



jade
CONSULT

We are involved in over 5388MW of Hydropower Projects, 2141km of Transmission Line Projects ranging from 33kV to 400kV & 1745km distribution lines all over Nepal.

We are the pioneer consulting firm in Nepal to work in:

- » **High voltage** (400 kV) transmission line in **high altitude (2,716 m)**, Tamakoshi (Khimti) – Kathmandu TL Project.
- » **First major storage-type hydroelectric project**, Budhigandaki HEP (1200 MW).
- » Detailed design of **highest dam (263 m)** in Nepal, Budhigandaki HEP.
- » Supervision of construction of **400 kV Transmission line** project, Hetauda-Dhalkebar-Inaruwa 400 kV TL Project.
- » Prepare the Resettlement Action Plan (**RAP**) of **400 kV Transmission Line**, SJVN Arun-3 Power Development Company Pvt. Ltd.
- » Supervision of construction and commissioning of 220 kV Power Substation, Dhalkebar Substation.
- » **Largest foreign direct investment (FDI)** in the hydropower sector in Nepal till date, Upper Trishuli-1 HEP.
- » Supervision of construction and commissioning of **220 kV Transmission Line** Project, Khimti – Dhalkebar TL Project.
- » **More than 2,100 km length** of transmission line projects.

M/s Jade Consult Pvt. Ltd.
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Jade Consult is a private consulting firm established in 2001 A.D., registered with the Department of Industries (reg. no.15037), Government of Nepal, under company Act 2053 with expertise in the field of hydropower, transmission lines, roads, water resources and irrigation and environmental & social studies of various infrastructure development projects.

The firm is certified with ISO 9001:2015, quality management system and ensures the owner to render its service with good quality within specified time frame.

Since 2001, our competent staffs have been providing comprehensive, integrated solutions in all segments of hydropower, transmission line and other infrastructure development projects. We offer our clients exceptionally detailed industry knowledge and engineering services.



WE PROVIDE CONSULTANCY SERVICES FOR DESIGN, CONSTRUCTION SUPERVISION, ENVIRONMENTAL & SOCIAL STUDIES OF HYDROPOWER, TRANSMISSION LINE, ROAD AND OTHER INFRASTRUCTURE DEVELOPMENT PROJECTS.

Hydropower & Dams

We are involved in over three dozen hydro power projects totaling up to 5388MW capacity at different stages of development. We provide all necessary technical support to hydropower developers.

Transmission Line

We are the pioneers of transmission line consulting in Nepal, with nearly two decades of experience in high voltage transmission line systems of up to 400kV. At present, we are involved in a number of transmission line projects ranging 33kV/132kV/220kV/400kV across the country comprising a total length of about 2141km.

Road/ Highways

We are involved in survey, feasibility study, detailed design and construction supervision of several road projects ranging from rural roads to highways in diverse and difficult geographical terrains of Nepal.

Environmental & Social Studies

We have successfully conducted the EIA, prepared the land acquisition, resettlement & rehabilitation action plan for prestigious projects like Budhigandaki Hydropower Project 1200MW and Upper Trishul-I Hydropower Project 216MW and resettlement & rehabilitation action plan and supplementary IEE for 400kV D/C Transmission Line of Arun-3 HPP 900MW.



Our Values

More than just doing the right thing:

To us, being responsible in our business means managing our operations with ethics and integrity and recognizing that our responsibilities extend into our value chain. But more than that - we understand that the most significant societal contribution we make is through the work we do every day. It also means recognizing our responsibilities, and opportunity to influence for positive change.



Our Quality Policy

We are committed to provide excellent consultancy services for hydropower, transmission line, road and civil structure projects in national as well as international market, ensuring best quality services, complying with statutory and regulatory norms as well as requirements of our quality management system based on ISO 9001:2015 standard so that we fulfill the expectations of our customers and to increase the satisfaction level our clients.



Integrity:

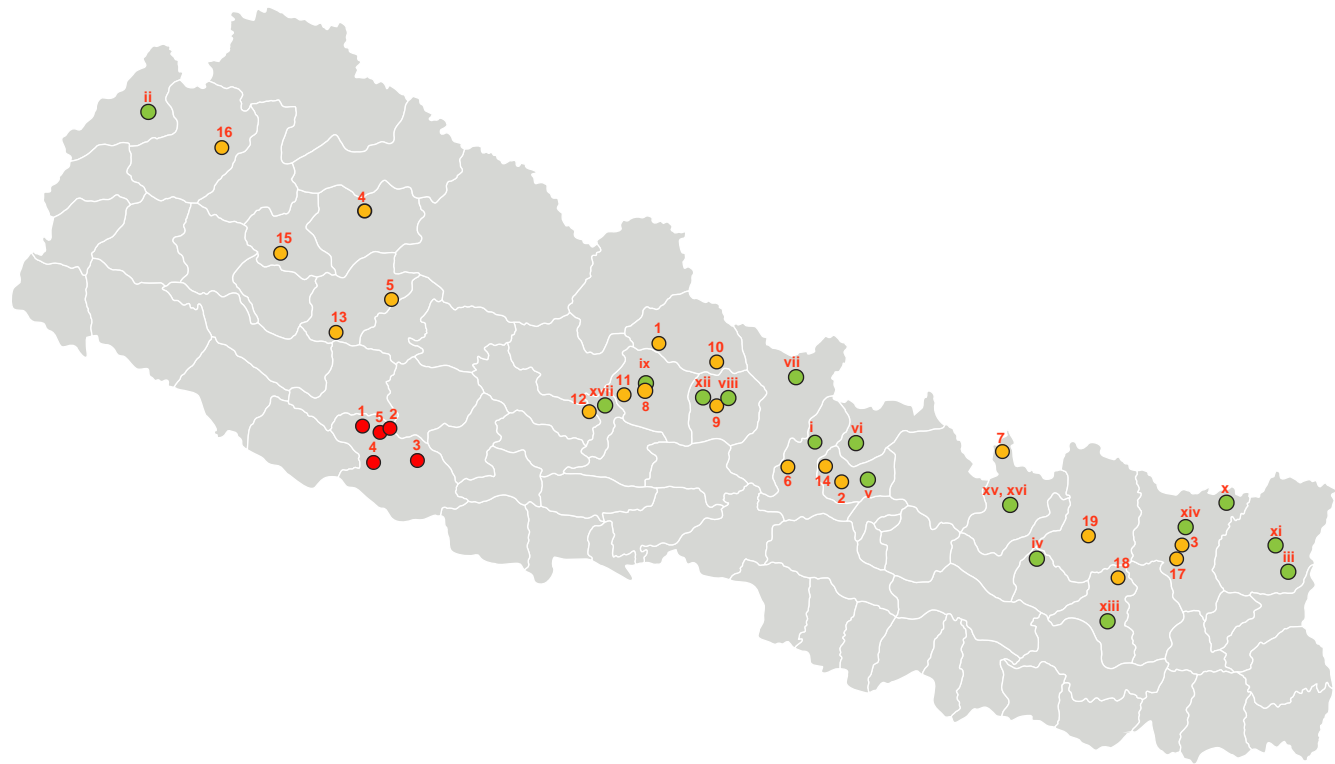
Highest level of integrity in our work is fundamental to who we are. We give utmost importance to our reputation for which we follow ethical principles and are strongly committed to sustainable and responsible business practices.



Outstanding value to markets and clients:

We play a pivotal role in helping our clients operate more effectively in reaching their goals. We consider our part in their success as a privilege and are willing to provide constant vigilance and unrelenting commitment it requires.

Hydropower & Dams



Ongoing Projects

- i:** Ankhu Khola HPP (34 MW)
- ii:** Upper Chameliya HPP (21.93MW)
- iii:** Kabeli-3 HEP (21.93MW)
- iv:** Likhu-A HPP (24.2MW)
- v:** Lower Tadi Khola HPP (5MW)
- vi:** Upper Trishuli-1 HPP (216MW)
- vii:** Budhi Gandaki Nadi HEP (91.17MW)
- viii:** Nyadi HPP (30MW)
- ix:** Upper Seti HPP (20MW)
- x:** Chhujung Khola HPP (48MW)
- xi:** Simbuwa Khola HPP (70.3 MW)
- xii:** Upper Khudi HPP (21.21 MW)
- xiii:** Sapsup Khola Small HPP (6.6 MW)
- xiv:** Isuwa Khola HPP (97.2 MW)
- xv:** Kaligandaki Storage HPP (844MW)

Completed Projects

- 1:** Manang Marsyangdi HPP (144 MW)
- 2:** Saptang Khola Small HPP (2.5 MW)
- 3:** Lower Barun Khola HPP (132 MW)
- 4:** Jawa Khola HPP (17MW)
- 5:** Bheri-1 HPP (270MW)
- 6:** Budhi Gandaki HEP (1200MW)
- 7:** Upper Lapche HPP (55MW)
- 8:** Karuwa Seti HPP (32MW)
- 9:** Upper Marshyangdi-III HEP
- 10:** Upper Marshyangdi-II HEP
- 11:** Upper Modi HPP
- 12:** Low Head Kaligandaki HPP
- 13:** Chere Khola HPP
- 14:** Saptang Khola HPP
- 15:** Tila HPP
- 16:** Talkot Seti HEP
- 17:** Lower Arun HPP
- 18:** Rawa Khola HPP
- 19:** Deku Khola HPP
- 20:** BAP for Tamakoshi V HEP (99.8MW)
- 21:** SESD for Tamakoshi V HEP (99.8MW)

Feasibility Study of Dams in Dang Valley

- 1:** Vitri Dam
- 2:** Gwar Dam
- 3:** Balim Dam
- 4:** Vutiya Dam
- 5:** Ranighat Dam

Completed Projects

Five Dams in Dang Valley

Client- Mega Dang Valley Irrigation Project

Works- Feasibility Study, IEE & Detailed Design of 5 Dams:

1. Dam at Vutiya Tal- 15m (Earthen Dam)
2. Dam at Ranighat Khola- 43m (Earthen Dam)
3. Dam at Balim Khola-70m (Clay Core Rockfill Dam)
4. Dam at Vitri Khola- 29m (Earthen Dam)
5. Dam at Gwar Khola- 125m (Clay Core Rockfill Dam)

Upper Trishuli- 1 HEP (216MW)

Client - Nepal Water and Energy Development Company Pvt. Ltd.

Works - Assistance in Preperation of Detailed Design, Drawings & Cost Estimates

Manang Marsyangdi Hydropower Project (144 MW)

Client - Marsyangdi Power Company P. Ltd.

Works - Design review, Cost review, financial analysis, preparation of construction schedule, Power and Energy calculation for Peaking RoR, Power Evacuation Study, facilitation of Grid Connection Agreement and Power Purchase Agreement

Saptang Khola Small Hydropower Project (2.5 MW)

Client - Machhapuchhre Bank Limited

Works - Prepare Due Diligence Study Report, review and independent analysis of hydrology and geological study, review and independent assessment of installed capacity and energy generation, review and independent analysis of transmission plan, review of design parameters and criteria, verification of cost estimates, financial analysis

Lower Barun Khola Hydropower Project (132 MW)

Client - Ampik Energy Pvt. Ltd.

Works -Geotechnical investigation that includes 265 m of core drilling and associated laboratory tests

BudhiGandaki HPP (1200MW)

Client - Budhigandaki Hydropower Development Committee

Works -Feasibility study, Detailed Design Report & Tender documents preparation and EIA Studies

Rawa Khola HEP (6.5MW)

Client - Dudh Koshi Power Company Pvt. Ltd.

Works -Detailed Engineering Design & Tender Documents Preparation

Upper Marsyangadi-III HEP (121MW)

Client - VA TECH Hydro, Switzerland

Works -Investigation, Detailed Feasibility Study of the project, which includes Topographical survey, Geological mapping and investigation, Hydrological analysis EIA study etc.

Upper Marsyangadi-II HEP (125MW)

Client - Himtal Hydropower Co. Pvt. Ltd

Works -Investigation, Design and Detailed Feasibility Study.

Upper Marsyangadi-II HEP, Optimization (250MW)

Client - Himtal Hydropower Co. Pvt. Ltd

Works -Investigation of optimal plant capacity. Detail analysis of the project alternatives. Preparation of optimization study report.

Lower Arun HEP (400MW)

Client - Bras Power International, Brazil

Works -Hydrological gauging station establishment, Land Acquisition, Survey, Design and Drawing preparation for approximately 26km long access road

Upper Modi HEP (14 MW)

Client - GITEC Nepal Pvt. Ltd

Works -Upgrading and Detailed Feasibility Report and ACRP Report.

Low Head Kaligandaki HEP (30MW)

Client - Jade Power Pvt. Ltd.

Works -Inventory study & Preparation of Desk Study report

Talkot Seti HEP (75MW)

Client - H2O Hydropower

Works - Inventory study & Preparation of Desk Study report

Deku Khola (3.4MW)

Client - GCE Group Pvt. Ltd.

Works -Inventory study & Preparation of Desk Study report

Tila HEP (500MW)

Client - Tila Hydropower

Works -Inventory study & Preparation of Desk Study report

Chhere Khola (12MW)

Client - Jade Power Pvt. Ltd.

Works -Inventory study & Preparation of Desk Study report

Phukot Karnali HEP (210MW)

Client - PES Engineers Pvt. Ltd.

Works -Preparation of Desk Study report

Upper Seti Hydropower Project (20MW)

Client - Upper Seti Hydropower Pvt. Ltd.

Works - Feasibility Study including Field Investigation (Hydrological & Sedimentological Study, Geological Mapping, Topographical Survey)

Upper Lapche Khola (52MW)

Client - Energy Venture Pvt. Ltd.

Works - Review of Feasibility Study & Detail Project Report. Detail Engineering Design with reinforcement drawing. Preparation of Tender Documents

Upper Trishuli-I HEP (216MW)

Client - Nepal Water and Energy Development Company Pvt. Ltd

Works - Project investigation, Design and Detailed Feasibility Study. Preparation of EIA, ToR Scoping and EIA report, Survey, Design and Drawing preparation of access road

Karuwa Hydropower Project (36MW), Kaski

Client - Jhaymolonga Hydropower Company P. Ltd

Works - Detail design of all project structures including 3.5 Km HRT, preparation of tender documents, survey and design of access road and transmission line, hydrological and sedimentological studies, geological mapping.

Bheri-1 Hydropower Project (270MW)

Client - Gezhouba Group Power Investment Nepal Pvt. Ltd.

Works - Review of Feasibility Study

Jawa Khola HPP (17.2MW)

Client - Department of Electricity Development

Works - Feasibility Study and IEE Study

Preparation of Biodiversity Action Plan (BAP) for Tamakoshi V Hydroelectric Project (99.8 MW)

Client: Tamakoshi Jalvidyut Company Limited

(Funded by Asian Infrastructure Investment Bank)

Works - To conduct and prepare Critical Habitat Assessment, Consultation and Partnership Building Strategy, Mitigation Strategies and Biodiversity Action Plan

Preparation of Supplemental Environmental and Social Documentation (SES) for Tamakoshi V Hydroelectric Project (99.8 MW)

Client - Tamakoshi Jalvidyut Company Limited

(Funded by Asian Infrastructure Investment Bank)

Works - Restructure Environmental Management Action Plan (EMAP), prepare Stakeholder Engagement Plan, prepare Monitoring Plan, conduct Cumulative Impacts Assessment, Climate Change Assessment, develop Pollution control strategy, develop Public Health and Safety Strategy, develop Local employment strategy, prepare Land acquisition and Livelihood Restoration Plan, Environmental Flows and Ecosystem Services Assessment, develop E&S actions to be implemented by the Developer, develop E&S specifications for the EPC contractor.



Ongoing Projects

Contract Management and Related Works for Construction of Sunkoshi Marin Diversion Multipurpose Project

Client: Department of Water Resources and Irrigation

Funding Agency: Government of Nepal

Works: The work involves design review, construction supervision, quality control, project management, construction and contract management

Owner's Engineer Services for Upper Trishuli - I Hydroelectric Project (216 MW)

Client: Nepal Water and Energy Development Company Pvt. Ltd

(Funded by IFC, ADB, AIIB, K-EXIM, KDB, CDC, FMO, PROPARCO and OFID.)

Works: Design Review, Construction Supervision, Contract Administration, Environmental and Social Safeguards Implementation and Compliance Monitoring

Lower Kopili Hydroelectric Project (120 MW), Assam, India

Client: Assam Power Generation Corporation Limited (Funded by ADB)

Works: Independent monitoring of implementation of Social and Environment safeguards during design, construction and operation phases.

Lower Likhu HPP 28.1 MW

Client: Consortium led by Laxmi Bank

Works: Due Diligence Study for Cost Overrun

Landruk Modi Hydropower Project (86.59 MW)

Client: Consortium led by Global IME Bank Ltd.

Works: Due Diligence Study

Mid Hongu Khola - A Hydropower Project (22 MW)

Client: Consortium led by Sanima Bank

Works: Technical Consultant for Bill Verification Work & Construction Monitoring

Upper Piluwa Khola 3 Hydropower Project (4.95 MW)

Client: Consortium led by Laxmi Bank Limited

Works: Technical Consultant for Bill Verification Work & Progress Monitoring.

Rele Khola Hydropower Project (6 MW)

Client: Consortium led by Himalayan Bank

Works: Technical Consultant for Bill Verification Work & Progress Monitoring

Khimti-2 Hydropower Project (48.8 MW)

Client: Consortium led by Sanima Bank

Works: Technical Consultant for Bill Verification Work & Progress Monitoring

Upper Jeuligad Small Hydroelectric Project (4 MW)

Client: WoonSun Energy & Construction Co. Ltd., Seoul, Korea

Works: Feasibility study

Kaligandaki Storage Hydropower Project (844 MW), Parbat & Myagdi District

Client - Department of Electricity Development

Works - Feasibility Study and Environmental Impact Assessment Study.

Upper Khudi Hydropower project (21.21 MW)

Developer: Super Khudi Hydropower Project

Client - Bank of Kathmandu

Works - Due Diligence Study.

Sapsup Khola Small Hydropower Project (6.6 MW)

Developer: Three Star Hydropower Pvt. Ltd.

Client - Himalayan Bank Ltd.

Works - Technical Bill Verification and Progress monitoring

Isuwa Khola Hydropower Project (97.2 MW)

Developer: KBNR Isuwa Power Ltd.

Client - Sanima Bank Ltd.

Works - Technical Bill Verification and Progress monitoring

Ankhu Khola Hydropower Project (34 MW)

Client - Consortium led by Sunrise Bank Ltd.

Works - Technical Consultant for bill Verification Work & Progress Monitoring.

Upper Chameliya Hydropower Project (60 MW), Darchula District

Client - Department of Electricity Development

Works - Feasibility and Environmental Impact Assessment (EIA) study

Simbuwa Khola Hydroelectric Project, Taplejung District, Nepal (70.3 MW)

Client - Remit Hydro Ltd.

Works - Updating Feasibility Study, Conducting Detailed Engineering Survey & Design and Preparation of Tender Documents

Budhi Gandaki Nadi HEP (91.17MW), Gorkha

Client - Surya Energy

Works - Detail Feasibility including field investigation (hydrological and sedimentological study, geological mapping, topographical survey) & EIA

Kabeli -3 HEP (21.93MW), Taplejung

Client - Kabeli HP Dev. Co. P Ltd

Works - Detail Design of all project structures such as headworks, headrace tunnel, penstock, powerhouse, camp facilities, access road including hydrological & sedimentological studies and geological mapping.

Likhu-A Hydropower Project (24.2MW)

Client - Consortium led by Laxmi Bank

Works - Technical Consultant for Bill Verification Work & Progress Monitoring

Nyadi Hydropower Project (30MW)

Client - Consortium led by Everest Bank

Works - Technical Consultant for Bill Verification Work & Progress Monitoring

Lower Tadi Khola HPP (5MW)

Client - Consortium led by Siddhartha Bank

Works - Technical Consultant for Bill Verification Work & Progress Monitoring

Likhu-IV Hydroelectric Project (52.4MW)

Client - Consortium led by Laxmi Bank

Works - Technical Consultant for Bill Verification Work & Progress Monitoring

Langtang Khola Hydroelectric Project (20MW)

Client - Consortium led by Sunrise Bank Ltd.

Works - Technical Consultant for Bill Verification Work & Progress Monitoring

Chujung Khola Hydropower Project (48MW)

Client - Chujung Khola Hydropower Co. Ltd.

Works - Detail Feasibility Study including field investigation (Hydrological and sedimentological study, Geological mapping, Topographical survey)

Upper Seti Hydropower Project (20MW)

Client - Upper Seti Hydro Pvt. Ltd.

Works - Detail Design of all project structures including 2.51 Km HRT , preparation of Tender Documents, survey and design of access road and Transmission line, hydrological and sedimentological studies, geological mapping.

E&S Baseline Data Collection, Downstream Impact Assessment and E-flow Assessment Study, Rapid Cumulative Impact Assessment (CIA) for Upper Karnali Hydropower Project (HPP), Nepal

Client: EDF/GMR

Works: Collection of environmental and social baseline data, E-flow assessment study covering a downstream baseline and initial impact assessment, Rapid Cumulative Impact Assessment (Rapid CIA) on Karnali River

Simbuwa Khola HEP (70.3 MW)

Simbuwa Khola Hydroelectric Project is a RoR type of hydropower project envisaged to be developed in Lelep and Tapethok VDCs (currently in Faktanglung Rural Municipality) of Taplejung district, utilizing the flow of Simbuwa Khola, a tributary of Tamor River. The scheme is a 70.34 MW (installed capacity) hydropower project with a gross head of 888.86 m and design discharge of 9.24 cumecs at 40% flow exceedence level. The major structures of the project are a 5 m high and 17 m long weir and two intakes (3.2 m x 2.5 m). A two chambered underground desanding basin of 80 m length is proposed. The headrace tunnel is 4.393 km long, which will lead to a 26m high underground surge shaft. The design flow will be directed towards the underground powerhouse through a 1.8 m diameter pressure shaft with vertical drop at three places of maximum drop of 300m and length of 2710.42 m. The annual energy generation from the project will be 378.96 GWh and the electricity generated will be evacuated through interconnection with the Dhunge Sangu substation via proposed Koshi corridor.

Client

Remit Hydro Ltd.

Scope of Works

- Review and update of existing feasibility study

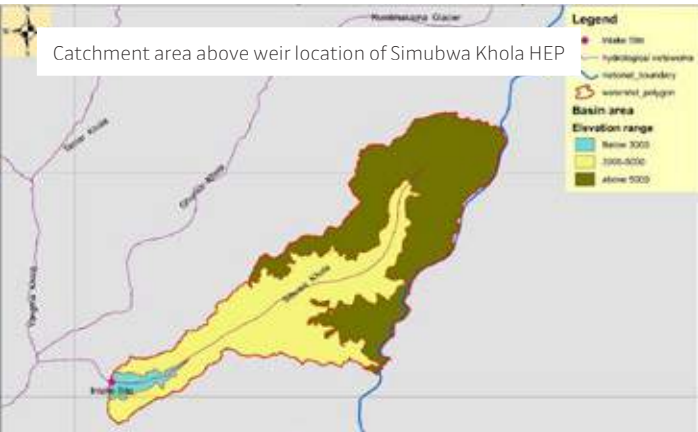
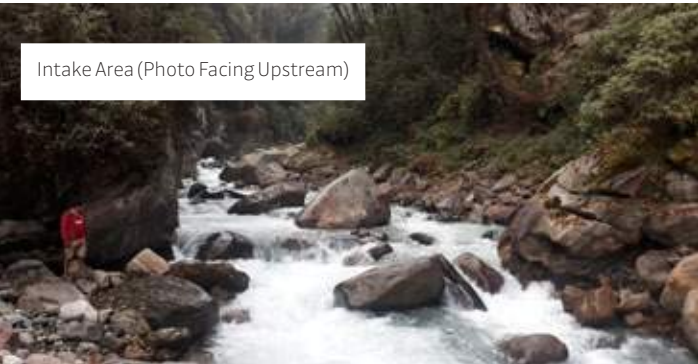
- Detailed Engineering Survey & Design

- Preparation of tender documents

General

Project Location: Taplejung District

Nearest highway: Mechi Highway (Charali- Fungling Bazar)



Jawa Khola HPP (17.2MW)

Jawa Khola HPP (17.4 MW) is a Run-of-River (RoR) type project located in Jumla District, Karnali Zone, Mid-Western Development Region. At present, there is no grid electricity available in Jumla District and its nearby region. The power generated from the project will definitely help to electrify the region and expected to be interconnected into national grid through Karnali Corridor Transmission Line which could materialize in future. Jade is responsible to conduct Feasibility and Initial Environmental Examination Study of the project.

Client
Department of Electricity

Scope of Works
- **Feasibility Study**
- **IEE Study**

General
Project Location: Jumla District
Nearest highway: Karnali Highway



Proposed Powerhouse Site of Jawa Khola HPP



Topographic Survey and Geological Mapping work



Discharge Measurement at Site



Proposed Headworks Area of Jawa Khola HPP



Gauge establishment near proposed Intake and powerhouse site



Observation of Rock mass at Site by Geologist

Budhigandaki HPP (1200MW)

Budhigandaki Hydropower Project is a large seasonal storage-type project located in Dhading & Gorkha district. Tractabel Engineering S. A. France in association with Jade Consult P. Ltd. prepared the Feasibility study, Detailed design report and Tender documents of the project. Main highlight of this project is the 263m high Double Curvature Arch Concrete Dam with a gross reservoir capacity of 4467mm³. This project responds perfectly to the urgent need of power regulation in the country. The study of the project has concluded that the project has a high energy potential, large storage volume, and favorable location and access to Central Nepal, near the main load center. The power generated by the project is expected to be interconnected to the national grid via New Hetauda Substation and proposed Naubise Substation.

Client
Budhigandaki Hydropower Development Committee

Scope of works
- Feasibility study
- Detailed Design Report-submitted on February 2016
- EIA Studies - Approved

General
Project Location: Dhading & Gorkha District,
Latitude 26° 22' to 30° 22' N & longitude 80° 4' to 88° 12' E
Nearest highway: Prithvi Highway

Reservoir
Gross capacity at FSL: 4467Mm³
Effective/Active storage capacity: 2226Mm³
Surface area at FSL: 63km²



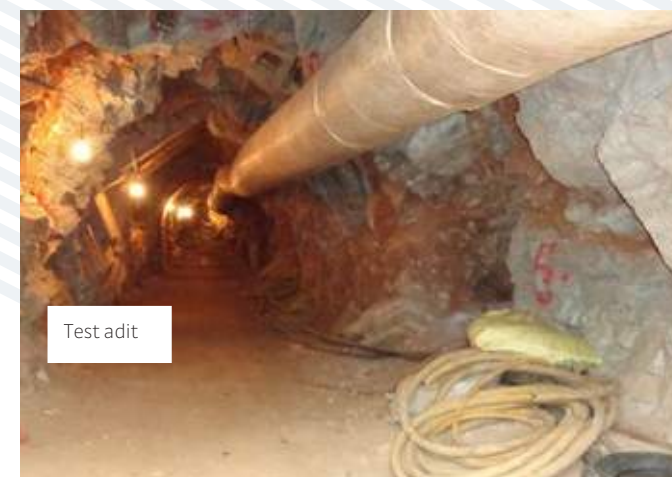
Core Drilling:

Total depth of 1836 m were drilled including 300 m inside test adits.



Plate Jacking Test:

Six sets of Plate Jacking Test in 4 test adits were carried out.



Upper Trishuli-I HEP (216MW)

Upper Trishuli- 1 HEP is located in Rasuwa district, Bagmati zone. UT-1 HEP is financed by International Finance Corporation (IFC) along with other eight international financing institutions namely ADB, AIIB, K-EXIM, KDB, CDC, FMO, PROPARCO and OFID. The power generated from this project is expected to be interconnected into the national grid through Trishuli 3B Hub station.

Client
Nepal Water and Energy Development Company Pvt. Ltd.

Scope of Works
- Feasibility Study
- EIA Study
- Detailed Design
- Owner's Engineer

General
Project Location: Rasuwa district Haku, Gogane and VDCs
Nearest highway: Pasang Lahmu Highway

Birds eye view of project site



Sediment sampling



Access Road



Masonry Wall Construction at chainage 0+360m



Test Gallery at Mailung



Core drilling works



Physical Hydraulic Model Test



Drilling in Powerhouse



Underground Powerhouse Site



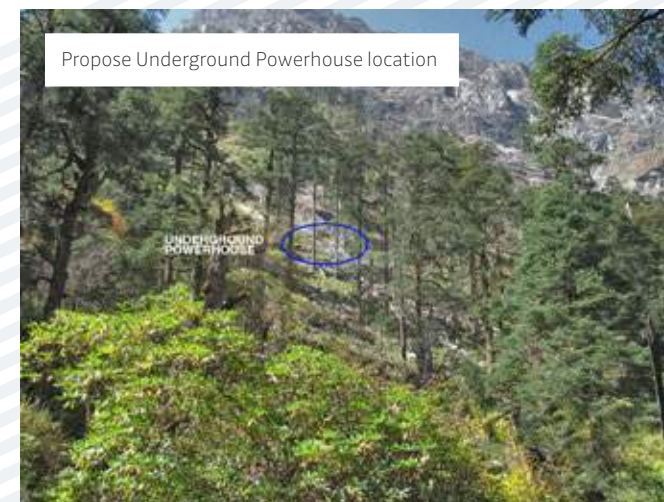
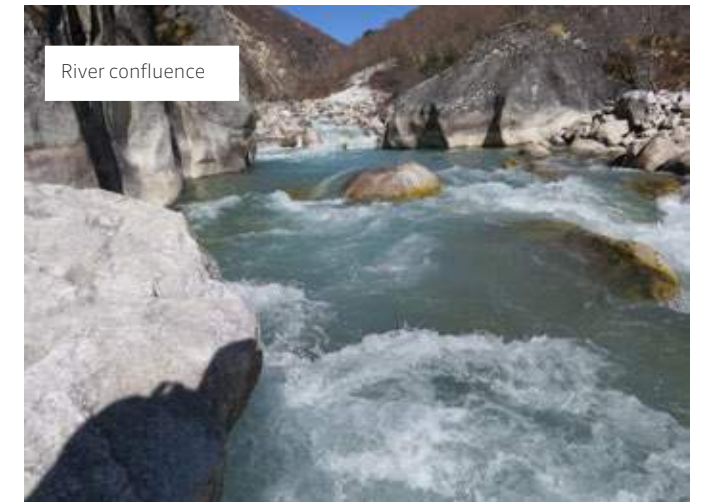
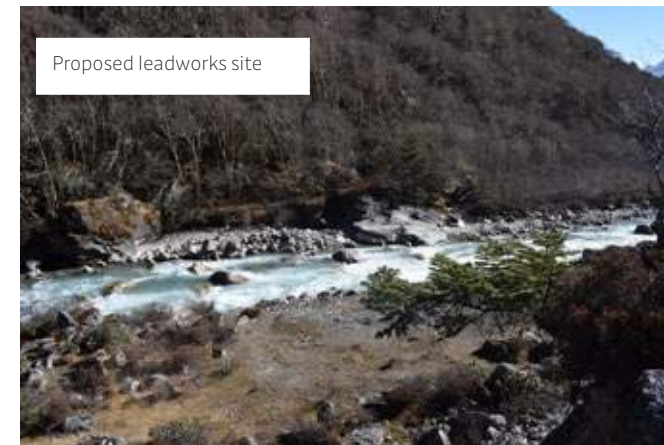
Upper Lapche HPP (52 MW)

Upper Lapche Khola hydropower project (52 MW) is a Run-of-River (RoR) type project located in Dolakha district, Janakpur Zone, Central Development Region of Nepal. The electricity generated from this project has been planned to evacuate at Singati sub-station which is about 36km from powerhouse of the project. This medium sized hydropower project will be highly beneficial to support the government's plan to make Nepal a load shedding free country." Jade is responsible to prepare Detailed Design report and Tender Documents of the project.

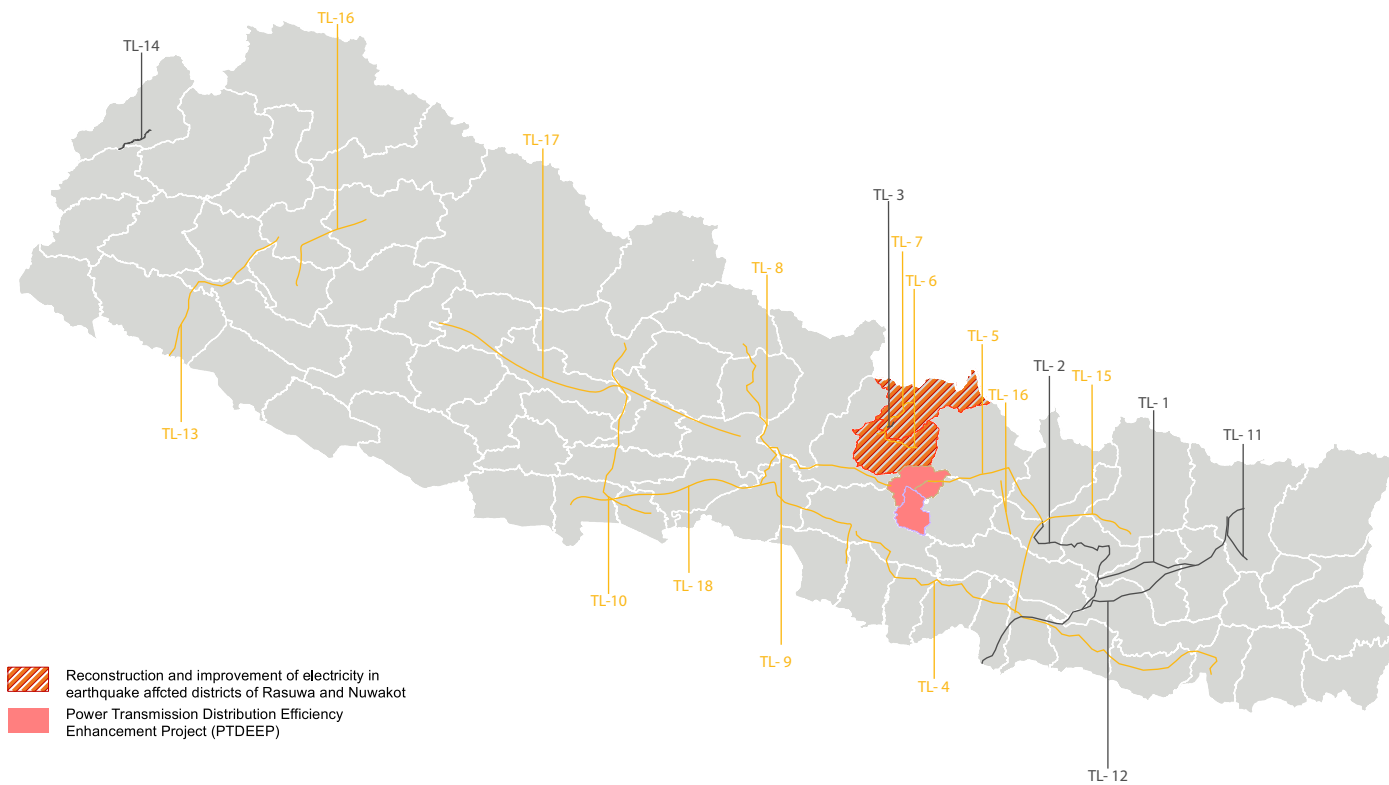
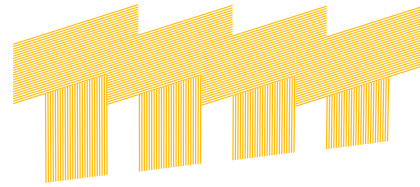
Client
Energy Venture Pvt. Ltd.

Scope of Works
- Review of Feasibility Study and detail project report
- Detail Engineering Design with reinforcement drawing
- Preparation of Tender Documents

General
Project Location: Janakpur zone, Dolakha district, Lamabagar VDC
Nearest highway: Kathmandu-Charikot



Transmission Lines



Ongoing Projects

- TL-4: Hetauda-Dhalkebar-Duhabi 400 kV
- TL-5: Tamakoshi (Khimti)-Kathmandu 220 kV/400 kV
- TL-6: Samundratar-Trishuli 3B Hub 132 kV (SASEC-PSC)
- TL-7: Chilime- Trishuli 220 kV
- TL-8: Marshyangdi Corridor 220 kV (SASEC-PSC)
- TL-9: Marshyangdi- Kathmandu 220 kV (SASEC-PSC)
- TL-13: Kamadev- Phukot 400 kV
- TL-15: Tingla Hub- Likhu Hub- New Khimti- Sunkoshi Hub- Dhalkebar 400 kV TL and Associated Substations (CP-1)
- TL-16: Budhigandaki Corridor (Phillim- Gunda- Ratemate) 400 kV TL and 123 kV Dailekh- Kalikot- Jumla and Lamoshangu- Kavre/ Ramechhap TL and Associated Substation (CP-2)
- TL-17: Damauli- Kusma- Burtibang- Bafikot 400 kV TL and Associated Substations (CP-3)

Completed Projects

- TL-1: Lower Arun- Dhalkebar 400 kV
- TL-2: Khimti- Dhalkebar 220 kV
- TL-3: Upper Trishuli-1 220 kV
- TL-10: Kaligandaki Corridor 220 kV (SASEC-PSC)
- TL-11: Arun-3 33kV
- TL-14: Makarigad Gaun- Balanch 33 kV
- TL-12: Arun-3 400 kV Double Circuit (R&R)

Completed Projects

SASEC (South Asia Sub regional Economic Cooperation) Power System Expansion Project-PPS

- 220kV Kaligandaki Corridor TL Project
- 220kV Marsyangdi Corridor TL project
- 220kV Marsyangdi-Kathmandu TL Project

Client - Asian Development Bank (Implementing Agency-NEA)

Scope: Assist NEA in preparing designs, technical specifications and bidding documents. • Assist NEA in the bidding process and bid evaluation including preparation of technical and financial evaluation reports. • Assist NEA in contract negotiation with the contractor until contract awarded and advance payment paid.

Upper Trishuli-I HEP 220kV Transmission Line Project

Client - Nepal Water and Energy Development Co. Pvt. Ltd (NWEDC)

Scope: Detail TL Survey and Design, and IEE Study

Khimti Dhalkebar 220kV Transmission Line Project

Client - Nepal Electricity Authority (NEA) (World Bank Fund)

Scope: Consultancy for planning design, preparation of bidding document with detail specification, bid evaluation and contract negotiation, design review, quality assurance, construction supervision, contract management and knowledge transfer etc. (In association with Power Grid INDIA)

Ongoing Projects

Study for Environmental and Social Considerations for "The Project for Construction of Transmission and Distribution Network Development in Nepal

Client: NEWJEC Inc, Japan (Funded by JICA)

Works: Environmental and social assessment for the construction of 132/11 kV Birauta S/S including underground transmission line, Preparation of IEE report including RAP.

Assessment for Private Sector Involvement in Power Transmission in The Asia Pacific Region

Client: IFC

Works: Identify specific domestic and cross-border transmission projects that could be considered for possible private sector investment, and prepare and propose amendments to already available tools, documents, and templates for supporting the structuring of these projects.

Feasibility Study and Design of 132kV Transmission Line of Langtang Khola Hydroelectric Project (20 MW), Rasuwa District

Client: Multi Energy Development Pvt. Ltd.

Works: Feasibility study and design of about 4.5km, Single circuit 132 kV transmission line

Tingla Hub - Likhu Hub - New Khimti - Sunkoshi Hub - Dhalkebar 400 kV Transmission Line and Associated Substations

Client - Nepal Electricity Authority (Funded by ADB)

Works: Engineering and Environmental Study

Budhigandaki Corridor (Phillim-Gumda-Ratamate) 400 kV Transmission Line and 132 kV Dailekh-Kalikot-Jumla and Lamoshangu-Kavre/Ramechhap Transmission Line and Associated Substations

Client - Nepal Electricity Authority (Funded by ADB)

Works: Engineering and Environmental Study

Damauli - Kusma - Burtibang - Bafikot 400 kV Transmission Line and Associated Substations

Client - Nepal Electricity Authority (Funded by ADB)

Works: Engineering and Environmental Study

SASEC (South Asia Sub regional Economic Cooperation) Power System Expansion Project-PSC

- 220kV Kaligandaki Corridor TL Project
- 220kV Marsyangdi Corridor TL project
- 220kV Marsyangdi-Kathmandu TL Project
- 132kV Samudratar Trishuli 3B Hub TL Project
- Distribution System Expansion in Eastern, Central, Western Nepal

Lower Arun-Dhalkebar 400kV Transmission Line Project

Client - Lower Arun Hydroelectric Co. P. Ltd

Scope: Desk Study

Arun-3 HPP-33kV TL Project

Client - SJVN Arun-3 Power Development Company P. Ltd.

Scope: Survey & Investigation for Proposed 33kV transmission line.

• Preparation of IEE Report

Makarigad Gaun - Balanch 33 kV Transmission Line Project in Darchula district, Nepal.

Client - Hydro Vision Pvt. Ltd.

Scope: Feasibility Study of 27 km, 33 kV Transmission Line including Topographic survey, Cost Estimation, Geographical and Geological Survey, Design and Project Component Optimization.

Resettlement and Rehabilitation (R & R) Plan preparation of 400 kV Double Circuit Transmission Line (length - 210 km)

Client - SJVN Arun-3 HPP Power Development Company (SAPDC)

Scope: Cadastral Map Verification, Social and Environmental Survey, Preparation of Resettlement and Rehabilitation plan, Supplementary IEE , Detailed survey and Design of Changed Portion of the 400 kV Transmission Line.

Client - Asian Development Bank (Implementing Agency-NEA)

Scope: Grid Substation Reinforcement Sub Project • Construction Supervision of Transmission Line & Substation

Chilime - Trishuli 220 Kv Transmission Line Project

Client - Nepal Electricity Authority (NEA), Nepal, funded by KfW, Germany

Scope: Survey, Geotechnical Investigation • Preparation of technical specifications and bidding documents • Support in Bidding process • Supervision during construction, testing and commissioning

Tamakoshi (Khimti) - Kathmandu 220 kV/400 kV Transmission Line Project

Client - Nepal Electricity Authority (NEA) (World Bank Fund)

Scope: Preparation of technical specifications and bidding documents

• Support in bidding process • Supervision during construction, testing and commissioning

Hetauda-Dhalkebar-Duhabi 400kV Transmission Line Project

Client - Nepal Electricity Authority (NEA) (World Bank Fund)

Scope: Construction Supervision and Substation Design.

Power Transmission and Distribution Efficiency Enhancement Project (PTDEEP)

Client - Nepal Electricity Authority (Funded by ADB)

Scope: Bidding Document Preparation, Project Management & Construction Supervision of distribution networks and underground cabling works.

Reconstruction and Improvement of Electricity in Earth-quake affected Districts of Rasuwa & Nuwakot.

Client - Nepal Electricity Authority (Funded by KfW and EIB)

Scope: Engineering Design, Bidding Document Preparation, Environmental and Social Studies & Construction Supervision.

Karmadev - Phukot 400 kV Double Circuit Karnali Corridor Transmission Line Project

Client - Rastriya Prasaran Grid Company Limited

Scope: Detailed Engineering Design and Environmental Study of Transmission Line and Substations. Preparation of Technical Specifications and Tender Documents. Karmadev (Indo - Nepal Border) - Phukot (Kalikot) is a 130 km double circuit line project, which also includes two 400 kV GIS substations at Phukot and Betan.

Consulting Services for Project Supervision Consultant (Phase II) - Electricity Transmission Expansion & Supply Improvement Project for 400 kV Tamakoshi (Khimti) - Kathmandu Transmission Line and associated Substations

Client: NEA

Funding Agency: ADB

Works: Design review, quality monitoring, and construction supervision

Power Transmission and Distribution Efficiency Enhancement Project (PTDEEP)

The project consists of following sub projects:

- 220 kV Substation at Lapsiphedhi and 132 kV Substation at Changunarayan
- 132 kV Substations at Kathmandu Valley
- Enhancement of Distribution Network in Kathmandu
- Delivery of Distribution Transformers
- Enhancement of Distribution Networks in Major Urban Centers of Nepal

These projects lies on the Kathmandu, Bhaktapur, Lalitpur, Kailali, Banke, Dang, Rupandehi, Kaski, Chitwan, Makwanpur, Parsa, Bara, Dhanusha, Sunsari and Morang Districts of Nepal. The above transmission/Substation projects lies on majorly terai and hilly region of the Nepal. ThWe scope of consulting services include the Demand forecast and load flow studies of the distribution networks, preparation of the tender documents of the Distribution Networks in Major Urban Centers of Nepal, Assistance in tendering and awarding for the Enhancement of Distribution Networks in Major Urban Centers of Nepal, Project Management, Construction Supervision and testing and commissioning of the 220 kV Substation at Lapsiphedhi, 132 kV GIS Substation at Chagunarayan, 132 kV GIS Substations at Kathmandu Valley and Enhancement of Distribution Networks in Major Urban Centers of Nepal.

Client
Nepal Electricity Authority

Funding Agency
Asian Development Bank

Scope of Works
Jade Consult is working in this project with Power Grid Corporation of India Limited, India and providing assistance in;

- preparation of technical specification and bidding documents;**
- support in bidding process;**
 - ensuring quality in project implementation**
 - supervision during construction**
- testing and commissioning of the different sub projects**
- capacity Building of the NEA staff.**



Observation of Finished Ground Level at Lapsiphedhi S/S Site



Site Levelling works on Phutung site



Site levelling works at Lapsiphedhi S-S Site



Observation of conformitv SPT value at Phutung S-S

Hetauda-Dhalkebar-Duhabi (400kV) Transmission Line Project

This is the first 400kV voltage level TL-Project of Nepal that is in construction phase. Once it gets commissioned, this line will be the backbone of INPS (Integrated Nepal Power System) for at least the next 10 years. Jade Consult is working in association with POWERGRID Corporation of India Ltd. in this project.

Client :
Nepal Electricity Authority (NEA)

Scope of Works :
(In association with POWERGRID India)
- Owner's Engineer for Hetauda-Dhalkebar-Duhabi 400kV TL Project
- Design Check and Construction Supervision
- Quality assurance and inspection
- Supervision of installation
- Testing & commissioning of Transmission Line works & Substation works

Project Features

Route: Hetauda to Inaruwa via Dhalkebar (400kv line)
Length: 285 Km
No. of Substations: 3 (220kV of substations at Hetauda, Dhalkebar & Inaruwa)

- Highest Voltage Level TL Project of Nepal till date
- Route Alignment passes through Makawanpur, Bara, Rautahat, Sarlahi, Mahottari, Dhanusa, Siraha, Saptari, Udayapur and Sunsari Districts
- Voltage Level – 400kV (initially will be charged at 220kV)
- Circuit – Double
- Total quantity of 400kV double circuit towers: 792 nos.
- Conductor – ACSR Moose (Quad)



Template setting for tower foundation work



Water curing of foundation and columns



Inaguration of the First 220 kV substation to come in operation in Nepal



Tower erection in Progress



Electrical equipment support structure



Concreting in progress for tower foundation



160 MVA, 220/132 kV Power Transformer Installed at Dhalkebar Substation



Control building at Dhalkebar substation



Foundation works of 220/132 kV Transformer at Dhalkebar Substation

SASEC (South Asia Subregional Economic Cooperation) Power System Expansion Project

The transmission line under this project, are going to strengthen the INPS (Integrated Nepal Power System) in the areas of Marsyangdi, Kaligandaki and Trishuli River Basins, & the distribution system expansion projects under this project are going to strengthen the distribution system network all over the nation. Jade Consult is working in association with POWERGRID Corporation of India Ltd. in this project.

Client
Asian Development Bank

Implementing Agency
Nepal Electricity Authority (NEA)

Scope of Works

(In association with POWERGRID India)

- Assist NEA in preparing designs, technical specifications and bidding documents
- Assist NEA in the bidding process and bid evaluation including preparation of technical and financial evaluation reports
- Assist NEA in contract negotiation with the contractor until contract awarded and advance payment paid.

Project Features

Dana - Kusma 220kV transmission line (40 km length), and **substations at Dana & Kusma**

Kusma - New Butwal 220kV transmission line (88 km length), and **substation at New Butwal**

New Butwal - Bardaghat 400kV transmission line (45 km length), and **LILU of 132kV Double Circuit Butwal- Bardaghat** Transmission Line at New Butwal Substation.

Markichowk- Matatirtha 220kV transmission line (82 km length), and **associated substation at Markichowk extension at Matatirtha.**

New Bharatpur- Markichowk- Udiapur 220kV transmission line (64 km length), and **substation at Udiapur, bay extension at New Bharatpur and Markichowk**

Udiapur - Khudi-Manang 220kV transmission line (50 km length), and **associated substations at Manang and bay extension at Udiapur**



Transformer Installation at Haripur SS



Completion of 1st lift pedestal of BR2-3 Retaining wall at Dana SS



Erected 12 kV VCB Panels at Aurahi SS



Quarter Area



ADB site visit at Kushma SS



Shuttering works is on progress on lintel beam of FFPH at Dana SS



Safety meeting held at Dana SS



Raft of SPR-6 at BR4 Area at Dana SS



Rebar fixing and electrical conduiting at Ground Floor Slab of Control Building at Dana Substation



Concreting of north side retaining wall raft RC5A at Kushma SS



Testing Power Tr. at Haripur SS



Chisapani SS (Measurement of staff quarter foundation)

CHILIME – TRISHULI (220kV) Transmission Line Project

This line passes through high altitude of 2635m, one of the most difficult terrain faced till date for higher voltage transmission line. Once this line is commissioned, it will help to tap a good amount of electric power from the Trishuli and Chilime river basins and supply bulk power to different major load centers of Nepal including Kathmandu. Jade Consult is working on this project in association with POWERGRID Corporation of India Ltd.

Client
Nepal Electricity Authority (NEA), Nepal, funded by KfW, EIB

Scope of Works
(In association with POWERGRID India)
- Survey, Geotechnical Investigation
- Preparation of technical specifications and bidding documents
- Support in Bidding process
- Supervision during construction, testing and commissioning

Project Features
Chilime - Trishuli 220 kV Double Circuit Transmission Line (26.5 Km)
Number of Substation : 2 (220 kV Chilime Hub Substation and 220 kV Trishuli 3B Hub Substation)
Rural Electrification (Neighborhood Support Program)
33/11 kV Substation at Dhunche VDC and/ or Kaule VDC
33 kV Line and 11 kV Distribution lines



Chilime hub region



Surveyor at Proposed Kaule Substation



Compact arrangements of houses at Gatlang (Tamang Basti at Rasuwa), to be electrified under NEC



10 and 15 kVa transformers at Wilsing, Kaule



Site of proposed Chilime Hub Substation



Project manager, Substation expert and team at Trishuli Hub Substation



Terrain of the route alignment of proposed 220 kV line



Glimpse of Goljung electrical distribution



Salme to Bhalche foot trail with bridge crossing



Proposed Distribution Substation location of Ratmate VDC



Proposed location of Trishuli 3B Hub substation and Trishuli River in right side

ARUN -3 HPP (400 kV) Transmission Line

Resettlement & Rehabilitation (R&R) plan for the Nepal portion (Diding-Dhalkebar-Indo Nepal International border at Bathana) of 400kV D/C Diding (Nepal)-Muzzafarpur (India) Transmission line system for evacuation of power from Arun-3 Hydropower Project.

Arun-3 HPP (900MW) is situated in Sankhuwasabha District. A 400kV D/C transmission line has been proposed to evacuate the power from the switchyard of the project at Diding to Muzzafarpur Substation in India. Nepal portion of the transmission line length is 210km and the total 310km D/C line will connect to Dhalkebar Substation via LILO arrangement and eventually connect to Muzzafarpur Substation in India after passing through 7 Gaunpalikas (Rural Municipalities) of Nepal. More than half of the route alignment passes through hilly trunk region and the altitude goes up to 2400m. It also covers plain/terai regions of Nepal.



Client
SJVN Arun-3 Power Development Company (P.) Ltd., India

Scope of Works
(i) Preparation of Resettlement & Rehabilitation Plan (Resettlement Action Plan) for Nepal portion of the 400 kV D/C Transmission Line System
(ii) Detailed survey and detailed engineering of the changed portion of TL
(iii) Supplementary IEE of the changed portion of TL alignment
(iv) Cadastral map verification.



ARUN-3 HPP (33 kV) Transmission Line



Client
SJVN Arun-3 Power Development Company (P.) Ltd., India

Scope of Works
Detailed Survey and Investigation and Preparation of IEE Report & its Subsequent Approval from Government of Nepal for Proposed 33 kV Transmission Line for Arun-3 HPP

Project Features
• Length – 57 km
• Line passes through the 7 VDCs (Village Development Committees) of Sankhuwasabha District
• Line connects Dam Site and Powerhouse Site of Arun-3 HPP with 33 kV NEA Substation at Tirtire



TAMAKOSHI (KHIMTI) – KATHMANDU (220 kV/400 kV) Transmission Line Project

This is the second 400kV transmission line project of Nepal that is in implementation phase. Once this line is commissioned, it will act like a bridge between Kathmandu and Dhalkebar (Major Hub of Nepal for import & export of power with India). Jade Consult is working in association with POWERGRID Corporation of India Ltd. on this project.



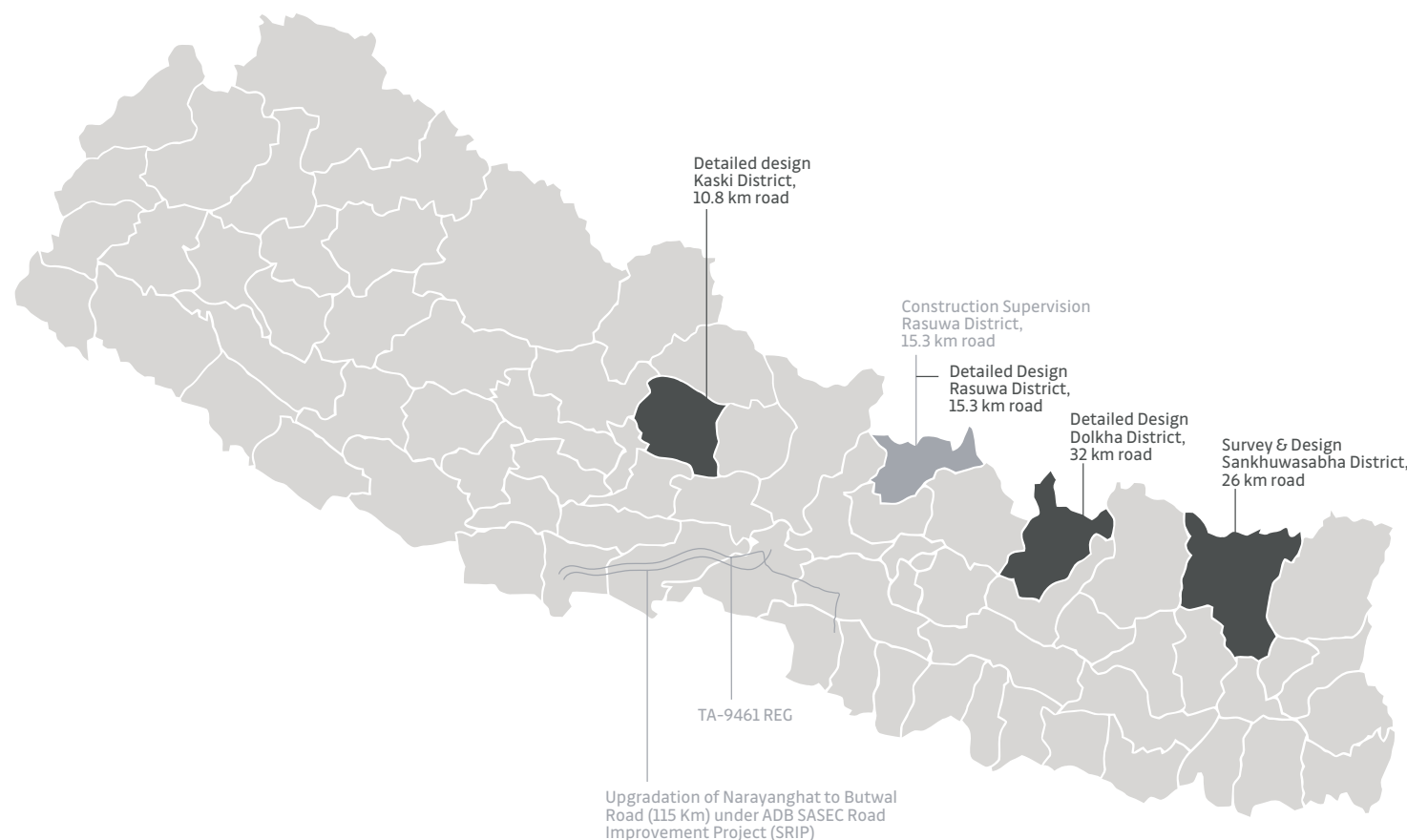
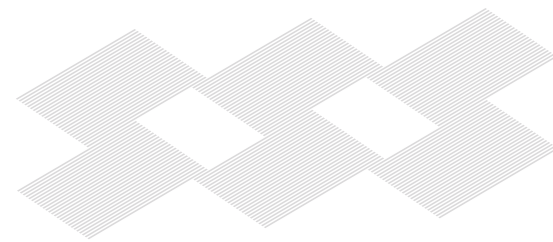
Client
Nepal Electricity Authority

Scope of Works
(In association with POWERGRID India)
- Preparation of technical specifications and bidding documents
- Support in bidding process
- Supervision during construction, testing and commissioning

Project Features
• Khimti – Barhabise –Haledi 400kV/220 kV Double Circuit transmission line (90 km length)
• Haledi-Changunarayan 132kV Double Circuit Transmission Line (10km Length)
• Number of Substations: 3 (new 220 kV substations at Barhabise & Haledi), bay extension at Khimti and 1 new 132 kV substation at Changunarayan
• LILO (Loop-in Loop-out) arrangement at proposed 132 kV Chagunarayan Substation for 132 kV Bhaktapur – Chapali Line



Road/Highways



Jade Consult has been involved in the survey, feasibility study, detailed design and construction supervision of several roads ranging from rural roads to highways in diverse geographical terrain such as mountainous, hilly and terai region of Nepal.

Completed Projects



Detailed Design of Road in Dolakha District, Nepal
Road Length: 32 km
Works - Detailed Designing

Detailed Design of Road in Rasuwa District, Nepal
Finance - International Finance Corporation (IFC)
Road Length - 15.3 Km
Works - Detailed Designing

Detailed Design of Road in Kaski District, Nepal
Road Length: 10.8 km
Works - Detailed Designing

Detailed Design of Road in Sankhuwasabha District, Nepal
Road Length: 26 km
Works- Survey and Design

Ongoing Projects

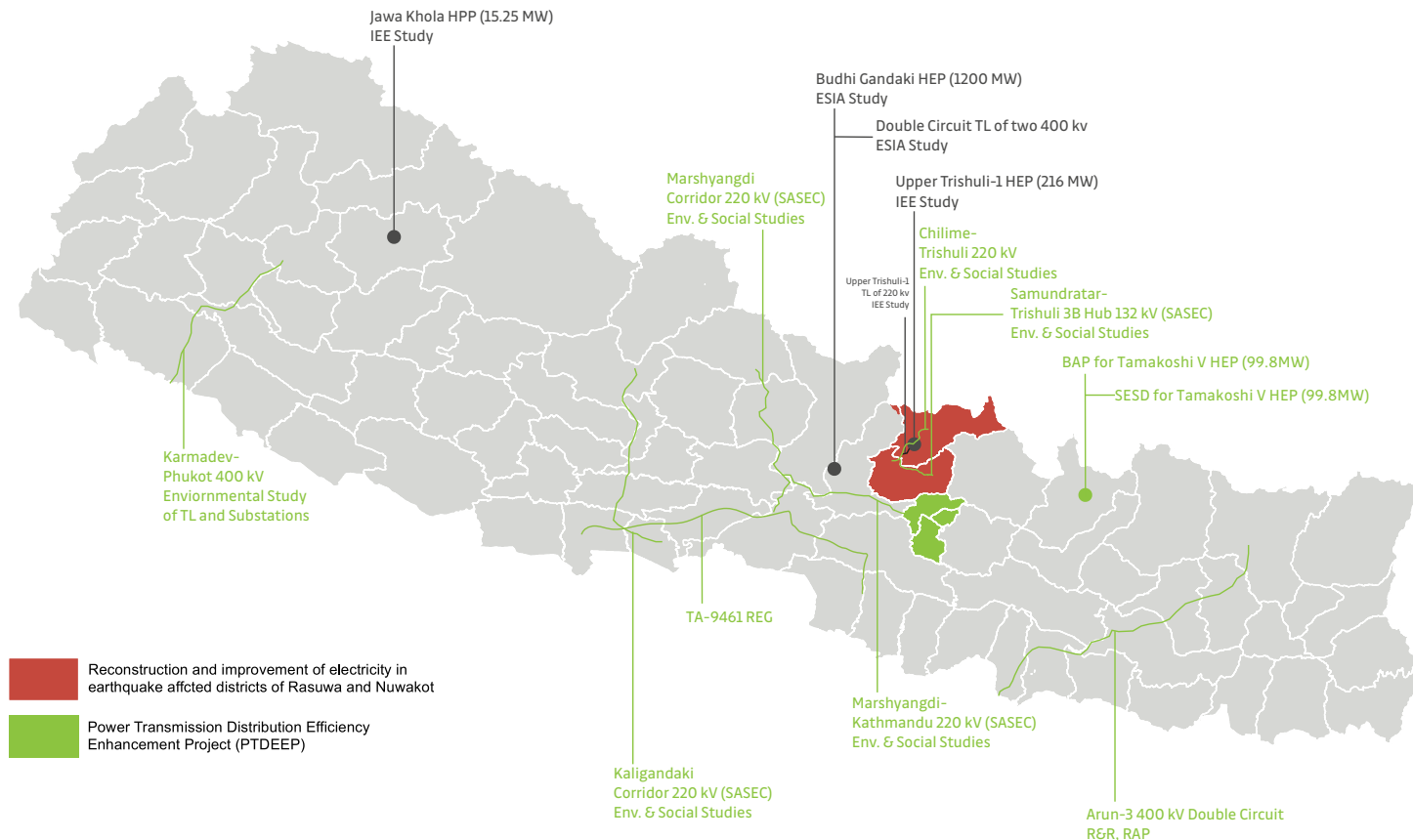
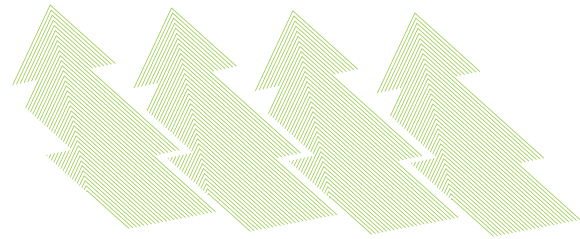
Consultancy Services for Green and Resilient Strategy for Nepal's Selected Highway Corridors
Client: World Bank
Works: Carry out a comprehensive strategic environmental and social assessment of both East West Highway and North South trade corridors and develop a Green and Resilient Strategy for Selected Highway Corridors in Nepal

Construction Supervision of Road in Rasuwa District, Nepal
Finance - International Finance Corporation (IFC)
Road Length - 15.3 Km
Works - Construction Supervision

Upgradation of Narayanghat-Butwal Road (115 Km) under ADB SASEC Road Improvement Project (SRIP)
Finance - Asian Development Bank (ADB)
Works- Technical, legal, environmental and social advisory services

TA-9461 REG: Protecting and Investing in Natural Capital in Asia and the Pacific - Smart Infrastructure Planning and Design (Nepal)
Client - Asian Development Bank
Works - To conduct comprehensive and in-depth ecological studies in and around the project area for the Narayanghat-Hetauda-Pathlaiya road and to provide technical support and guidance for design and implementation of the wildlife mitigation measures and biodiversity conservation plan for the Narayanghat-Butwal road under the SASEC Road Improvement Project (SRIP) project as necessary.

Environmental & Social Studies



Jade Consult has been involved in over a dozen projects related to the environmental and social studies of various infrastructure development projects. Such studies consists of ESIA, EIA & IEE studies, preparation of Biodiversity Action Plan (BAP), Indigenous Peoples Development Plan (IPDP), Vulnerable Community Development Plans (VCDP) Resettlement Action Plan (RAP), Land Acquisition & Compensation Plan (LACP), Stakeholder Engagement Plan (SEP), Environment & Social Management Plan (ESMP) etc.

Ongoing Projects

Owner's Engineer Services for Upper Trishuli - I Hydroelectric Project (216 MW)
Client: Nepal Water and Energy Development Company Pvt. Ltd
(Funded by IFC, ADB, AIIB, K-EXIM, KDB, CDC, FMO, PROPARCO and OFID.)
 Works: Environmental and Social Safeguards Implementation and Compliance Monitoring

Lower Kopili Hydroelectric Project (120 MW), Assam, India
Client: Assam Power Generation Corporation Limited (Funded by ADB)
 Works: Independent monitoring of implementation of Social and Environment safeguards during design, construction and operation phases.

Study for Environmental and Social Considerations for "The Project for Construction of Transmission and Distribution Network Development in Nepal"
Client: NEWJEC Inc, Japan (Funded by JICA)
 Works: Environmental and social assessment for the construction of 132/11 kv Birauta S/S including underground transmission line, Preparation of IEE report including RAP.

Consultancy Services for Green and Resilient Strategy for Nepal's Selected Highway Corridors
Client: World Bank
 Works: Carry out a comprehensive strategic environmental and social assessment of both East West Highway and North South trade corridors and develop a Green and Resilient Strategy for Selected Highway Corridors in Nepal

TA-9461 REG: Protecting and Investing in Natural Capital in Asia and the Pacific - Smart Infrastructure Planning and Design (Nepal)
Client - Asian Development Bank
 Works - To conduct comprehensive and in-depth ecological studies in and around the project area for the Narayanghat-Hetauda-Pathlaiya road and to provide technical support and guidance for design and implementation of the wildlife mitigation measures and biodiversity conservation plan for the Narayanghat-Butwal road under the SASEC Road Improvement Project (SRIP) project as necessary.

Karmadev - Phukot 400 kv Double Circuit Karnali Corridor Transmission Line Project
Client - Rastriya Prasaran Grid Company Limited
 Works - Initial Environmental Examination of 400kv Transmission Line and associated substations, Resettlement Plan, Indigenous People Plan, Social Impact Assessment, Tree Cutting Plan for 400kv transmission line and associated substations

Diding (Nepal) - Muzaffarpur (India) 400 kv D/C Transmission line system for evacuation of power from Arun -3 HPP (Nepal) (PCD-83)
Client - SJVN Arun-3 HPP Power Development Company (SAPDC)
 Works - Resettlement & Rehabilitation (R&R) plan (RAP i.e. Resettlement Action Plan) for the Nepal portion (Diding - Dhalkebar - Indo Nepal International border at Bathanaaha)

Completed Projects

Preparation of Biodiversity Action Plan (BAP) for Tamakoshi V Hydroelectric Project (99.8 MW)
Client - Tamakoshi Jalvidyut Company Limited
(Funded by Asian Infrastructure Investment Bank)
 Works - To conduct and prepare Critical Habitat Assessment, Consultation and Partnership Building Strategy, Mitigation Strategies and Biodiversity Action Plan

Preparation of Supplemental Environmental and Social Documentation (SESD) for Tamakoshi V HEP (99.8 MW)
Client - Tamakoshi Jalvidyut Company Limited
(Funded by Asian Infrastructure Investment Bank)
 Works - Restructure Environmental Management Action Plan (EMAP), prepare Stakeholder Engagement Plan, prepare Monitoring Plan, conduct Cumulative Impacts Assessment, Climate Change Assessment, develop Pollution control strategy, develop Public Health and Safety Strategy, develop Local employment strategy, prepare Land acquisition and Livelihood Restoration Plan, Environmental Flows and Ecosystem Services Assessment, develop E&S actions to be implemented by the Developer, develop E&S specifications for the EPC contractor.

Resettlement and Rehabilitation (R & R) Plan Preparation of 400kv Double Circuit Transmission Line
Client- SJVN Arun-3 HPP Power Development Company (SAPDC)
 Works-Identification of land ownership detail, Social and Environmental Survey, Preparation of Supplementary Initial Environmental Examination of Changed Portion, Preparation of Resettlement Action Plan for the affected seven districts.

Reconstruction and Improvement of Electricity in Earthquake Affected Districts of Rasuwa and Nuwakot
Client - Nepal Electricity Authority (Funded by KfW and EIB)
 Works - Bidding Document of Social Infrastructure Development Component, Environmental and Social Impact Assessment of transmission line (33kv) and substation (33/11 kv), Environmental Impact Assessment of 33kv TL and associated substation 33/11 kv

Power Transmission and Distribution Efficiency Enhancement Project
Client - Nepal Electricity Authority (Funded by ADB)
 Works -Preparation of Environmental Management Plan, Updated Resettlement Plan Report, Social Impact Assessment, and Indigenous People Plan, Periodic Safeguard Monitoring Report (monthly, quarterly, semi-annual)

SASEC (South Asian Sub Regional Economic Cooperation) Power System Expansion Project (Total Project Cost: USD 440.5 Million)
Client - Asian Development Bank (Implementing Agency-NEA)
 Works -Site inspection to monitor compliances (Environmental and Social), Review/update Environmental, Health Safety Plan, Prepare/review of Periodic Safeguard Monitoring Report (monthly, quarterly, semi-annual), Preparation of updated Resettlement and Indigenous Peoples' Plan

Chilime - Trishuli Transmission System Project (220 kv)
Client - Nepal Electricity Authority (NEA), Nepal, funded by KfW, Germany
 Works -Prepare updated Land Acquisition and Compensation Plan for 220kv Chilime-Trishuli Transmission Line Project, Environmental and Social Impact Assessment for Neighborhood Electrification Component, Updated Stakeholder Engagement Plan for 220kv Chilime-Trishuli Transmission Line Project, Environmental and Social Management Plan for 220kv Chilime-Trishuli Transmission Line Project

Upper Marsyangdi - 2 HEP (125MW)
Client: Himtal Hydropower Company P. Ltd.
 Works: Preparation of scoping document and TOR for Environmental Impact Assessment (EIA) Study.

E&S Baseline Data Collection, Downstream Impact Assessment and E-flow Assessment Study, Rapid Cumulative Impact Assessment (CIA) for Upper Karnali Hydropower Project (HPP), Nepal
Client: EDF/GMR
 Works: Collection of environmental and social baseline data, E-flow assessment study covering a downstream baseline and initial impact assessment, Rapid Cumulative Impact Assessment (Rapid CIA) on Karnali River

Jawa Khola HPP (15.25 MW)
Client- Department of Electricity Development
 Works- Initial Environment Examination (IEE) Study

Budhi Gandaki Hydroelectric Project (1200 MW)
Client - Budhigandaki Hydropower Development Committee
 Works -Environmental and Social Impact Assessment (ESIA) Studies

Two double circuit transmission lines of 400 kv to evacuate the power from Budhi Gandaki Hydroelectric Project
Client - Budhigandaki Hydropower Development Committee
 Works -Environmental and Social Impact Assessment (ESIA) Studies

Upper Trishuli-1 HEP (216 MW)
Client - Nepal Water and Energy Development Company Pvt. Ltd
 Works - Initial Environment Examination (IEE) Study

Transmission Line of 220 kv for 216 MW Upper Trishuli - 1 HEP
Client - Nepal Water and Energy Development Company Pvt. Ltd
 Works- Initial Environment Examination (IEE) Study

33kv Transmission line for Arun -3 HPP (900 MW)
Client - SJVN Arun-3 HPP Power Development Company (SAPDC)
 Works-Initial Environment Examination (IEE) Study

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