TL area
4. Monitoring the dust control village area at site.

B. Preliminary/Preparatory Works

1. The road strengthening and routine maintenance of project's access road has been continued.
2. Construction of Bunker for storage of more explosives is in final stage.
3. River diversion works and road widening for heavy EM equipment delivery has been started.

C. Civil Works

1. Excavation of HRT (Headrace Tunnel) from Outlet about 1100.2 m (40%) completed out of 2728.6m;
 2. Excavation of HRT from Likhu Inlet to Nupche Likhu Junction about 1155.74 (81.03%) has been completed out of 1426.25m;
 3. Excavation of HRT from Nupche Inlet about 834.65 m (52.19%) has been completed out of 1599m;
 4. Excavation in Surge Shaft has started with progress of 5.5 m and pilot hole drilling of 14.05m; out of 36.62 m.
 5. The total Headrace Tunnel of 4749.81 (63.76%) has been completed out of 7448.72;
 6. Final shotcrete in the Likhu inlet has been with progress of 400 m started.
 7. Completion of second stage river diversion and Floodwall at Likhu Headworks;
- 

8. Completion of concreting and backfilling works of Anchor Block from 1 to 15 for Likhu Headrace Pipe.
9. First stage river diversion works at Nupche headworks.
10. Construction of 30% of Flood wall construction has been completed.
11. Construction of Nupche Headworks Settling Basin has been 85% completed.
12. Along the Nupche Headrace pipe, AB4 to AB7 work ongoing and concreting in AB5 and AB 6 has been completed.
13. Along the penstock alignment, 7 nos of Anchor block have been completed.
14. Power house is 90% completed.
15. Transformer foundation and Switchyard works has been started.
16. Relocation and calibration of the batching plant and installation of weighing machine

D. Electromechanical (EM) Work

1. Delivery of the EOT crane to site.
2. Delivery of 3 units of generator at the border, after factory inspection tests
3. Factory inspection of CT/PT has been completed.
4. Inspection of Machine pit by EM representative.

E. Hydro mechanical (HM) Works

1. HM accessories for gates has been reached to site and frame installation has been started in Likhu Headworks.
2. 32% of Pipes erection has been completed. The details are as follows:

| | |
|---|--------|
| Penstock | 23.6% |
| Vertical Shaft | 0% |
| Horizontal Shaft | 0% |
| Bifurcation and Manifolds (Branch pipe) | 59% |
| Likhu HRP | 66.15% |
| Nupche HRP | 32.71% |

3. Preparatory works in Vertical Shaft has been completed and the installation of VS2 bend is in progress.

F. Transmission Line

1. 70% of tower material has been dispatched to site.
2. 28% of pit marking has been completed.
3. 19.4% excavation of tower foundation has been completed.
4. 10% of Tower foundation has been completed with back filling of Pit.

G. Planning, Governance and Other Works

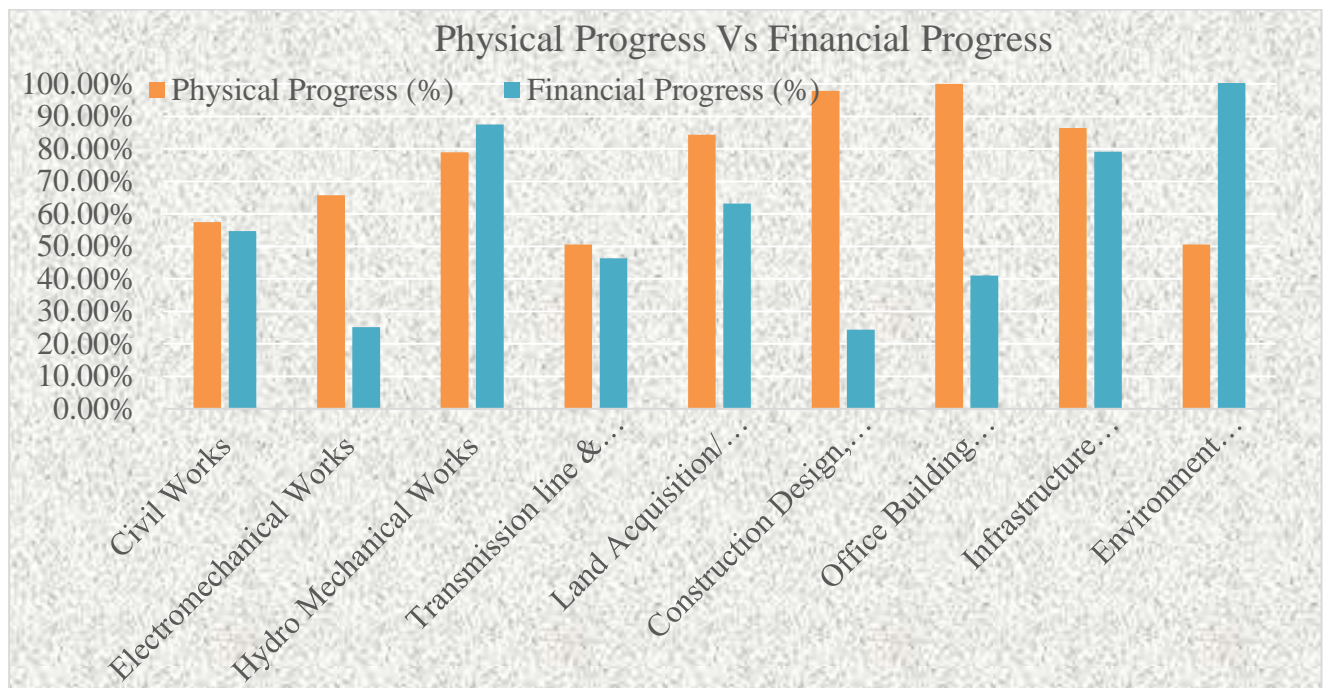
1. Investment in nearby small and other large projects has been initiated;
2. Some of the major plan for next quarter is discussed in detail report. Please refer to the status of the project below;
3. Development and Implementation of Strategy to increase Productivity;

H. Any Bottlenecks

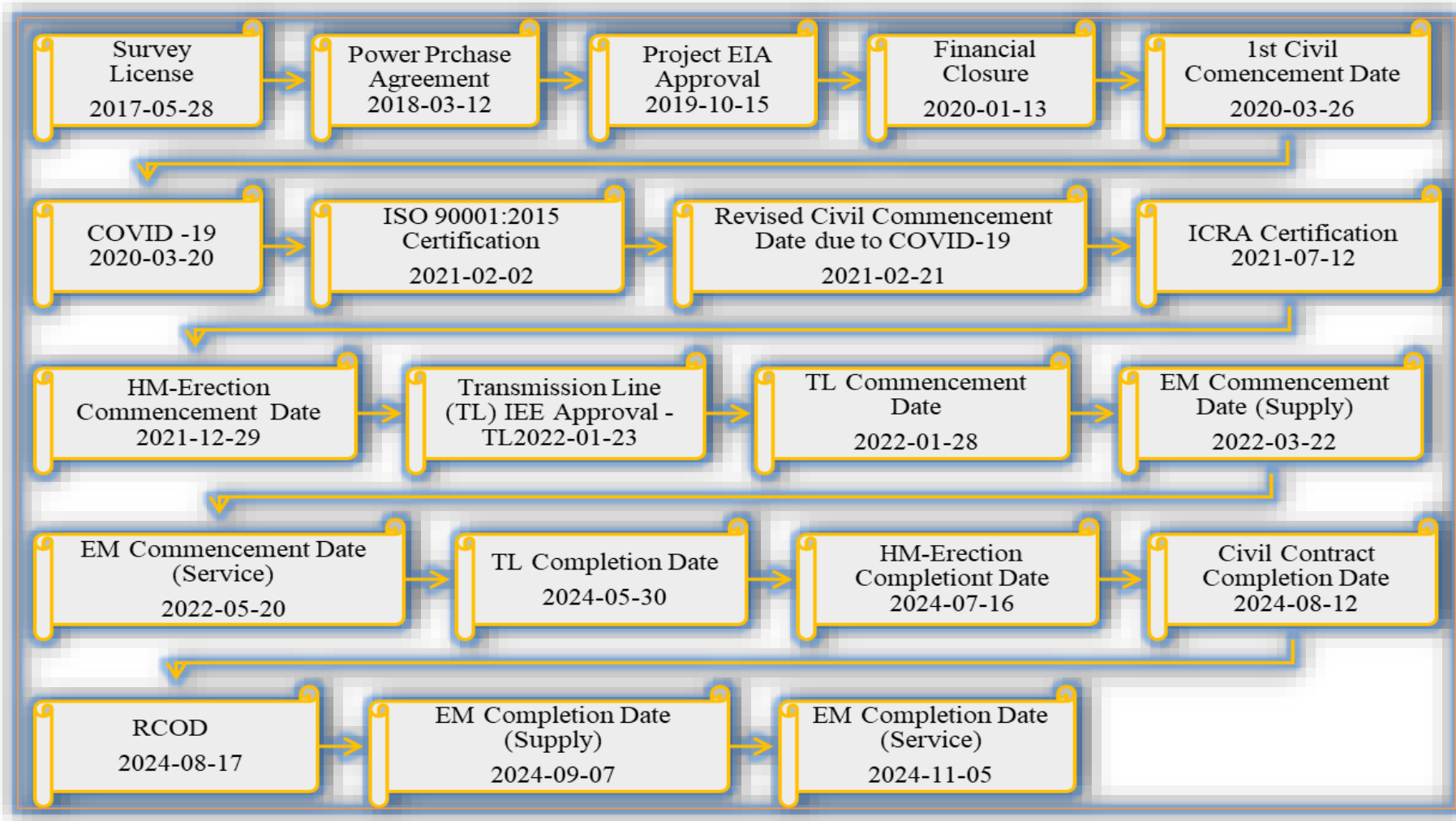
1. Rectification in Branch pipes and Hydro mechanical accessories.
2. Breakdown of machineries and remobilization of the manpower after festive season.

I. Financial and Physical Progress

1. Till the date 53.14% of the budget has been utilized and about 66.34% of the overall physical progress has been achieved;



J. NLHP Project's Major Timeline



Contents

Section A- About the Project

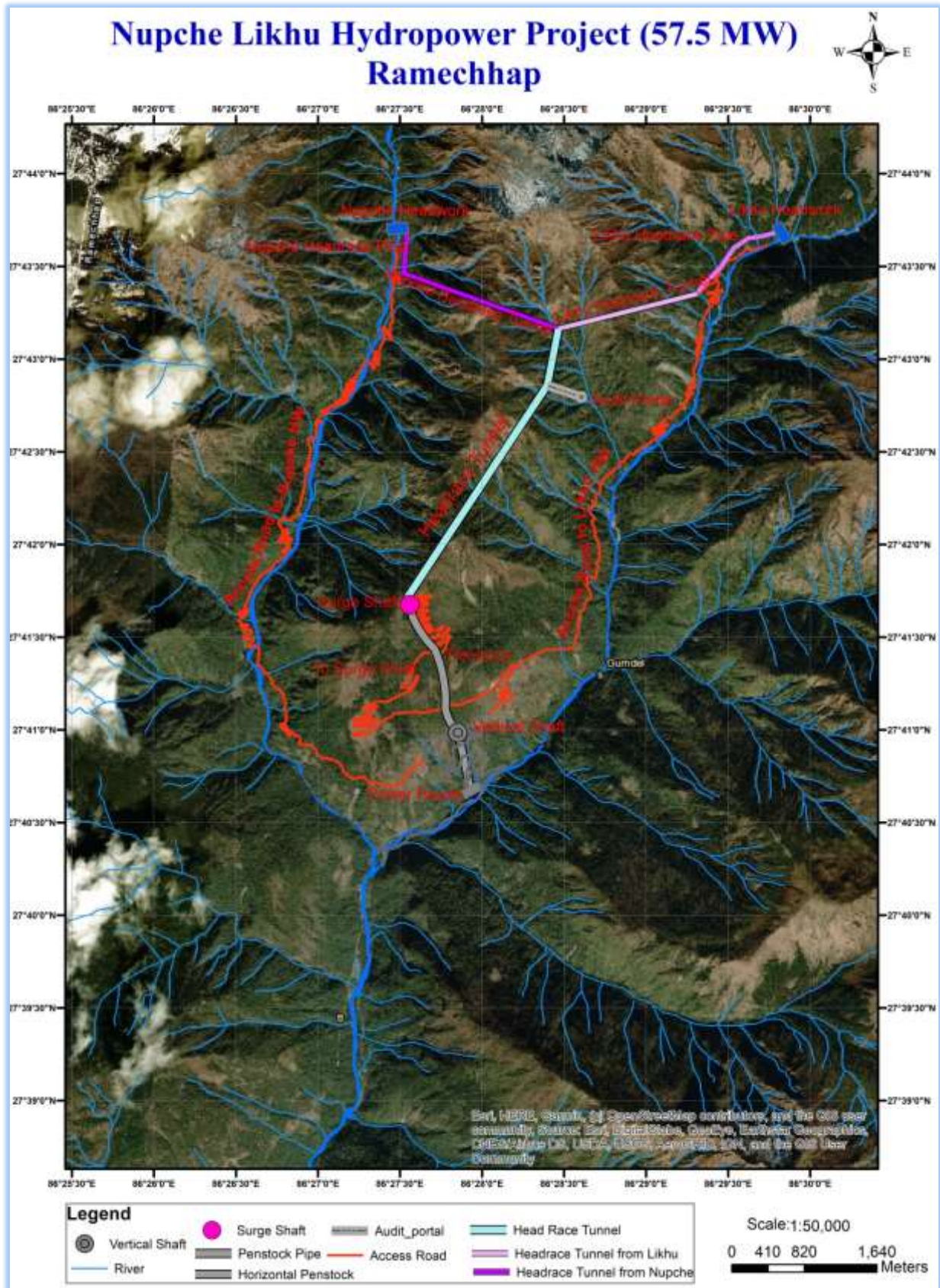
| | |
|--|----------|
| 1. Introduction..... | 2 |
| 1.1 Background..... | 2 |
| 1.2 About the Project..... | 2 |
| 1.3 Location & Access: | 2 |
| 1.4 Main Financial Features of the Project..... | 2 |
| 1.5 Salient Features of the Project..... | 3 |
| 1.6 Investment Module | 4 |
| 2. Human Resources and Good Governance..... | 4 |
| 2.1 Organization Chart | 4 |
| 2.2 Good Governance | 5 |
| 3. Project Implementation..... | 5 |
| 3.1 General..... | 5 |
| 4. Current Status of the Project..... | 7 |
| 4.1 Completed Works of the Project | 7 |
| 4.1.1 Forest, EIA & IEE Related..... | 7 |
| 4.1.2 Preliminary/Preparatory Works..... | 7 |
| 4.1.3 Civil Works | 8 |
| 4.1.4 Electromechanical Works..... | 9 |
| 4.1.5 Hydro mechanical Works..... | 9 |
| 4.1.6 Transmission Line | 10 |
| 4.1.7 Planning, Governance and Other Works | 10 |
| 4.2 Ongoing Works of the Project | 10 |
| 4.2.1 Forest and EIA Related Works..... | 10 |
| 4.2.2 Preliminary/Preparatory Works..... | 10 |
| 4.2.3 Civil Works | 10 |
| 4.2.4 EM (Electromechanical) Works | 11 |
| 4.2.5 HM (Hydro-mechanical) Works..... | 11 |
| 4.2.6 Transmission Line | 11 |



| | | |
|---|-------------------------------------|----|
| 4.2.7 | Planning and Other Works | 12 |
| 4.3 | Challenges Faced:..... | 12 |
| 4.4 | Physical Progress | 12 |
| 4.5 | Financial Progress..... | 13 |
| 4.6 | Loan Details..... | 14 |
| 4.7 | Planning for the next quarter | 14 |
| ANNEX – 1: SOME PHOTOGRAPHS OF WORK PROGRESS..... | | 15 |



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 Ramechhap 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 m³/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. | <u>General</u> | |
| | Name of the Project | Nupche Likhu Hydropower Project |
| | Type of the Project | Snow fed Run-off River Hydropower Project |
| 2. | <u>Location</u> | |
| | Zone/ Development Region | Janakpur Zone/Central Development Region |
| | District | Ramechhap |
| | Project Location | Umakunda Rural Municipality, (Gumdel VDC) |
| | River | Nupche Khola and Likhu Khola |
| | <u>License Boundary</u> | |
| | Longitude | 86°26'30" E - 86°30'30" E |
| | Latitude | 27°40'37" N - 27°43'43" N |
| 3. | <u>Hydrology</u> | |
| | 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. | <u>Nupche & Likhu- Headworks</u> | |
| | 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. | <u>Headrace Pipe</u> | |
| | Headrace Pipe | 480m & 1096 m (Nupche & Likhu) |
| 6. | <u>Tunnel Length</u> | |
| | Total Length | 7475 m |
| | Tunnel Size | 3.2 m x 3.8m (Excavation Size) |
| 7. | <u>Surge Tank</u> | |
| | Type | Surface, Circular |
| 8. | <u>Penstock Pipe Length</u> | |
| | Total Steel Penstock Pipe | 2712 m |
| 9. | <u>Power House</u> | |
| | Type | Surface |
| 10. | <u>Turbine</u> | |
| | Type | Horizontal Pelton |
| | Number of units | 3 |
| | Rated Output Capacity per unit | 20.26 MW |

| | | |
|-----|--|--|
| 11. | <u>Generator</u> | |
| | Type | Solid State, PID Governor |
| | Number of units | 3 |
| | Rated Output Capacity | 22.55 MVA |
| | Excitation System | Brushless Type |
| 12. | <u>Transformer</u> | |
| | Type | Outdoor, Oil immersed, Three Phase |
| | Rated Capacity | 23 MVA |
| | Number of Units | 3 |
| 13. | <u>Tail-Race Canal</u> | |
| | Type | Box Culvert |
| 14. | <u>Transmission Line & Grid</u> | 24 km 132 kV line up to National grid at 132 kV switchyard of Proposed NEA Hub at Garjyang Substation, Ramechhap district. |
| 15. | <u>Power and Energy</u> | |
| | 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. | <u>Project Road to HW & PH</u> | 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, Investment Manual, Corporate Governance Guidelines, Performance Evaluation Guidelines, Project Management 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 International Co-ordination 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.

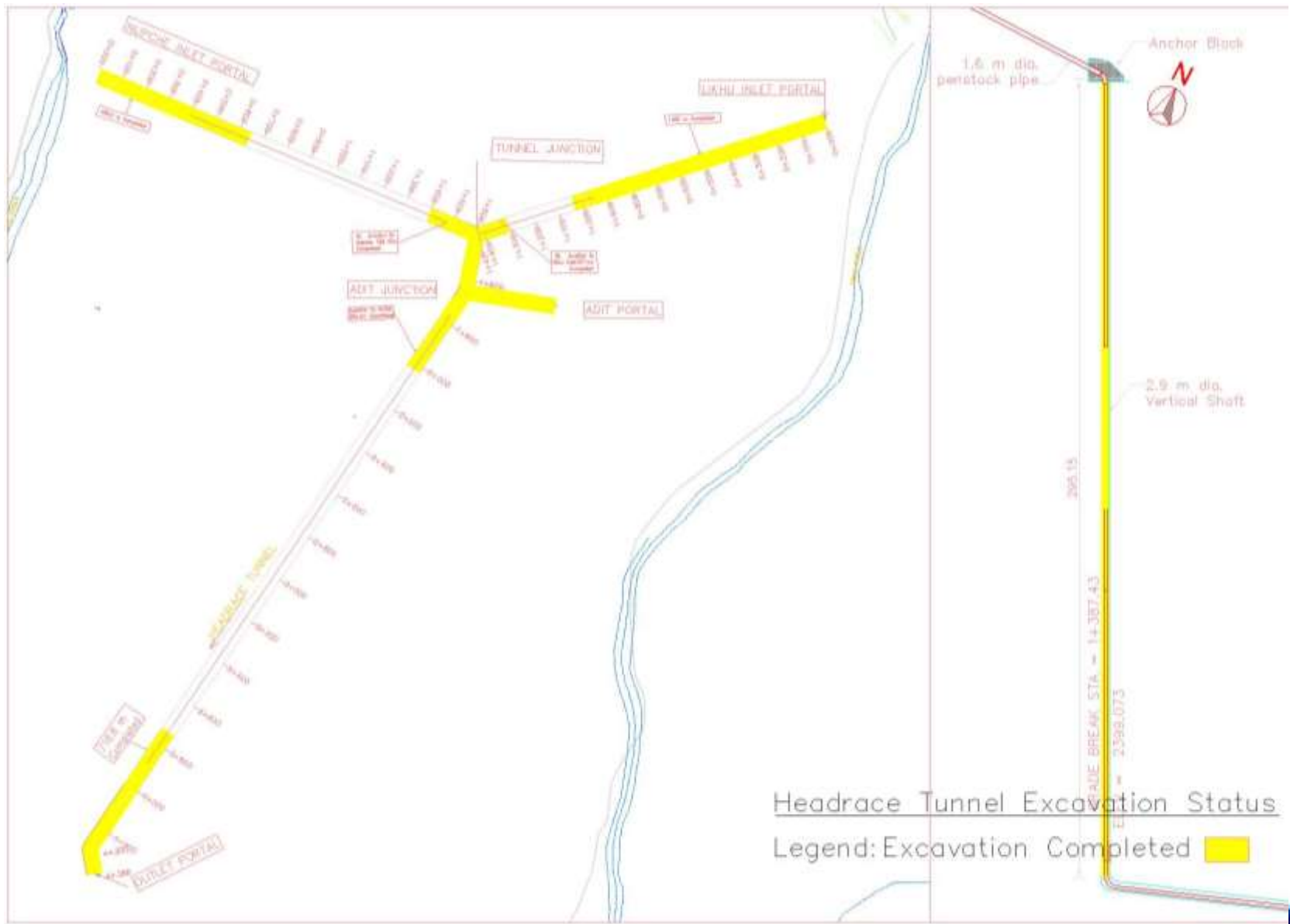
3. Project Implementation

3.1 General

The company has obtained the Generation License. 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 Supervision & Management Consultants, Civil Contractor, Explosives Suppliers, Electromechanical Contractor, Hydromechanical Contractor and Transmission Line Contractor has been selected and agreement has been signed. The Civil and HM Contractor has been mobilized to the project construction site and has started the construction. 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 been 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 Strengthening and routine maintenance.
2. Completion of Construction Power Line of Nupche.

4.1.3 Civil Works

A. Major Completed Works

1. Fabrication of Truss element for Roofing has been completed.
2. Internal and external plastering works in super structure of the powerhouse has been completed.
3. Tailrace of the construction is in the final stage of the construction.
4. Excavation of HRT (Headrace Tunnel) from Outlet about 1100.2 m (40%) completed out of 2728.6m;
5. Excavation of HRT from Likhu Inlet to Nupche Likhu Junction about 1155.74 (81.03%) has been completed out of 1426.25m;
6. Excavation of HRT from Nupche Inlet about 834.65 m (52.19%) has been completed out of 1599m;
7. Excavation in Surge Shaft has started with progress of 5.5 m and pilot hole drilling of 14.05m; out of 36.62 m.
8. The total Headrace Tunnel of 4749.81 (63.76%) has been completed out of 7448.72;
9. Completion of preparatory works in Vertical Shafts.



10. Second stage diversion of the river in likhu head works with the left flood wall gabion construction.
11. Likhu headworks is in its final stage of the construction, few finishing work is yet to complete.
12. Along the Likhu HRP, 16 Anchor Blocks out of 26 has completed.
13. Along the penstock alignment, 7 Anchor Blocks out of 27 has completed.
14. About 85% of Nupche settling basin in headworks area has been completed till end of Poush 2080.
15. First Stage river diversion and Concreting in Flood wall has been started.

B. Other Completed Works

1. Masonry wall in the boundary of switchyard for the protection has been completed.
2. Foundation works of transformer and switchyard has been started.

4.1.4 Electromechanical Works

A. Major Completed Works

1. Delivery of Powerhouse EOT crane and valve house HOT crane up to Site
2. Inspection of crane beam and machine pit by EM contractors.
3. Factory inspection of Generators, transformers and CT/PTs; and material has reached to border.
4. NGT/LAVT panel has reached to the border.
5. MIV Rotor and Body casting completed
6. Turbine housing fabrication including Runners for unit-1, 2 and 3 are ready at the factory.
7. Earth mat laying in transformer area, control building area has been completed.

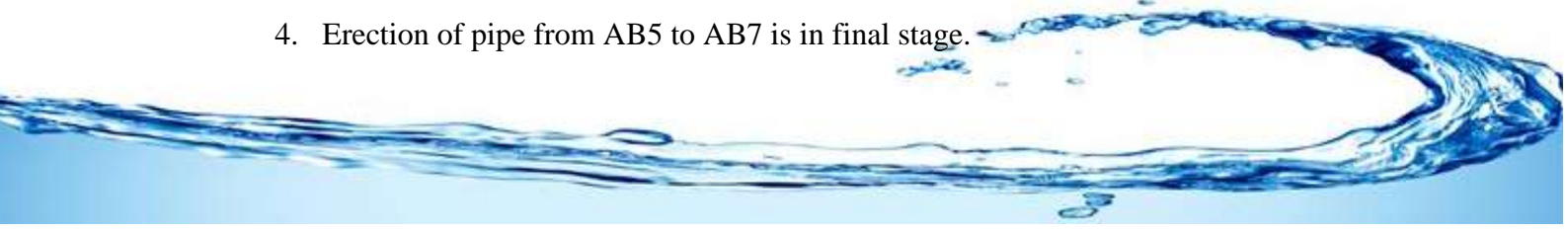
B. Other Completed Works

1. Order placement and inspection for auxiliary equipment.
2. Delivery of Generator and transformer, arrived at border.

4.1.5 Hydro mechanical Works

A. Major Completed Works

1. Frame installation for second phase concreting has been completed in likhu headworks.
2. Preparatory works in the VT has been completed and installation.
3. Erection of pipes 32% has been progressively completed.
4. Erection of pipe from AB5 to AB7 is in final stage.



B. Other Completed Works

1. Installation of embedded parts in settling basin and intakes in civil interface is continued.
2. Transportation of the pipes to the Nupche yard is in final stage.

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. 19.4% excavation of tower foundation has been completed.
4. 10% 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 strengthen and routine maintenance of access road.

B. Other Ongoing Works**4.2.3 Civil Works****A. Major Ongoing Works**

1. Foundation 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 AB20-AB26 in Penstock alignment.
8. Pilot hole for the excavation 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 AB20-AB26.

4.2.4 EM (Electromechanical) Works

A. Major Ongoing Works

1. Manufacturing of Embedded parts for the transformer rails.
2. Ongoing manufacturing 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. Fabrication of leaf of the gate frames.
2. Erection of the pipe along AB3- AB7 and AB18-AB20 along penstock alignment.
3. Installation of Bend at 3, 8, and 16 along penstock alignment.
4. Installation of bend 4 and 7 along Nupche Headrace pipe.

B. Other Ongoing Works

1. Installation of the VS2 bend.
2. Testing and Rectification of the HM pipes and accessories.

4.2.6 Transmission Line

A. Major Ongoing Works

1. Tree cutting in the tower area 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.

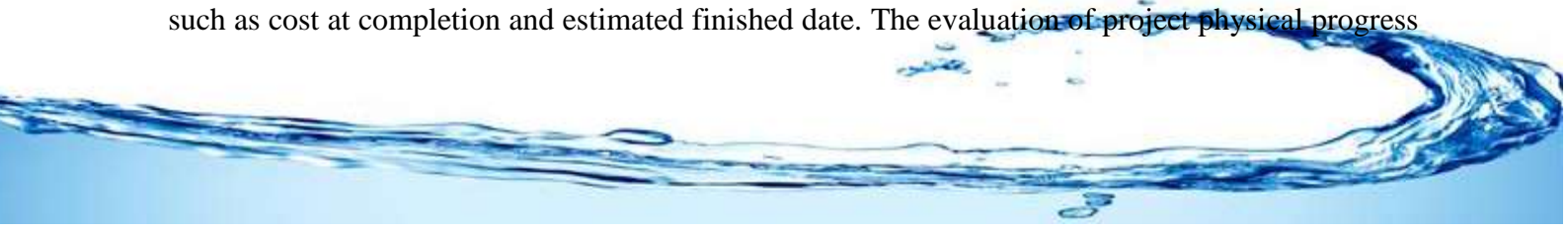
1. Difficulty in remobilization of the manpower after the festive season, also due to extreme weather condition.
2. Regulation of Explosive.
3. Testing and rectification of the HM pipes and accessories.
4. Local and Social issues related to land acquisition along alignment of Transmission line.
5. Instability issues in Adit to outlet tunnel.
6. Delay in dewatering in vertical Shaft.
7. Ventilation duct issues in Tunnel excavation.

Management Plan for the Mitigation of Challenge:

1. Co-ordination with local authority and local people about the issue.
2. Timely follow up of resources management.
3. 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 **29th Poush 2080**.

Physical Progress vs. Financial Progress

| SN | Activities | Physical Progress | Financial Progress |
|----|--|-------------------|--------------------|
| 1 | Civil Works | 57.41% | 54.68% |
| 2 | Electromechanical Works | 65.68% | 25.15% |
| 3 | Hydro Mechanical Works | 78.93% | 87.49% |
| 4 | Transmission line & Interconnection | 50.52% | 46.30% |
| 5 | Land Acquisition/ Compensation/Development | 84.31% | 63.13% |
| 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% | 79.11% |
| 9 | Environment Mitigation and Social Responsibility | 50.52% | 132.95% |

OVERALL PHYSICAL PROGRESS ACHIEVED: 66.34%

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 29thPoush, 2080

| SN | Particulars | Amount (Rs.) | Utilization Up to 30th Ashwin, 2080 (Rs.) | Utilization % |
|----|--|---------------|---|---------------|
| 1 | Preliminary Works | 246,969,000 | 246,051,846 | 99.63% |
| 2 | Civil Works | 3,765,706,000 | 2,059,168,272 | 54.68% |
| 3 | Electromechanical Works | 1,566,438,000 | 394,022,927 | 25.15% |
| 4 | Hydro Mechanical Works | 1,133,371,000 | 991,604,278 | 87.49% |
| 5 | Transmission line & Switchyard | 474,075,000 | 219,514,759 | 46.30% |
| 6 | Land Acquisition/ Compensation/Development | 127,050,000 | 80,210,625 | 63.13% |
| 7 | Project Supervision/Management and Engineering | 414,549,000 | 254,261,212 | 61.33% |
| 8 | Construction Design, Drawing and DPR | 114,356,000 | 27,886,932 | 24.39% |

| SN | Particulars | Amount (Rs.) | Utilization Up to 30th Ashwin, 2080 (Rs.) | Utilization % |
|----|--|-----------------------|---|---------------|
| 9 | Office Building including Camp Facilities | 226,479,000 | 92,744,741 | 40.95% |
| 10 | Office Equipment | 40,342,000 | 14,447,135 | 35.81% |
| 11 | Vehicle | 88,990,000 | 23,417,477 | 26.31% |
| 12 | Infrastructure Development (Temporary and Permanent) | 780,470,000 | 617,425,156 | 79.11% |
| 13 | Environment Mitigation and Social Responsibility | 106,680,000 | 141,831,582 | 132.95% |
| 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 | 397,495,425 | 29.45% |
| | Total | 10,578,458,000 | 5,621,720,895 | 53.14% |

Total Share Capital as on 29th Poush 2080: - NPR 1,92,09,84,699.00

4.6 Loan Details

Total loan from nine Consortium Banks is 7 Arab 93 Crores. Loan disbursement during this period is NPR 3,74,35,55,659.00

4.7 Planning for the next quarter

- a) Construction of Bunker for storage of explosives
- b) Road strengthening and widening for the heavy equipment transport.
- c) Handover of the Powerhouse to EM.
- d) Installation of transformer.
- e) Completion of control Building
- f) Completion of Surge shaft.
- g) Breakthrough of Likhu inlet.
- h) Completion of concreting and backfilling of Anchor Block (AB) from 3 to 23
- 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

| | |
|---|--|
| <p>Figure showing Powerhosue with Tailrace</p> | <p>Figure Superstructure of Powerhouse</p> |
|  |  |
| <p>Figure EOT Crane Installation inside Powerhouse</p> | <p>Figure Weighing Bridge installation</p> |
|  |  |
| <p>Figure Relocation of Batching Plant</p> | <p>Figure: Gauge station at Likhu</p> |
|  |  |



Figure: Vertical Shaft



Figure showing Load Test at Vertical Shaft



Figure showing Load Test at Vertical Shaft



Figure: PCC work at Penstock Tunnel



Figure: Placing of penstock pipe in alignment



Figure: Erection of penstock pipe in alignment



Figure: Surge Shaft Drilling



Figure: Mucking Work



Figure: Adit Junction



Figure: Nupche



Figure: Likhu



Figure: Outlet



Figure: NL Junction to Nupche



Figure: Adit D/S



Figure: NL Junction HRT



Figure: Rib Section in Adit Tunnel



Figure: Back view of Likhu Headworks



Figure: Intake & operation building



Figure: Likhu Settling Basin



Figure: Pipe erection and Anchor Block Works



Figure: Pipe erection Works at Likhu Pipe Alignment



Figure: Pipe erection Works at Likhu Pipe Alignment



Figure: Nupche Settling Basin superstructure



Figure: Nupche Flood Wall base concrete



Figure: Nupche Headpond



Figure: Pipe erection and Anchor Block Works



Figure: Turbine Runner Manufacturing



Figure: Turbine Housing Fabrication



Figure: MIV Upstream body Casing



Figure: MIV Downstream body Casing



Figure: Inspection of CTs



Figure: Grinding inside VS2



Figure: MPT Test



Figure: Excavation in Pit in Tower 6/2



Figure: Excavation of Access road in tower area 22/2



Figure: RCC in Tower Foundation with Stub

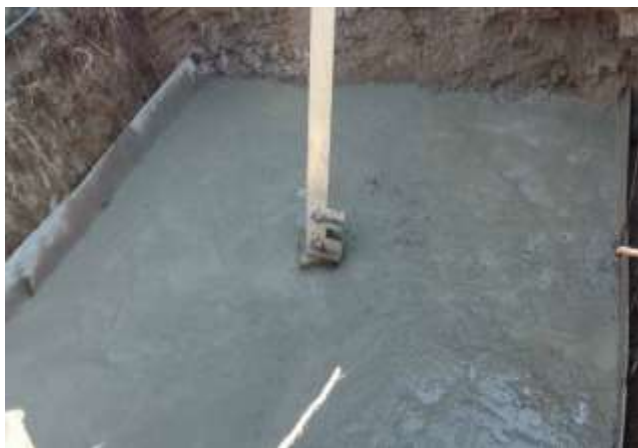
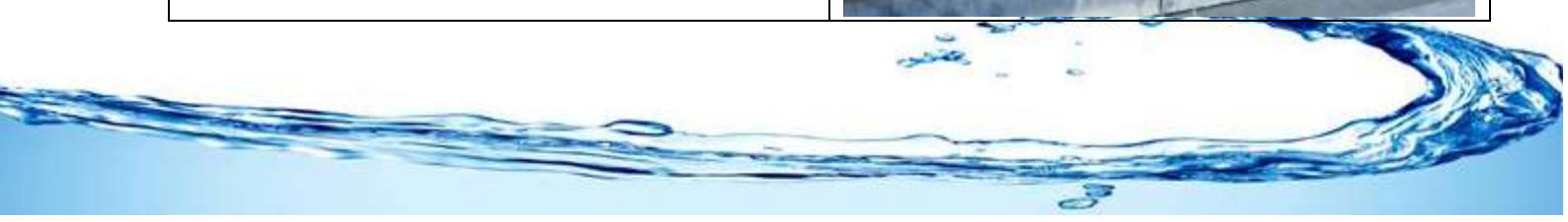


Figure: Measuring Thickness of Galvanised Layer



THANK YOU!

