

ASIA CLEAN ENERGY FORUM 2025

Empowering the Future: Clean Energy Innovations,
Regional Cooperation and Integration, and Financing Solutions

2–6 June | ADB Headquarters, Manila



Public-Private Partnerships for Sustainable Energy Transition

(KOEN's Hydropower Projects
With MDBs in South Asia)

June 2025

Clean & Smart Energy Leader **KOEN**

1. Gulpur Hydropower Project, 102MW (Pakistan)

- Project Overview
- Environment & Social (E&S) Overview
- CDM (Clean Development Mechanism)
- CSR (Corporate Social Responsibility)

2. UT-1 Hydropower Project, 216MW (Nepal)

- Project Overview
- Environment & Social (E&S) Overview
- CSR

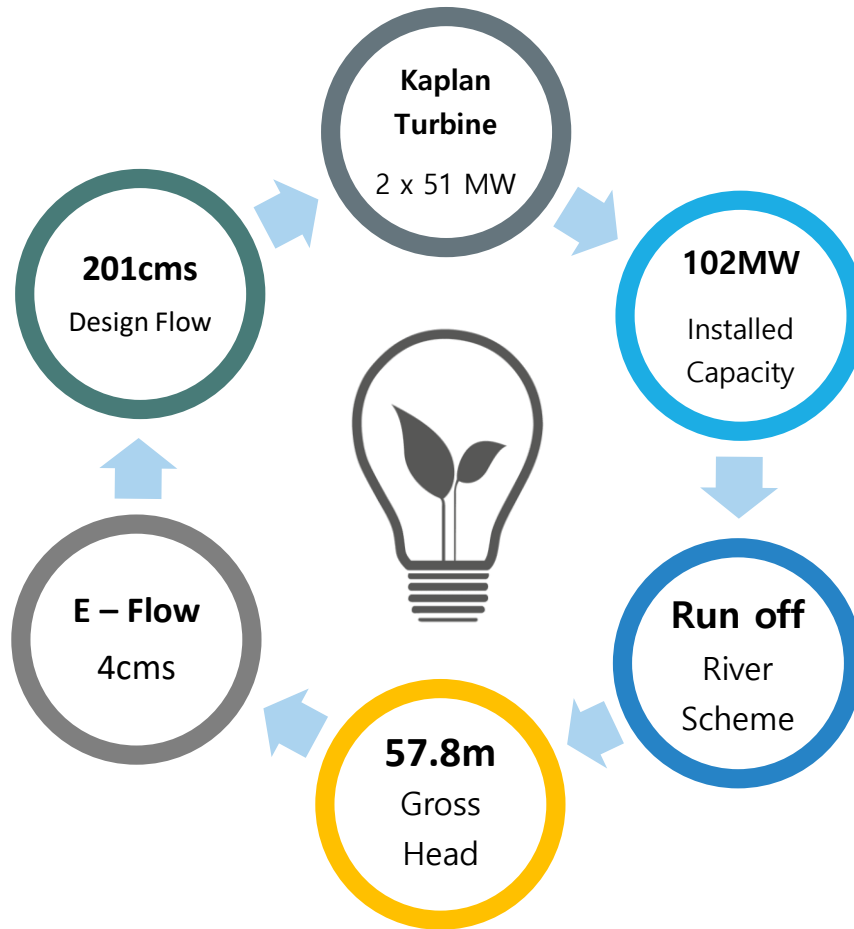
Project Overview (Pakistan Gulpur HPP)

Owner	Mira Power Limited (MPL)
Capacity	102 MW (51MW X 2Units)
Location	11 km south of Kotli Town, AJ&K
Business Type	Run-Of-River / BOOT (Build-Own-Operate-Transfer)
Off Taker	Central Power Purchasing Agency-Guarantee (CPPA-G)
Annual Gen.	475 GWh
Period	Construction (4years) / Operation (30years)
Project Cost	374 Mil USD [Equity: 109.8MiL / Debt: 264.8 MiL]
Main Structures	Weir, Intake, Waterway Tunnels, Power House, Cofferdam (Including Hydro-Mechanical, Electro-Mechanical Equipment)

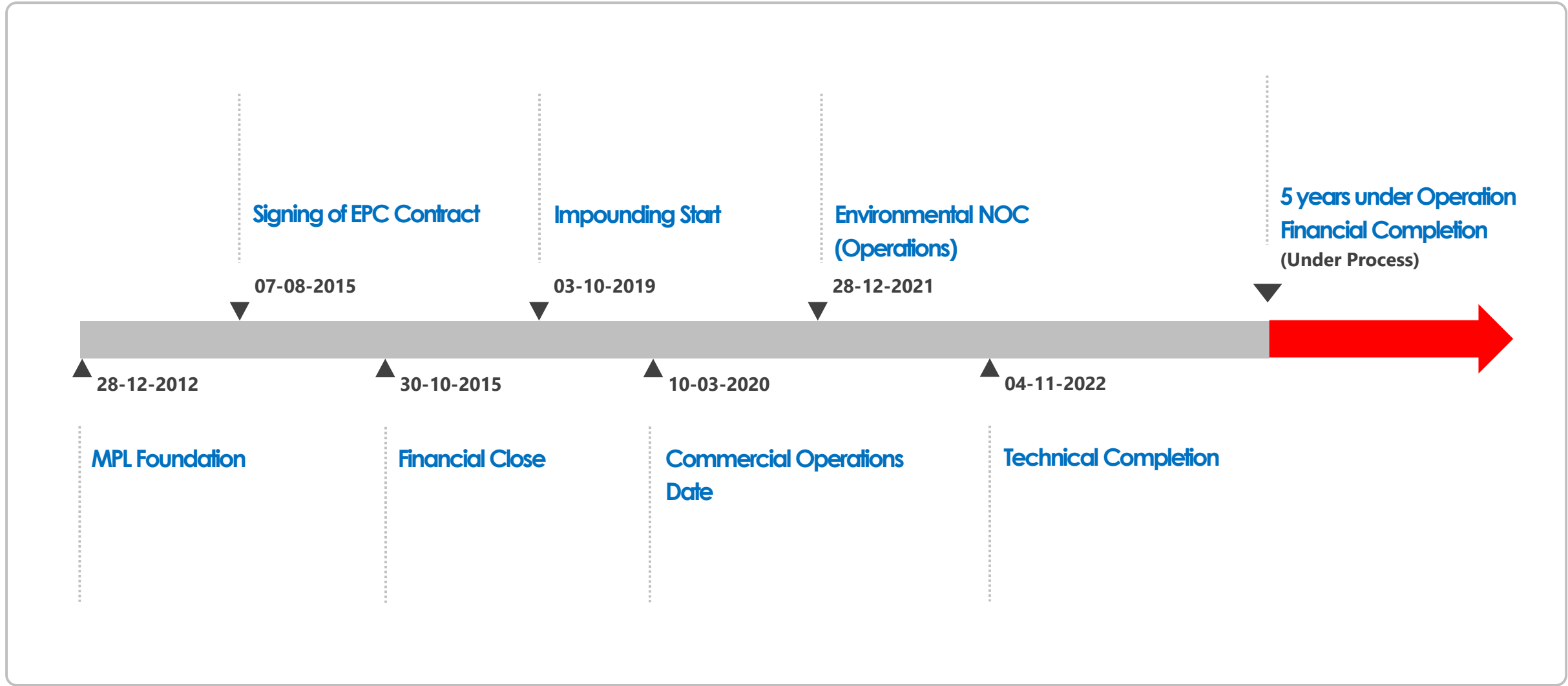


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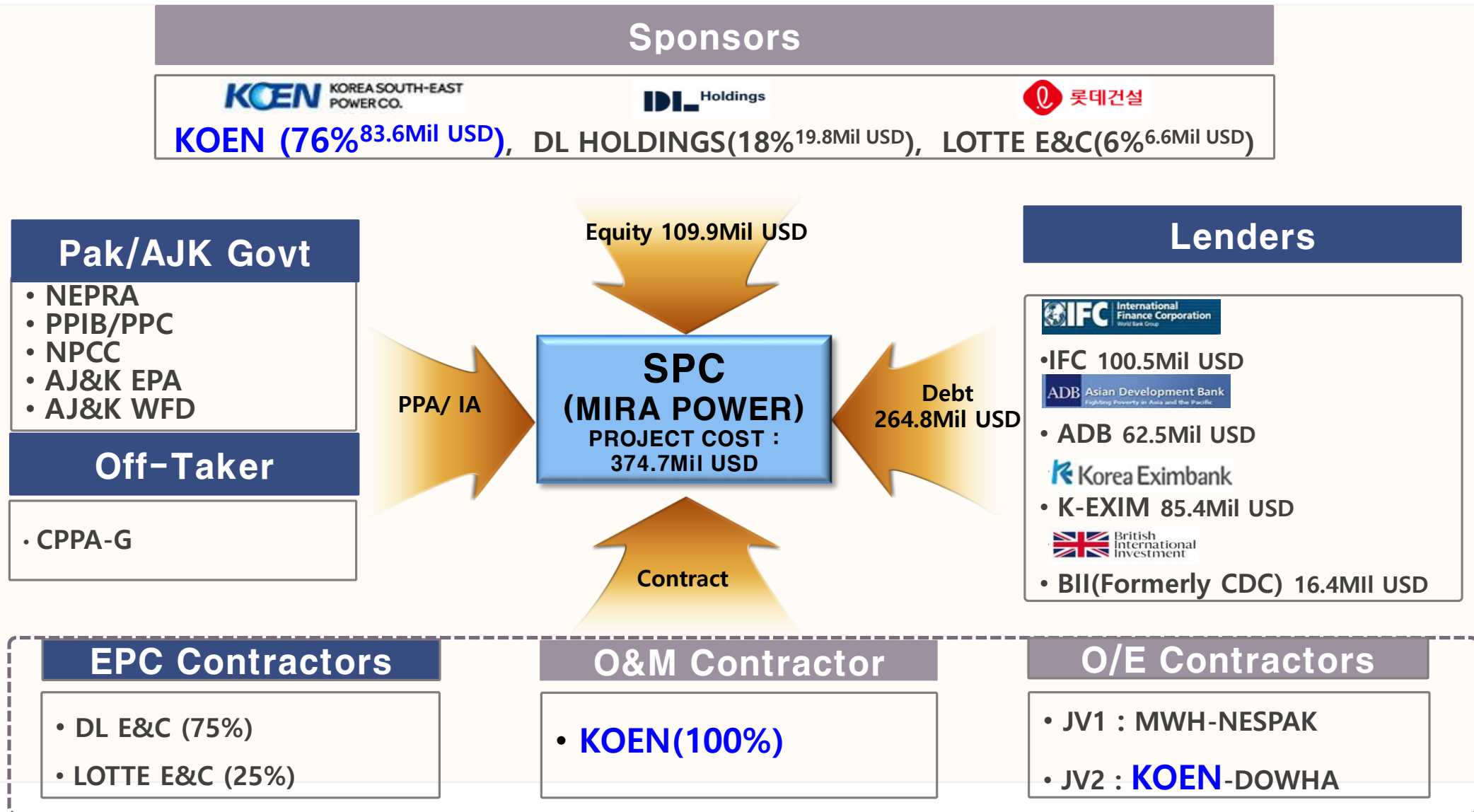
Project Overview



Project Timeline



Key Project Shareholders and Partners



※ IA : Implementation Agreement

※ MWH (Montgomery Watson Harza)

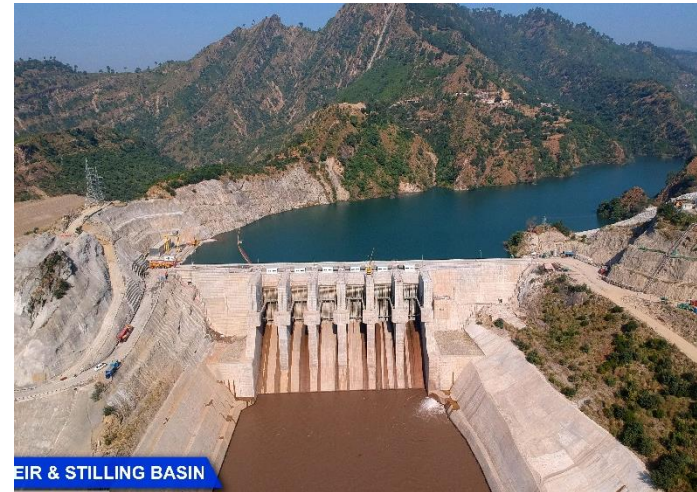
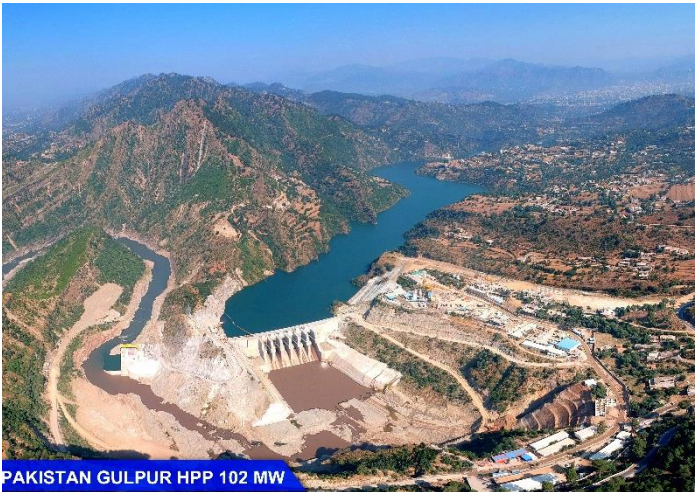
※ PPA : Power Purchase Agreement

※ NESPAK (National Engineering Service Pakistan Limited)

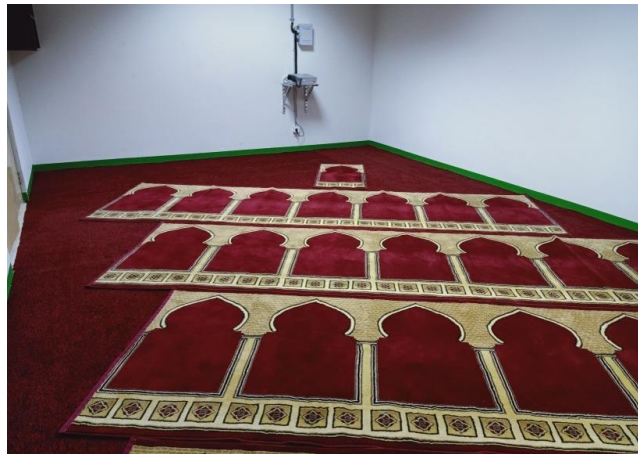
Project Layout



View of Power Plant (Under Operation)



View of Power Plant (Under Operation)



Significance of the Project (E&S Aspect)



① National Park

- Execution of Hydropower Project in a Declared National Park

② Critical Habitat

- Presence of both endangered and critical endangered species

③ Design Change

- Design of the project was changed due to Environment and Social

④ Funding Issue

- It was never easy to convince International Financiers to invest in a National Park

⑤ Stringent Requirements

- Compliance to International standards and additional requirements which are not required for the normal project
(First time in the history of Pakistan)

⑥ Future Roadmap

- No set example was available in Pakistan/ AJK for Hydropower Construction in National Park.
- Gulpur is roadmap for future Hydropower Projects in the region

❖ As per IUCN* Strategic Environmental Assessment,

**Poonch River is Ecologically
“Highly Sensitive”**

Due to;

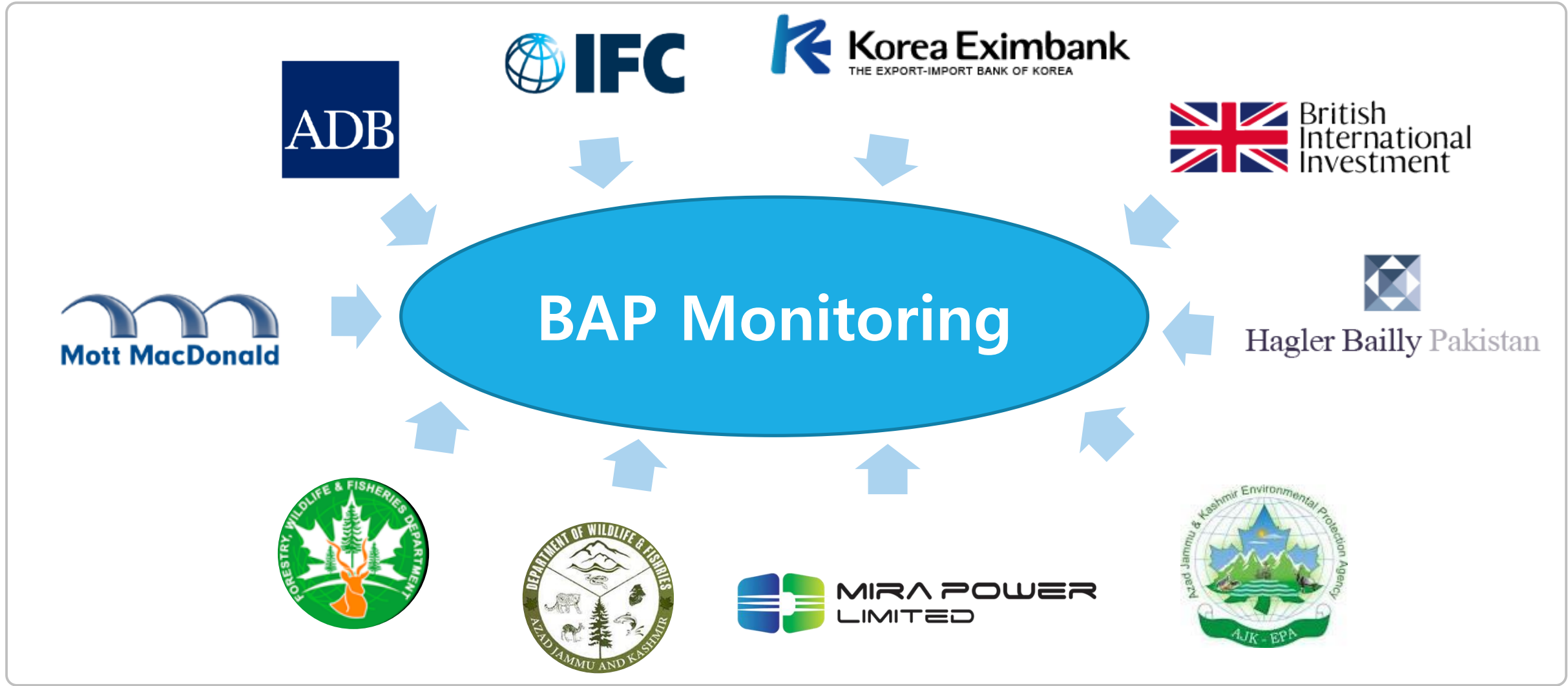
- 1) Regionally important population of **Endangered migratory fish, Golden Mahaseer (*Tor putitora*)**
- 2) **Critically Endangered Kashmir Catfish**
(*Glyptothorax kasmirensis*)

❖ **Gulpur HPP is located within the Poonch River Mahaseer National Park**

* IUCN : International Union for Conservation of Nature and natural resources



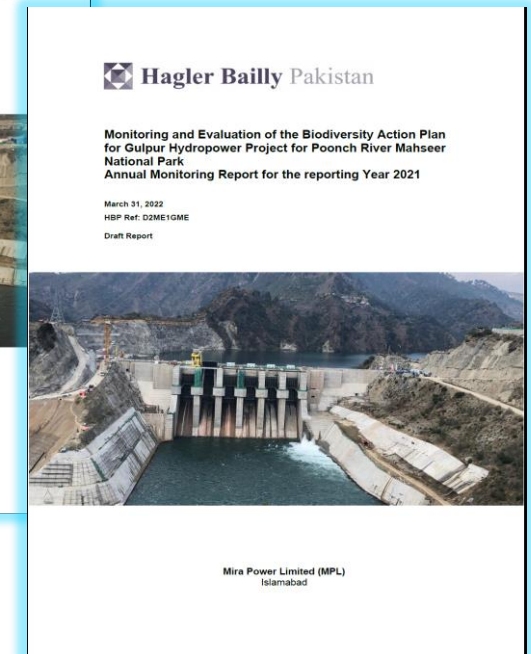
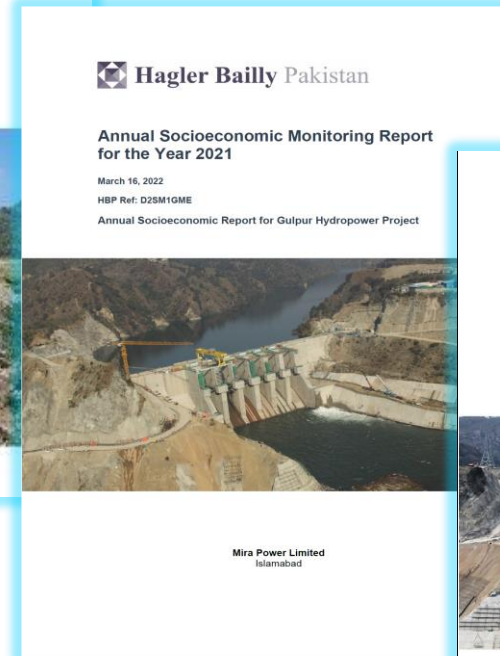
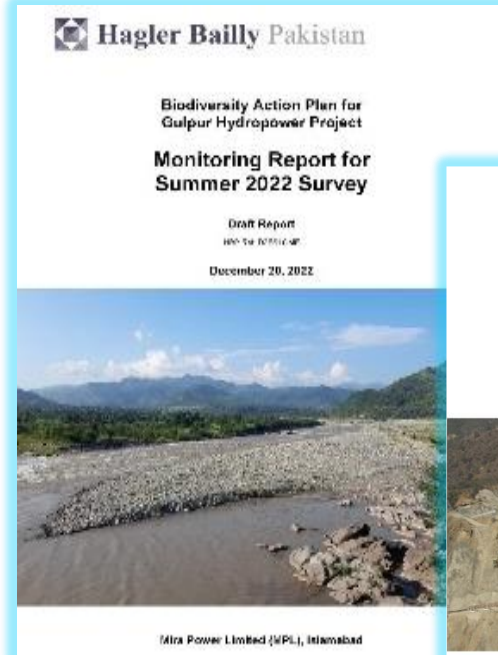
Biodiversity Action Plan – Stakeholder Monitoring & Evaluation



Biodiversity Action Plan – Monitoring & Evaluation(M&E) Consultant

Reporting

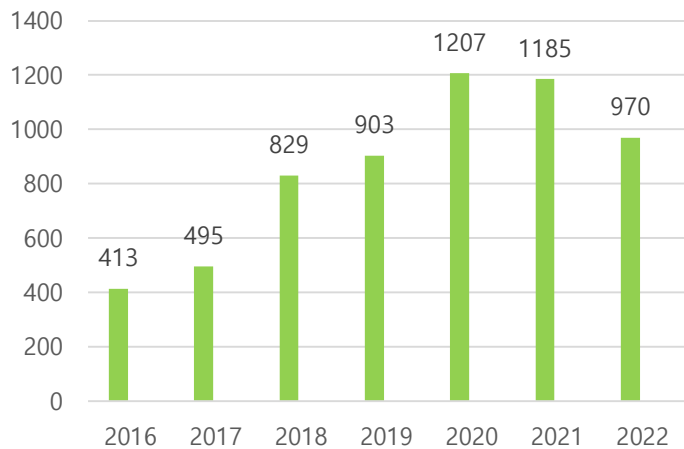
- Quarterly M&E Reports
- Annual Socio-economic Report
- Annual Biodiversity Monitoring Report



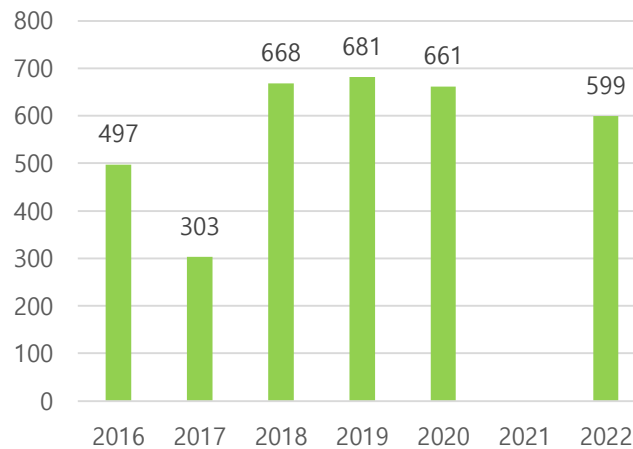
Biodiversity Action Plan - Achievements

- Increasing trend of total fish abundance

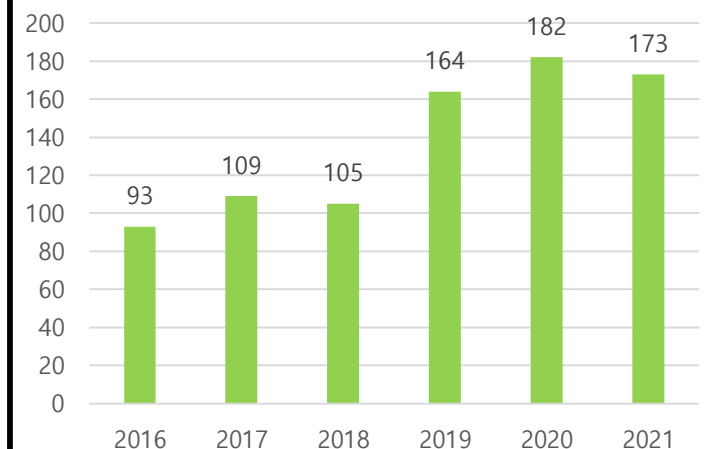
Spring Surveys



Summer Surveys



Winter Surveys

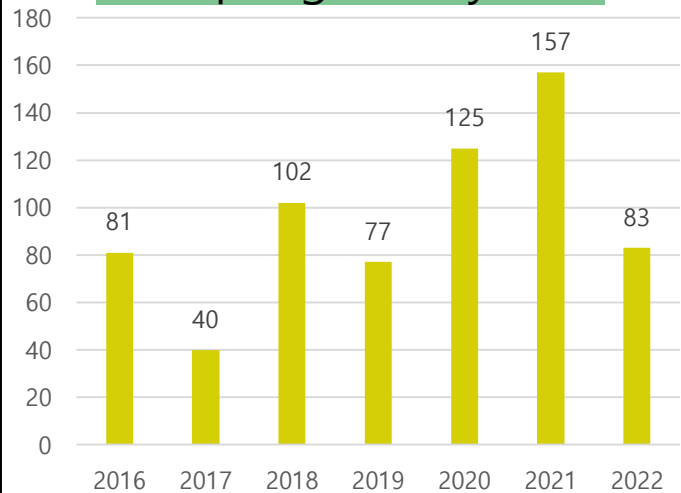


Biodiversity Action Plan - Achievements

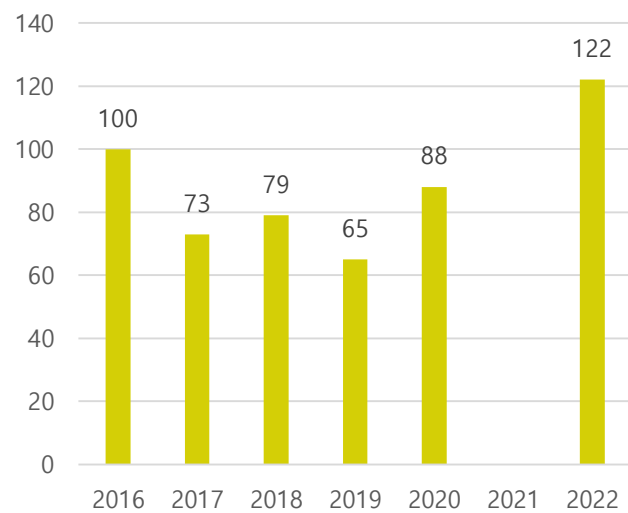
- Increasing trend of Mahseer fish abundance



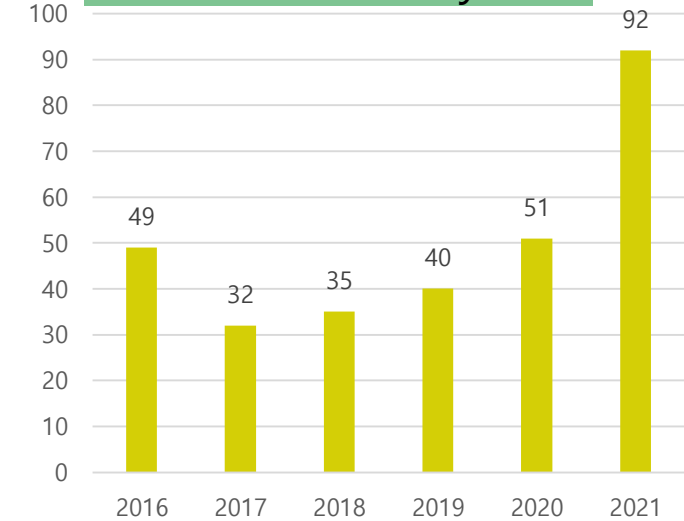
Spring Surveys



Summer Surveys



Winter Surveys



Achievements

© 2016 : Asian Power Awards 2016 **"Environment Upgrade of the Year"**

© 2019 : Asian Power Awards 2019 **"Environment Upgrade of the Year"**



2016 Asian Power Awards



2019 Asian Power Awards

Biodiversity Action Plan of 102MW Gulpur project to protect endangered fish

Posted By: Sabah News on: March 17, 2015 In: National

MIRPUR (AJK), Mar 17 (SABAH): Yoon Tae Hak, CEO, Mira Power Limited, has claimed that the 102 MW Gulpur project's biodiversity action plan aims at protecting the endangered Mahaseer fish of river Poonch, along with other flora and fauna of the region, and increase its population overtime.

He revealed this during an agreement signing ceremony in Mirpur (AJK). The agreements were signed for implementation, water use and land lease for the project being built in Kotli district in the presence of AJK Prime Minister Chaudhry Abdul Majid, Senior Minister Chaudhry Muhammad Yasin, Ambassador of South Korea Jong Hwan Song, Shah Jahan Mirza, managing director, Public-Private Investment Board (PPIB) and other dignitaries.

Hak informed that a special feature of the project, which has attracted international interest and attention, is its location in a national park and on a river which is home to endangered species of fish. Consistent with the environmental guidelines of IFC and ADB, the project has been designed to achieve net gain in population of endangered species through implementation of a Biodiversity Action Plan that will be partly financed by electricity revenues from the project. This novel approach to conservation has the support from independent environmental organizations, prominent among which are the Himalayan Wildlife Foundation and WWF-Pakistan, which were actively consulted during the project development.

Ambassador Jong Hwan Song said that the cooperation between his country and Pakistan in the hydropower sector demonstrated that South Koreans were serious investors based on the fact that this is the third big achievement by them in in AJK. The first one was New Bong Escape which is under operation in Mirpur implemented by Sambu Korea, the second is Patrind Hydropower Project developed by K-Water Korea & Daewoo Korea and Gulpur Hydropower project being the third.

MD-PPIB Mirza Shah Jahan, in his speech at the ceremony, also praised the company's environmental preparations for the Gulpur project in compliance with international best practices.

Earthly Matters: Saving the mighty Mahasheer

RINA SAIED KHAN — UPDATED Oct 16, 2016 09:04am



Guarding the Poonch River – Photo provided by the writer

River Poonch meanders through Azad Jammu Kashmir (AJK), cutting through the low Himalayan mountains as it passes through one picturesque valley after another. With its shallow gravel beds and rocky shores, it is the ideal breeding ground for the famous

News & Events » News

How Two Fish Are Changing Hydropower in Pakistan

News COVID-19 Podcasts Pressroom Events Media Contacts



Jhelum-Poonch river watershed. © Leanne Alonso / IFC

In project finance, environmental and social risks traditionally have been managed one project at a time. IFC is changing the game, by considering and addressing the impact of projects on an entire region, interconnected ecosystems, and communities. We bring together the private and public sectors, civil society, and local communities to achieve that. In Pakistan, it all started with two fish.

The Jhelum-Poonch Watershed, in South Asia, is home to critically endangered species of fish such as the Golden Mahaseer and the Kashmir Catfish. The basin is also a vast source of hydropower in Pakistan.

More than 50 power plants are located along the two rivers, in various stages of operation and development. Six of them are being financed by IFC. They are expected to bring up to 4,000 megawatts of additional power to Pakistan—where daily blackouts last for up to eight hours. But continued hydropower development in this area can have an irreversible impact on its rich aquatic biodiversity—particularly on the two endangered fish species, which are important for local food consumption.

PM Nawaz inaugurates 102MW Gulpur hydropower project in AJK

Over 1000 | Published October 10, 2015



전, 파키스탄·네팔에 대규모 수력발전소
서남아시아 전력시장서 에너지 '한류' 바

가

수력발전소 바달
개발 속도 높여
경쟁력 주요 중점



파키스탄 굴푸르 수력발전소 준공식 /생동화면 제공

오늘의 주요뉴스

국내
이...

1000
누가

한국
일본

반도
면 안

2000
내...

이 시작 관심점보
표도종지 바인지대
단문 20만원으로 2위

Daily Times

Look for the USP seal of quality.

Staff Report

March 18, 2015

Comment

25 4 0

Like Love +1

Facebook Twitter LinkedIn Pinterest

KARACHI: Mira Power Limited claimed 102 megawatts (MW) Gulpur project's biodiversity action plan was aimed at protecting endangered Mahaseer fish of river Poonch along with other flora and fauna of region and increase its population overtime.

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This novel approach to conservation has support from independent environmental organisations, prominent among which were Himalayan Wildlife Foundation and World Wildlife Fund (WWF-Pakistan), which were actively consulted during project development.

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Shah Jahan praised Company's environmental preparations for Gulpur project in compliance with international best practices.

According to environmental impact assessment of project conducted by an independent firm Hagler Bailey Pakistan and a total of 37 fish species have been recorded from Poonch River. Of the fish species recorded from Poonch River, 16 species were of special significance, especially Mahaseer because of

RELATED STORIES

students pledge to help protect biodiversity of

Fish oil may help prote stroke

Fish oil may help prote stroke

Latest incidents at sea action to protect migra

CDM (Salient Features)

Sr. No.	Item	Description
1	Project Title	102 MW Gulpur Hydropower Plant
2	Project Reference	10690
3	Host Country	Pakistan
4	Authorized Participant	Mira Power Limited
5	Reference Protocol	Kyoto Protocol
6	Sectoral Scope	Energy Industries (renewable and non-renewable sources)
7	Activity Scale	Large
8	Applied Methodology	ACM0002 ver. 20 - Grid-connected electricity generation
9	GHG Reductions	238,748 tCO_{2e} per annum
10	Registration Date	1 st September, 2021 (provisional)
11	Crediting Period (Renewable)	1 st September, 2021 – 31 st August, 2028

CDM (Timelines)

Sr. No.	Item	Description
1	Host Country Approval	5 th April, 2017 by DNA for CDM in Pakistan
2	PDD Completion Date	30 th June, 2021
3	Project's Designated Operating Entity (DOE)	Bureau Veritas
4	Validation Completion by DOE	5 th July, 2021
5	Request for Registration by DOE	1 st September, 2021
6	Monitoring Conducted (no.)	1
7	Monitoring Period	1 st September, 2021 ~ 28 th February, 2022
8	Monitoring Completion Date	22 nd June, 2022
9	Verification Completion Date	2 nd February, 2023
10	DOE for Verification	Korea Testing and Research Institute / E-0056
11	Emission Reductions	42,792 tCO _{2e}
12	Transition Request to UNFCCC	4 th October, 2023
13	Acknowledgement by UNFCCC	25 th October, 2023
14	Transition Request to Host Country (MoCC)	28 th March, 2025



■ Cleft Lip Treatment



■ Upgradation of Basic Health Unit



■ Ambulance to BHU

CSR (Education Sector)



▣ Education Support



▣ Construction of School Building



▣ Renovation of School



▣ Installation of Solar System

CSR (Education Sector)



■ Literary Festival



■ Renovation of School



■ Renovation of College

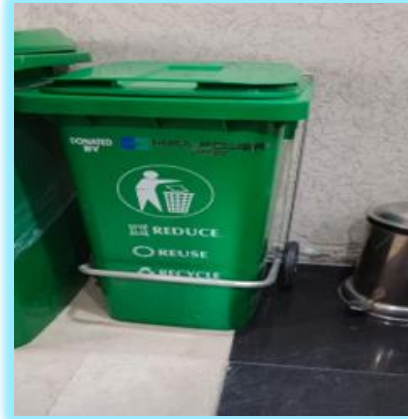


■ Renovation of School

CSR (Environment Sector)



■ Construction of Solid Waste Site



■ Dust Bin



■ Laptop, Desktop and Printer for Deputy Commissioner Office



■ Drinking Water Supply



■ Distribution of Groceries



■ Laptop, Desktop and Printer for Deputy Commissioner Office

Project Overview (Nepal UT-1 HPP)

Owner	Nepal Water & Energy Development Co. Pvt. Ltd (NWEDC)
Capacity	216MW (72MW X 3Units)
Location	70km North of Kathmandu, Rasuwa
Business Type	Run-Of-River / BOOT (Build-Own-Operate-Transfer)
Off Taker	Nepal Electricity Authority (NEA)
Annual Gen.	1,456.4GWh – 564.36GWh (Dry) / 892.04GWh (Wet)
Period	Construction (5years) / Operation (30years)
Budget	USD 647.4 Mil. (Debt. USD 453.2 Mil. / Equity. USD 194.2 Mil.) Largest FDI hydro sector in Nepal, as of now
Work Packages	Preparation Works, Head Works, Headrace Tunnel, Power House Hydro-Mechanical, Electro-Mechanical, Transmission Line

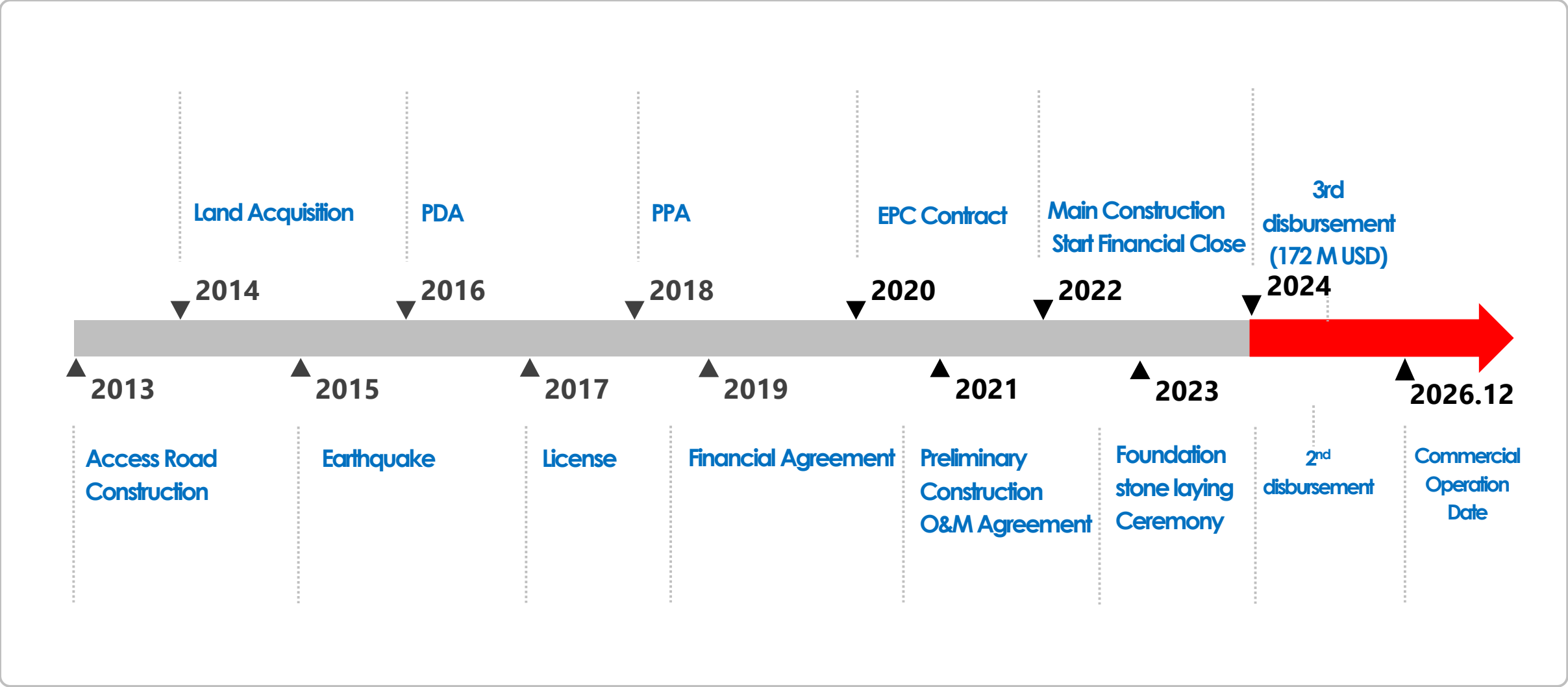


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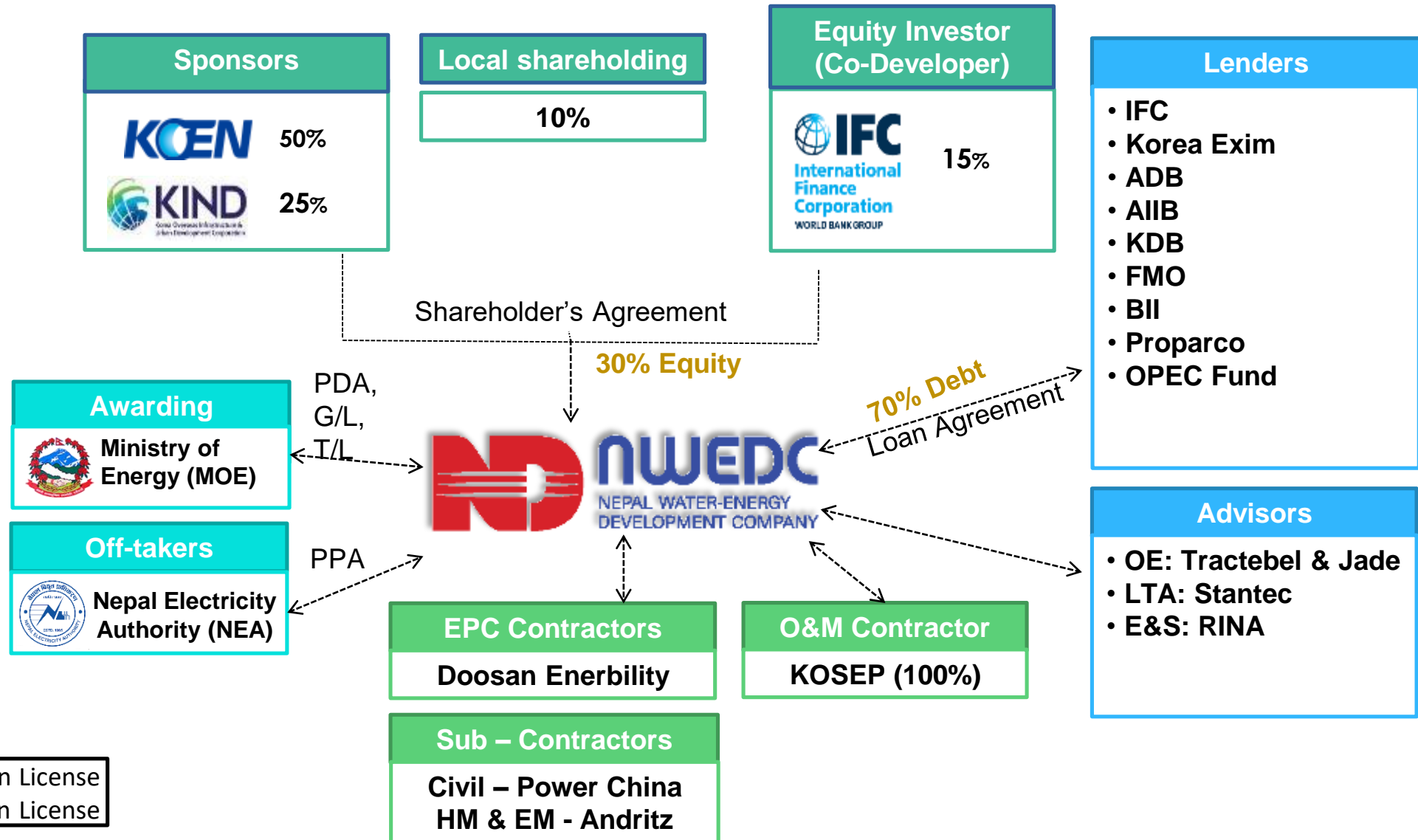
Key Project Benefit

Item	Benefits
High Firm Power	<ul style="list-style-type: none"> • 105 MW all round the year • 39% Dry Energy
Low transmission losses	<ul style="list-style-type: none"> • Near to Load center Kathmandu (72 km)
Road	<ul style="list-style-type: none"> • UT-1 Access Road can be an alternative highway to Chinese border
Technology Transfer	<ul style="list-style-type: none"> • Transfer of experiences and technologies • Compliance with International Standards
Good precedent	<ul style="list-style-type: none"> • Successful Project financing model • Will attract other large FDIs in Nepal • Standard PPA and PDA Templates (PPA : Power Purchase Agreement, PDA : Project Development Agreement)
Benefit sharing	<ul style="list-style-type: none"> • Budget allocated for Indigenous People's Plan implementation – USD 1.125 million • Local share – 10% on PAR value • Rural Electrification – 20 kWh for project affected households • Employment/Training/CSP – 40%/900 pop./0.75% of total project cost • Royalties and Taxes/VAT – NPR 85 bn
Quality Project to Nepal	<ul style="list-style-type: none"> • Project will be handed over to Nepal Government after 30 years of operation

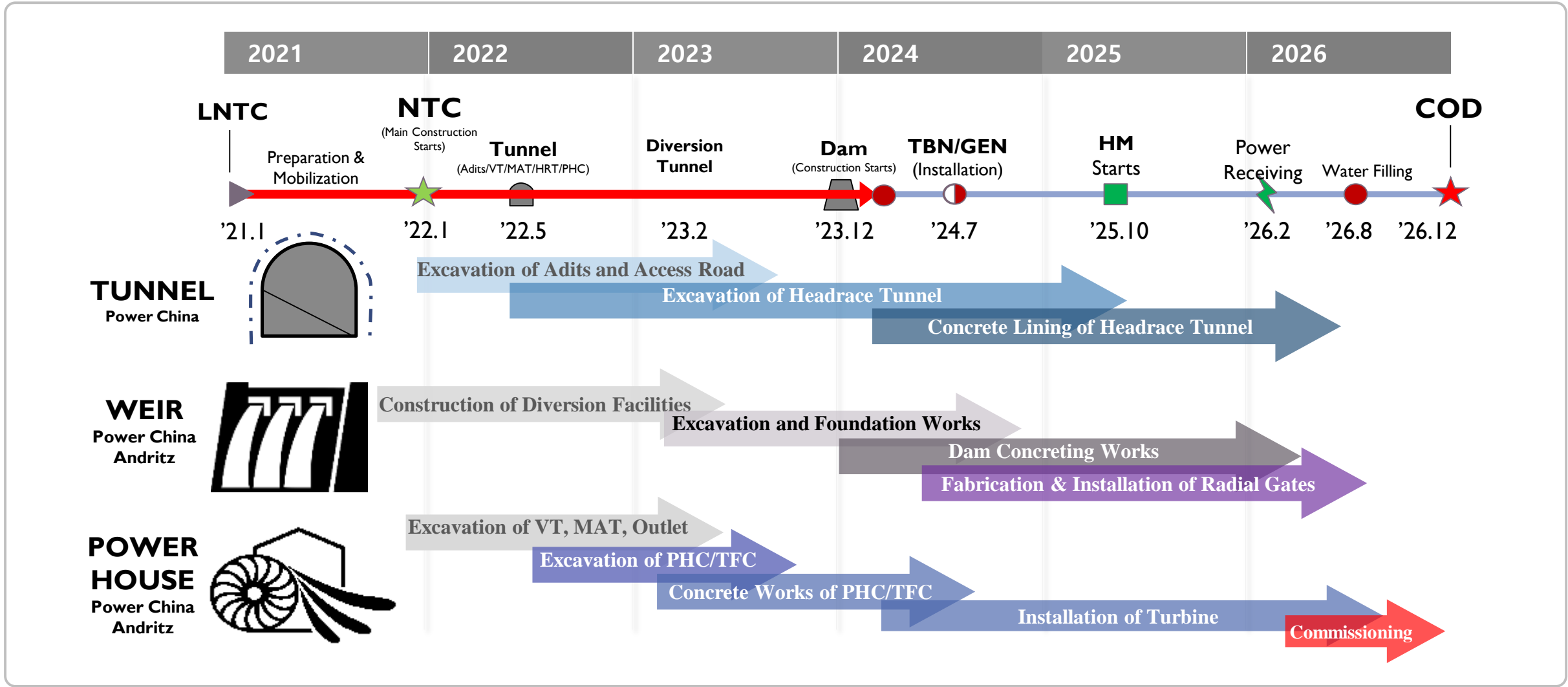
Project Timeline



Key Project Shareholders and Partners



Construction Schedule



Construction Progress (Photographs-Civil)

Cut-Off Date : NTC to 2025.04.07



Overview of Construction Progress at Headworks

Construction Progress (Photographs-Civil)



Excavation Works at Desander Main Body



Excavation and Support Works at HRT Face 4



Excavation and Support works at Surge Shaft

Construction Progress (Photographs-Civil)



Current Status of Power House

Construction Progress (Photographs-M&E)



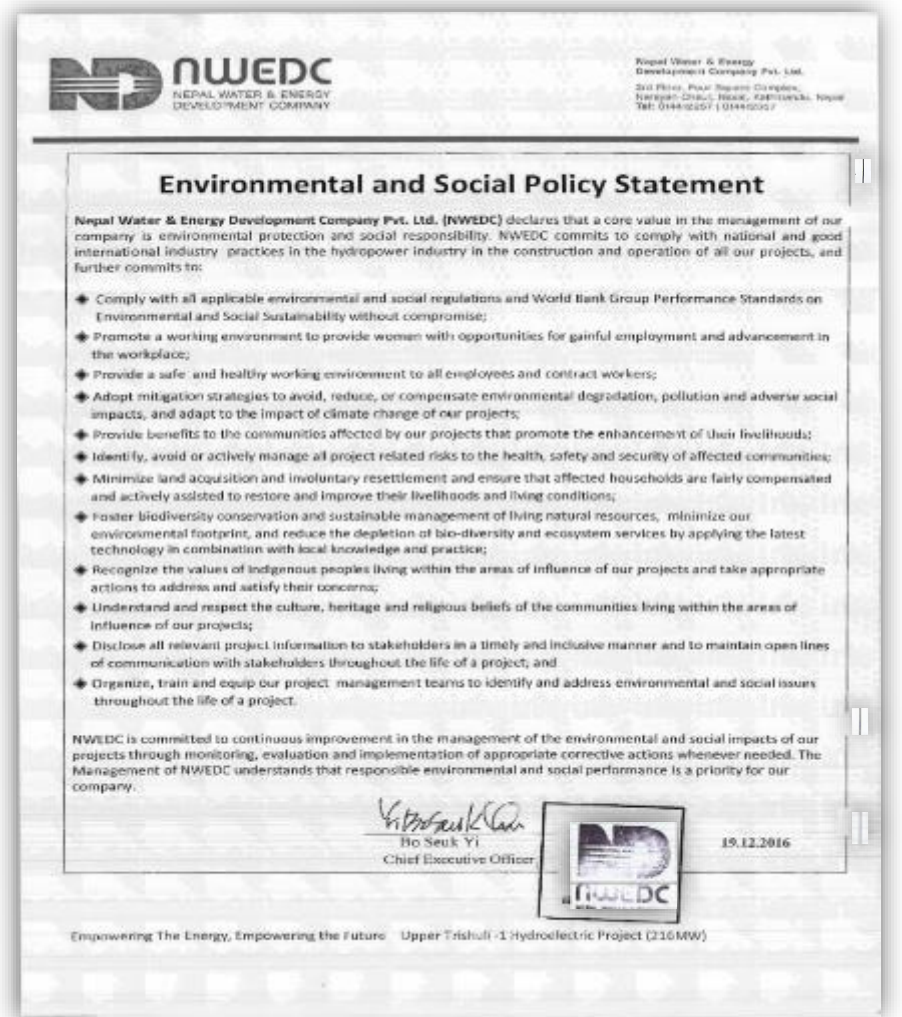
M&E Workshop at Site ready for Penstock Fabrication



Draft Tube and Spiral case components

NWEDC(SPV) E&S Policy Statement

- **Compliance:** All applicable **National & International Regulations**
- **Excellent Working Environment:** Safe and Healthy Working Environment, Promote Women Opportunities
- **Reduce Project Risks:** Adapt **Mitigation Strategies to Project impacts**
- **Benefits to Local Communities:** Fair compensation, minimized land acquisition and involuntary resettlement land, livelihood options, corporate social responsibility, trainings, development programs
- **Value of IPs:** value recognition, address IPs concerns
- **Conservation:** biodiversity, **minimize project footprint, sustainability**
- **Respect:** Local culture, heritage and religious beliefs



E&S performance monitoring

Assessment Name	Assessors	Period of Assessment
Muck Dump - NWEDC Review	Auditor1	2024-12-09 - 2024-12-10
HR & Labour Practices - NWEDC Review	Auditor2	2024-12-23 - 2024-12-24
Labour Accomodation - Independent Audit	Auditor3	2024-12-11 - 2024-12-12

overview of all findings

Assessment Name HR & Labour Practices - NWEDC Review				
Finding Title HR-Policy & Organisation Gaps to be Closed				
Corrective Action Plan Title Revise HR Policy and Make Official Submission.				
Corrective Action Plan Description Revision of HR Policy and the same is to be submitted to the Office of Labour and Employment, Government of Nepal.				
Action Plan Table				
Action Plan name Revise HR Policy Progress updated 1/29/2025	Deadline 2024-11-30	Assigned To Updater:EPC2	Action Plan Type Percentage	Priority <div>100% [edit] [delete] [info] [C-EV]</div>
Action Plan name Submit Revised HR Policy to Office of La... Progress updated 1/29/2025	Deadline 2024-12-10	Assigned To Updater:EPC2	Action Plan Type Percentage	Priority <div>100% [edit] [delete] [info] [C-EV]</div>
Action Plan name Sensitize workers on new HR Policy Progress updated 3/24/2025	Deadline 2025-01-15	Assigned To Updater:EPC2	Action Plan Type Percentage	Priority <div>100% [edit] [delete] [info] [C-EV]</div>

online system with role based access to points of responsibility

Upper Trishuli 1_Report

Action Plan name	Deadline	Type	Progress status	Evidence List
Power China to Hire New HR Resource	30-01-2025	Progressive	<div><div></div>100%</div>	Letter of Intent - Navaraj Aryal.pdf Updated Navaraj Aryal -Asst HR Manager (2).pdf Kabindra Sharma Resume.docx

Action Plan name Undertake revision of the ECA te...	Deadline 2024-11-28	Assigned To Updater:EPC2
Progress updated 3/3/2025		

Expected completion timeline



Muck Disposal Status

Date: 25th Dec, 2024



Evidence of progress

Biodiversity Management and Monitoring

Aquatic Monitoring

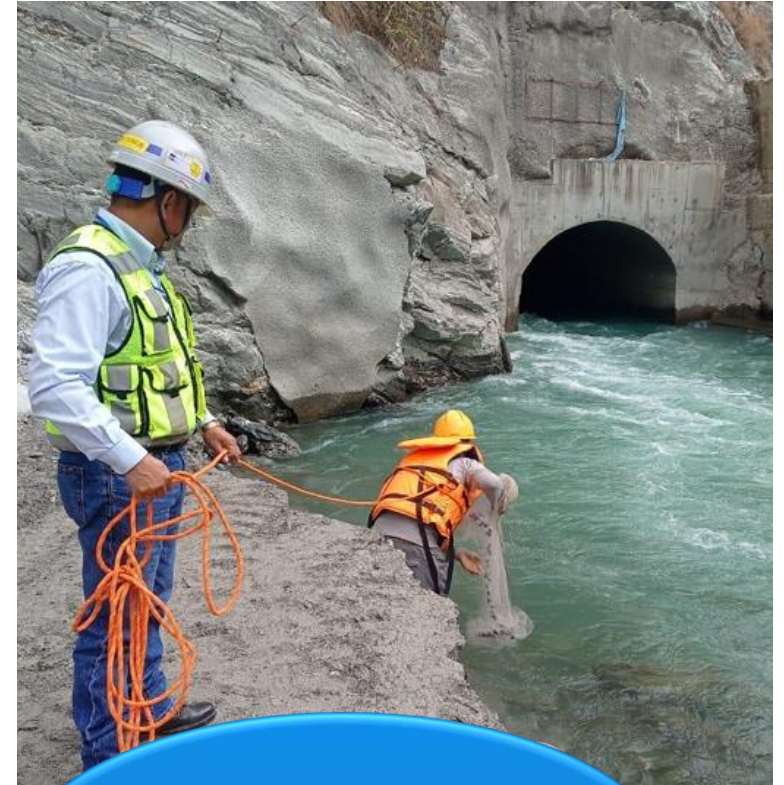
- Conducted twice a year (Spring and Fall/Autumn) involving
 - Bournemouth University – Fish Monitoring Advisor
 - RDT, Nepal – Macroinvertebrate Advisor
 - Biome and Ecosystem Services – National Fish Monitoring Advisor



Macroinvertebrate Survey

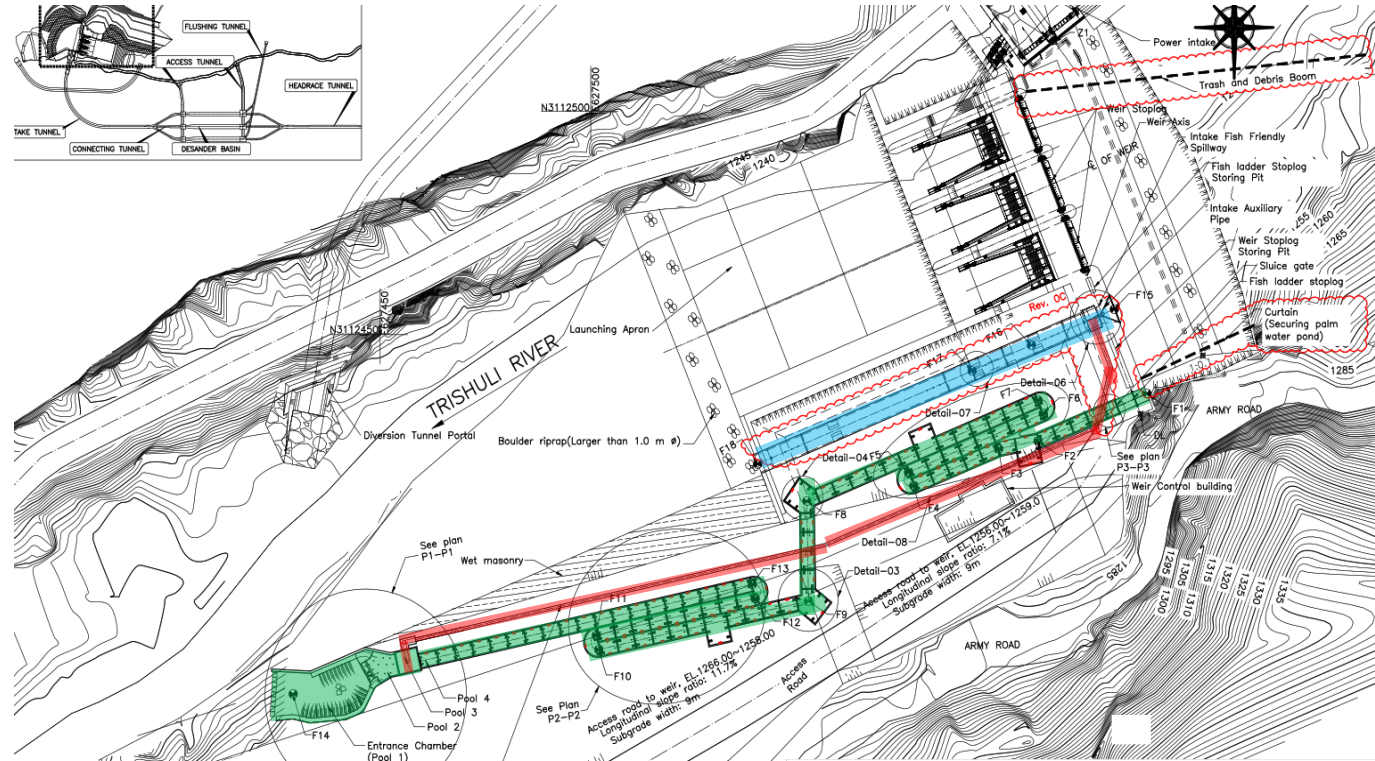
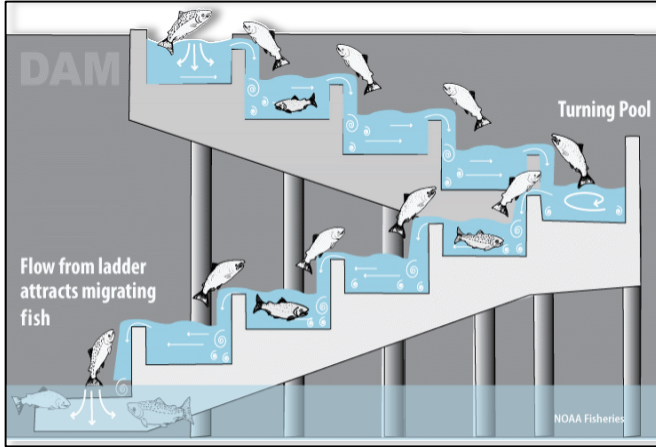


Electrofishing and Pit tagging



Cast Net Efforts for Trap and Haul undertaken on February 2025.

Biodiversity Management and Monitoring – Fish Ladder



**Downstream
Fish Spillway**

**Upstream
Fish Ladder**

**Auxiliary
Pipe System**

- Fish Ladder Design and O&M protocol finalized in consultation with SWECO
- Fish Ladder construction begins from last quarter of 2025

HR Issues

- NWEDC sensitized the Sub Contractor Workers regarding approved HR Policy.
- Implementation of approved HR policy (weekly off and 72 working hours)
- Entitled Home and Sick leave to be paid on a monthly basis
- The evidences of implementation **verified by IFC during construction.**
- **Monthly HR audit by EPC – Quarterly HR audit by Lenders**
- Tracking of HR issues through ESMS toolkit
- Labour Audit of NWEDC and OE conducted.

Workers Accommodation

- Monthly Workers Accommodation Inspection by External Expert
- CAP(Corrective Action Plan) developed and integrated into the ESMS toolkit for monitoring purpose.
- **Regular monitoring of workers accommodation ongoing.**

Accommodation Monitoring



Accommodation Monitoring by External Specialist



Camp protection works



Construction of Additional Toilets



Additional Refrigerators for storing of Green Vegetables



Repairing of Washrooms

Implementation of Corrective Actions

Community Support Programs

S. N.	Particular	Budget in NPR
1	Education Support	11,360,176
2	Road Development	6,469,652
3	Water Supply	4,105,366
4	Langtang National Park	5,500,000
5	Health	4,258,080
6	Local Organization support	4,106,736
7	Religious Institution Support	1,300,000
8	Dhunche Kholdol Road	7,000,000
9	District police Office	496,955
10	Haku Besi Bailey Bridge	78,614,100
11	Skill and Vocational Training	8,143,160
12	0.16 Ha land to construct Haku Police Post	In Kind
Total (NPR)		131,354,225
Total (USD)		972,995



Bailey Bridge for local connectivity at Hakubesi



Educational material support to local schools



Ambulance Handover to Health Post ACRM Ward no 1



Rehabilitation of community water supply



Landslide Relief Distribution



Handover of rescue material to DAO, Rasuwa

Land Acquisition and Livelihood Restoration Plan (LALRP) Implementation



Cook



Tailor



Motor Cycle Repair



Welding



Heavy Duty Operation



Korean Language

Vocational and Skill Trainings 2023



Consultation for Livestock and Agricultural Trainings

IPP(Indigenous People Plan) Implementation



Goat Farming Support



Bee Farming



Cooking Utensil to support Tamang Ceremony



Support to purchase the Cultural Dress



Education/Stationary Materials Support



Distribution of Sichuan Pepper for business purpose

✓ Tools & Procedure

2) Establishment of grievance toolkit

- 👉 Upgraded grievance management system through digitized GRM toolkit for **recording, resolution and reporting of the grievance.**
- 👉 Digitized stakeholder engagement toolkit developed **to record all stakeholder engagements**

Grievance Records

Grievance No	Grievance Subject	Grievance Theme	Stakeholder Group	Grievance Status	Grievance Date	Response Days	Grievance Details	Acknowledgement Status	Actions
G132	Blasting Impacts Leading to Building Damage in Charchhare, Mailung	<ul style="list-style-type: none">BlastingDamage to Houses	Villages > Mailung		2024-11-07	Response Submitted	Details		
G133	Flooding of Agricultural land in Gumchet	<ul style="list-style-type: none">Community Health & SafetyWaste & Spoil Management	Villages > Gumchet		2024-11-24	Response Submitted	Details		
G134	Blasting Impacts Leading to Building Damage in Gogane, Tiru & Mailung	<ul style="list-style-type: none">BlastingDamage to Houses	Villages > Gogane, Mailung, Tiru		2025-01-25	Response Submitted	Details		
G135	Drying up of Springs in Tiru	<ul style="list-style-type: none">Water Resources (springs)	Villages > Tiru	Assigned	2025-01-15	83	Details		
G136	Blasting Impacts Leading to Building Damage & Drying of Springs	<ul style="list-style-type: none">BlastingDamage to Houses	Villages > Lumbudanda, Niesing, Phoolbari, Sano Haku, Thangu, Thulo Haku	Assign	2025-01-10	88	Details		
G137	Increase in Landslide Frequency in Lumbu Dara because of Blasting Impact	<ul style="list-style-type: none">BlastingLandslides	Villages > Lumbudanda	Assigned	2025-01-30	68	Details		
G138	Project Affected People, Kaksing (Haku Besi) - Blasting Impact	<ul style="list-style-type: none">BlastingDamage to HousesWater Resources (springs)	Villages > Haku Besi/Kaksing	Acknowledge this Grievance to assign	2025-04-30	-22	Details	Acknowledge	
G139	Non-receipt of Project-Related Entitlements	<ul style="list-style-type: none">Livelihoods Restoration	Villages > Khaite	Acknowledge this Grievance to assign	2025-01-30	68	Details	Acknowledge	

- **Centralised repository** of all stakeholder grievances received maintained as records
 - **Enables assignment of grievances** to appropriate Tier of project management for redressal
 - Scope for generation of **Grievance Redressal Reports**
- Distribution of Sichuan Pepper for business purpose

✓ Communications

1) Making lots of chance to conversate with Stakeholders

☞ Enhanced community consultations on multiple basis with affected stakeholders



Support of Vehicle for Communication



Increment of Business Trip expenses to Staff



Support of Stakeholder engagement expenses

✓ Communications

2) Strengthen capacities

- ☞ Capacity building and awareness sessions through support from internal/external specialists
 - Capacity Building of CLO* through the internal session monthly basis *CLO : Company Liasion Officer
 - Capacity Building on GRM to NWEDC, EPC and Sub-Contractor by Social Advisor



✓ Regular villages consultation

✓ Bi-monthly(twice per month) Consultation activities including management team



Conclusion

- **In emerging markets such as Pakistan and Nepal, cooperation with MDB is essential for the development of Clean Energy**

ex) Gulpur HPP : joining as Lenders / UT-1 HPP : Joining as a co-investor(IFC) and Lenders(ADB, IFC, AIIB)

- **For South Asia's Clean Energy, especially hydro project, it is crucial to mitigate environmental & social impacts during construction and operation**

As per IFC PS/ADB Safeguard, CESMMP, Biodiversity, Cumulative impact, Land Acquisition, Resettlement & Livelihood, Grievance Management Action Plan etc. to be strictly implemented

- **KOEN's hydropower projects in Pakistan and Nepal, are a result of active cooperation with MDBs and local governments and can be a successful model for emerging market's Green Energy project in the future**

Gulpur HPP : Increasing of total and endangered fish abundance

UT-1 HPP : Enhancement of relation with Local people through advanced grievance redressal mechanism



Thank You !