

specific mitigation measures; prepare Environment Management Action Plan and monitoring plan.

Name of Project: Road Maintenance and Development Project (RMDP), New Road Development and Upgrading Component (NRDUC) financed by the World Bank;

Year: February 2001 To January 2005;

Location : Various Locations in Hilly and Mountainous Terrain;

Client: DOR/RMDP;

Main Project Features: Upgrading and Construction of New Roads;

Position Held: Bio-engineer/ Environmental Engineer;

Activities Performed: Involved in assisting Chief Residence Engineer (CRE) for the preparation of Bio-Engineering guidelines, contract document, and specification. Involve in Detailed bio-engineering Study, Design, Cost estimation of Bio-engineering works and Nursery Development, Nursery Development, implementation plan preparation, Supervision and Monitoring of Bio-engineering works. Conduct on the job Bio-engineering training for Community Based Organizations (CBOs) and Supervisors. Implementation of bio engineering works. Regular environmental compliance monitoring of roads, Ensuring Environment Management Plan/SAP compliance by the Contractors. Prepare future plan of activities. The roads are: Chameliya - Darchula Road (New Road 27 Km); Surkhet - Kalikot Road (Upgrading Road 134 Km); Dharapani - Chhedegad Road (Upgrading Road 60 Km); Gorusinghe - Sandhikharka Road (Upgrading Road 68 Km)

Name of Project: Kaligandaki 'A' Hydro Electric- Project, detail design and detailed bio-engineering site assessment of Pepsicola-Patlechaure - Manohara Dumping Site Road, Sitapaila- Bhimdhunga Road. Funded by: Government of Nepal, Feasibility study. Funded by: Government of Nepal;

Year: November 1998 to January 2001;

Location : Various locations in Nepal

Client: Department of Roads/ District Development Committee/ Nepal Electricity Association;

Main Project Features: Detail design and feasibility study of Various Roads;

Position Held: Bio-Engineer/Environmental Engineer;

Activities Performed: Responsible for Environmental enhancement program, detailed bioengineering design, supervision and monitoring of Bio-engineering works of Kaligandaki 'A' Hydro Electric- Project Main Access Road and Project area, involve afforestation program in surrounding of Kaligandaki project.

Detailed Bioengineering Design and Environmental Management Plan (EMP) preparation of Sitapaila-Bhimdhunga Road, Environmental Management Plan (EMP) with bioengineering assessment preparation of Pepsicola-Patlechaure - Manohara Dumping Site Road

Rajan Kumar Shrestha

Name of Expert

Date



Signature

प्रारम्भिक वातावरणीय परिक्षण प्रक्रियामा संलग्न अध्ययन टोली सदस्यको स्वःघोषणा

प्रतिवेदनको मुख्य शीर्षक: बुटवल -गोरूसिंगे (१० कि मी) गडकस्त्रण्डको स्तरोन्नति

प्रस्तावकको नाम: आयोजना निर्देशनालय (ए.डी.बी.) सडक विभाग

ठेगाना: विशालनगर, काठमाण्डौ

फोन नं: ०१-४४३७४९२, ४४३७४९३

फ्याक्स नं: ४४३७४८८

ईमेल: pdadb@wlink.com.np

म निम्न घोषणा गर्दछु

- म यस आयोजनाको वातावरणीय प्रभाव मूल्यांकन अध्ययन प्रतिवेदनमा संलग्न छु ।
- मैले यो अध्ययन स्वीकार्य अध्ययन विधि प्रयोग गरि तयार गरेको छु ।
- यस प्रतिवेदनमा समावेश गरिएको विवरणहरू सत्य र सही रहेका छन् ।
- मैले यस प्रतिवेदनमा समावेश भौतिक, जैविक, सामाजिक तथा आर्थिक वातावरणीय विवरण तथा मानासीको अध्ययन र जाँच गरेको छु ।
- म संलग्न यस आयोजनाको वातावरणीय अध्ययनसँग सम्बन्धित प्रतिवेदनमा समावेश कुनै पनि भ्रामक जानकारी वा विवरणको न नैतिक तथा कानूनी जवाफदेहीता वहन गर्दछु ।
- माथि बुदाँ नम्बर १ मा उल्लेखित अध्ययन कार्यको सिलसिलामा प्रस्तावित आयोजना क्षेत्रमा डिसेम्बर २०२१ देखि मार्च २०२२ सम्म म स्वयम् उपस्थित भै तथ्यांक संकलन गरेको घोषणा गर्दछु ।
- यो अध्ययन प्रतिवेदनमा बौद्धिक चोरी लगायत कार्यको जिम्मेवारी उहन गर्दछु ।

दस्तखत:

परामर्शदाता संस्थाको द्वाप:

विषय विज्ञ सदस्यको नाम, थर: **अभिषेक बि.सी**

वातावरण इन्जिनियर

मिति: २०७९/९/२९



CURRICULUM VITAE (CV)

1. **Proposed Position:** Environmental Engineer
2. **Name of Firm:** Tech Studio of Engineering Pvt. Ltd.
3. **Name of Expert:** Abhishek B.C
4. **Current Residential Address:** Kathmandu, Nepal
Telephone No.: 9851077446
E-mail address: abhishekbu@hotmail.com
5. **Date of Birth:** 18 April, 1978
Citizenship: Nepali
6. **Education:**

- Master's Degree in Sociology, Tribhuvan University, Kathmandu, Nepal, 2012 (First Division)
- Bachelor of Engineering (Environment), Shri Chhatrapati Shivaji Maharaj Vastu Sangrahalaya, Kolhapur, Maharashtra, India, 2004 (Distinction)

7. Membership in Professional Association:

- Member, Nepal Engineers Association (Membership No. 108881)
- Member, Nepal Engineering Council (Membership No. 20 'Environment')

8. Other Trainings:

- Workshop on EIA Stakeholder Consultation Meeting for New EIA Guideline for Hydropower Sector in Nepal organized by Ministry of Population & Environment and supported by International Finance Corporation & ICIMOD; Presented by Mott MacDonald (M&M) Limited and NESS (February 3, 2016)
- Workshop on Strategic Business Planning of Sarthak Concrete Technology, Organized by Sarthak Concrete Pvt. Ltd. (January 1 to 3, 2016)
- Workshop on Amendments of National EIA Guideline, 1993 organized by Ministry of Science, Technology and Environment (June 17, 2015)
- South Asia workshop on Management of Involuntary Resettlement, Rehabilitation and Benefit Sharing in Infrastructure Development, Organized by The World Bank at Hotel Sothea Crown Plaza; (January 18-19, 2012)
- Workshop on Impact Assessment, Process and Analysis for EIA & SIA conducted by World Bank and organized by ESSD, Nepal Electricity Authority at Hotel Yak & Yeti, Kathmandu, Nepal, (April 1 to 2, 2010)
- Workshop on Strategic Environmental and Social Assessment in Hydropower Sector promoting EIA best Practices in Hydropower development. Organized by Ministry of Environment, GoN, supported by World Bank and AECEN (Environment Assessment Section) at Hotel Yak & Yeti, Kathmandu, Nepal, January 13, 2010
- Training on Statistical Package for Social Science (SPSS), Bristol Institute, Putalisadak, 2009
- Training on ISO 9001 and 14001, Environmental Management Initiative, Kalikasthan, Kathmandu, Nepal, 2008
- Training on OHSAS -18000 (Occupational Health and Safety Assessment Series) for Project work in SESA, Goa, India: Zanti Industries Limited, Goa, India and Kolhapur Steel Limited, Kolhapur, India, 2004

9. Countries of Work Experience:

- Nepal

10. Languages:

LANGUAGES	Speaking			Reading			Writing		
	Good	Fair	Poor	Good	Fair	Poor	Good	Fair	Poor
English	O			O			O		
Nepali	O			O			O		
Hindi		O			O			O	

11. Employment Record:

From	February, 2005	To	Fill date
Employer	Various Consulting Firm/Free lancee)		
Positions Held	Environmental Engineer/ Environmentalist		

12. Detailed Task Assigned	13. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned
Mr. B.C will be responsible for: -Assisting Environmental Specialist in Data collection , surveys ,public hearings ,preparation of various reports etc.	Name of assignment or project: Initial Environmental Examination (IEE) of Dewariya-Bhedababha-Chaunala Sadak, Kailali (15.771 Km); Month and Year: July to August, 2020 (1.5 months); Location: Kailali District, Nepal; Client: Department of Roads/ Planning Monitoring and Evaluation Unit; Main project features: Upgrading of 15.771 km road to bituminous standard; Positions held: Environmental Engineer/IEE Coordinator; Activities performed: Field visit, collection of physical baseline data, identification of physical environmental issues and assisted in the preparation of Terms of Reference Name of Assignment or Project: Year: March to May, 2020 (3 months); Location: Gulmi District, Nepal; Client: Rural Connectivity Improvement Project, Project Implementation Unit-4, Rolpa; Main Project Features: Upgrading of 17.80 km road to bituminous standard; Positions Held: Environmental Engineer/IEE Coordinator; Activities Performed: Coordination with client, study team members & stakeholders, preparation of checklist & questionnaires, collection of physical baseline data (topography, land use, waste management practice, instrumental assessment of air & noise, collection of water & soil samples, etc.), preparation of physical baseline report, assessment of physical impacts & propose mitigation measures; and assisted in the preparation of IEE Report
	Name of Assignment or Project: Initial Environmental Examination for Urban Road Projects in Dhangadhi Sub-metropolitan City (5.98 km); Year: October 2019 to February, 2020(5 months); Location: Kailali District; Client: Department of Urban Development and Building Construction; Main Project Features: Upgrading of 5.98 km road to bituminous standard; Positions Held: Environmental Engineer/IEE Coordinator; Activities Performed: Coordination with client, study team members & stakeholders, preparation of checklist & questionnaires, collection of physical baseline data (topography, land use, waste management practice, instrumental assessment of air & noise, collection of water & soil samples, etc.), preparation of physical baseline report, assessment of physical impacts & propose mitigation measures; and assisted in the preparation of IEE Report
	Name of Assignment or Project: Environmental Impact Assessment Study of Melamchi 2: Yangri and Larke Water Diversion Project funded by ADB and Initial Environmental Examination (IEE) of Road and Bridge from Dhap to Yangri Headworks for Melamchi Phase 2: Yangri and Larke Water Diversion Project ; Year: August 2017 to August 2019(Intermittent 8 months); Location: Client: Melamchi Water Supply Development Board; Main Project Features: Diversion of water from the Larke River and Yangri River through tunnels to be discharged into the Melamchi River where the enhanced water will be diverted through the Melamchi Diversion Tunnel to the water treatment plant at Sundarjal and Upgrading the earthen road to graveled standard from Dhap to Indrawati-Yangri confluence (8.2 km). Positions Held: Environmental and Social Expert/EIA Coordinator; Activities Performed: Responsible for preparation of necessary checklists and questionnaires of the field works, Coordination with client, study team members & stakeholders, collection of physical baseline data (topography, land use, waste management practice, instrumental assessment of air & noise, collection of water & soil samples, etc.) and socioeconomic environment; (conducted focus group discussion (forest user groups, women groups, indigenous groups, disadvantaged groups, water User Groups, etc), Carried out community consultation meeting in the settlements located along the river bank of the impact area, market survey, collection of socioeconomic baseline, etc); Assessment of physical and socioeconomic impact and suggest adequate mitigation measures; preparation of social and environmental management plan and assisted in the preparation of the EIA Report
	Name of Assignment or Project: Detailed Project Report of Kathmandu Terai-Madhes Fast Track (Expressway) Road Project; Year: October 2018 to March 2019(6 months); Location: Bara, Makwanpur, Lalitpur and Kathmandu Districts ; Client: Nepali Army/Ministry of Defence; Main Project Features: construction of 76,289 km long express way with 4 lane; Positions Held: Environmental Expert; Activities Performed: Responsible for review of approved EIA Document, technical report, drawings & maps of the project, conducting field survey and Preparation of revised Environmental Report as per the provided Terms of Reference

Name of Assignment or Project: Consultancy Services for Initial Environmental Examination (IEE) of Cluster 3 : Garma-Nelo-Kagel Airport Road (18.50 km), Okhaldhunga-Rumjatar Road (11.34 km), Okhaldhunga- Rumjatar-Lapse Khola Road (23.62 km), Pipalbhajyang-Haitar-Netrakali Road (37.20km); Year: February 2017 to May 2018 (Intermittent Input of 19 months); Location: Okhaldhunga, Solukhumbu and Sindhuli Districts; Client: Earthquake Emergency Assistance Project/ National Reconstruction Authority/Central Level Project Implementation Unit; Main Project Features: Upgrading of earthen road to gravelled standard; and gravelled road to bituminous standard; Positions Held: Team Leader/Environmental and Social Expert; Activities Performed: Responsible for coordinating and managing the IEE study team and related stakeholders; preparation of necessary checklist & questionnaire for physical & socioeconomic environment; Carried out necessary baseline survey related to the physical and socioeconomic environment; Prepared baseline for water quality, noise level, air quality, solid waste, etc; Conducted focus group discussion & consultation meeting with stakeholder, carried out sample household survey of project affected area, carried out of the project affected ward; analysis and preparation of the socioeconomic baseline data; guiding vegetation survey and wildlife survey; preparation of chapters related to environmental baseline; environmental impact; alternative analysis; mitigation measures; environmental enhancement measures; review of acts, regulations, guidelines, policies, convention and other related institutions; environmental monitoring management plan, cost and benefit analysis and overall preparation of report
Name of Assignment or Project: Consultancy Services for Environmental Assessment (Initial Environmental Examination) of Bhojpur District sector of Puspahal (Mid Hill) Highway Project (88 km); Year: August 2016 to December, 2016(5 months); Location: Bhojpur and Khotang Districts; Client: Department of Roads/ Geo-Environment and Social Unit; Main Project Features: Upgrading of the existing road to all weather bituminous road; Positions Held: Environmental Engineer/IEE Coordinator; Activities Performed: Responsible for coordinating and managing the IEE study team and related stakeholders; preparation of necessary checklist & questionnaire for physical environment; Carried out necessary baseline survey related to the physical environment; Prepared baseline for water quality, noise level, air quality, solid waste, etc.; preparation of physical environmental baseline; environmental impact; alternative analysis; mitigation measures; and assisted in the preparation of IEE Report
Name of Assignment or Project: Feasibility Study and Report Preparation of Thukiya Changa Tokpego Road connecting China Border, Taplejung (51.80 km); Year: May 2016 to June 2016 (1.5 months); Location: Taplejung District; Client: Department of Roads/ Planning Monitoring and Evaluation Unit; Main Project Features: Feasibility Study of road for the improvement of transport reliability; Positions Held: Environmental Expert; Activities Performed: Responsible for preparation of conceptual plan and necessary checklists and questionnaires of the field works, carried out the field survey of the information related to physical environment (topography, vegetation, wildlife, land erosion, slides and slips, etc.), study of various alignments to determine the short and suitable route and assist in the preparation of Feasibility Study Report
Name of Assignment or Project: Consultancy Services for Environmental Assessment (Initial Environmental Examination) of Ridi-Balkot-Mudichaur-Sulichaur-Surkhet Road (73 km); Year: February 2016 to March, 2016 (2 months); Location: Gulmi and Arghakhachi districts; Client: Department of Roads/ Geo-Environment and Social Unit; Main Project Features: upgrading the existing road to all weather bituminous road; Positions Held: Environmental Engineer/IEE Coordinator; Activities Performed: Responsible for coordinating and managing the IEE study team and related stakeholders; preparation of necessary checklist & questionnaire for physical environment; Carried out necessary baseline survey related to the physical environment; Prepared baseline for water quality, noise level, air quality, solid waste, etc.; preparation of physical environmental baseline; environmental impact; alternative analysis; mitigation measures; and assisted in the preparation of IEE Report
Name of Assignment or Project: Consultancy Services for Initial Environmental Examination (IEE) of Cluster 3 : Garma-Nelo-Kagel Airport Road (18.50 km), Okhaldhunga-Rumjatar Road (11.34 km), Okhaldhunga- Rumjatar-Lapse Khola Road (23.62 km), Pipalbhajyang-Haitar-Netrakali Road (37.20km); Year: January 2016 to February 2016 (1 month); Location: Okhaldhunga, Solukhumbu and Sindhuli Districts; Client: Earthquake Emergency Assistance Project/ National Reconstruction Authority/Central Level Project Implementation Unit; Main Project Features: Upgrading of earthen road to gravelled standard; and gravelled road to bituminous standard; Positions Held: Team Leader/Environmental and Social Expert; Activities Performed: Responsible for conducting reconnaissance survey of the road alignment and preparation of Terms of Reference for IEE Study by identification and determination of key physical, biological and socioeconomic & cultural issues as well as proposing the data requirement and methodologies of data collection of socioeconomic and cultural environment for IEE Study
Name of Assignment or Project: Consultancy Services for Environmental Assessment (Initial Environmental Examination) of Bhojpur District sector of Puspahal (Mid Hill) Highway Project (88 km); Year: October 2015 to December, 2015(3 months); Location: Bhojpur and Khotang Districts; Client: Department of Roads/ Geo-Environment and Social Unit; Main Project Features: Upgrading of the existing road to all weather bituminous road; Positions Held: Team Leader/Environmental Engineer; Activities Performed: Responsible for conducting reconnaissance survey of the road alignment and preparation of Terms of Reference for IEE Study by identification and determination of key physical, biological and socioeconomic & cultural issues as well as proposing the data requirement and methodologies of data collection of socioeconomic and cultural environment for IEE Study
Name of Assignment or Project: Consultancy Services for Environmental Assessment (Initial Environmental Examination) of Ridi-Balkot-Mudichaur-Sulichaur-Surkhet Road (73 km); Year: July 2015 to September, 2015 (3 month); Location: Gulmi and Arghakhachi districts; Client: Department of Roads/ Geo-Environment and Social Unit; Main Project Features: upgrading the existing road to all weather bituminous road; Positions Held: Team Leader/Environmental Engineer; Activities Performed: Responsible for conducting reconnaissance survey of the road alignment and preparation of Terms of Reference for IEE Study by identification and determination of key physical, biological and socioeconomic & cultural issues as well as proposing the data requirement and methodologies of data collection of socioeconomic and cultural environment for IEE Study
Name of Assignment or Project: Feasibility Study of Regional & Tourism Road : Thanti Pokhari Bhundaribok Harni Vajre Sinchaur Bhudhintaar Dhudhpokhari Road, Gorkha (45 km); Year: May 2015 to June, 2015(2 months); Location: Gorkha District; Client: Department of Roads/ Planning Monitoring and Evaluation Unit; Main Project Features: Feasibility Study of road for the improvement of transport reliability; Positions Held: Environmental Expert; Activities Performed: Responsible for preparation of conceptual plan and necessary checklists and questionnaires of the field works, carried out the field survey of the information related

to physical environment (topography, vegetation, wildlife, land erosion, slides and slips, etc.), study of various alignments to determine the short and suitable route and assist in the preparation of Feasibility Study Report
Name of Assignment or Project: Feasibility Study of Ranighat-Turanga-Telopani Road, Surkhet (Approximately 37.30 km); Year: May, 2014- June, 2014 (2 months); Location: Surkhet; Client: Department of Roads/ Planning Monitoring and Evaluation Unit, Main Project Features: Feasibility Study of road for the improvement of transport reliability; Positions Held: Environmental Expert; Activities Performed: Responsible for preparation of conceptual plan and necessary checklists and questionnaires of the field works, carried out the field survey of the information related to physical environment (topography, vegetation, wildlife, land erosion, slides and slips, etc.), study of various alignments to determine the short and suitable route and assist in the preparation of Feasibility Study Report
Name of Assignment or Project: Feasibility Study of Mid Hill Highway [Pokhara-Baglung-Musikot-Bonles-Rukumkot-Musikot-Chaurjhari-Dailekh-Lamichaur-Siddha-Belkhet-Mangalsei-Silguthi-Sathanjhi-Jhulaghat Section (Approximately 850 km)]; Year: January 2014 to May, 2014 (5 months); Location: Kaski Purbat, Baglung, Rukum, Jajarkot, Dailekh, Achham, Doti, Dadechhura and Baitadi Districts; Client: Department of Roads/ Planning Monitoring and Evaluation Unit, Main Project Features: Investigation of feasible road alternatives to reduce the existing road length of the Mid Hill Highway by connecting unnecessary rise fall, alignment looping and alignment deviation; Positions Held: Environmental Expert/Study Coordinator; Activities Performed: Responsible for preparation of conceptual plan and necessary checklists and questionnaires of the field works, carried out the field survey of the information related to physical environment (topography, vegetation, wildlife, land erosion, slides and slips, etc.), study of various alignments to determine the short, feasible and suitable route and assist in the preparation of Feasibility Study Report
Name of Assignment or Project: Consulting Services for Architectural Drawing & Design, Landscape Drawing, Quantity Estimation and Rate Analysis of Kalsee Eco Lodge; Year: November to December, 2013 (2 months); Location: Kaski District; Client: Kalsee Eco Lodge Private Limited; Main Project Features: Construction of Eco-Lodge at Lamle; Positions Held: Environmental Engineer; Activities Performed: Responsible for preparation of report related to environmental, socioeconomic and tourism aspect
Name of Assignment or Project: EIA Study of Argha Bhagwati Airport Year: July to November, 2013; Location: Arghakhachi District; Client: Civil Aviation Authority of Nepal (CAAN)/Aerodrome Engineering Department; Main Project Features: Main Project Features: Construction and Operation of Domestic Airport comprising runway (Length-600m and Breadth-30m); Positions Held: Environmental Engineer/EIA Coordinator; Activities Performed: Responsible for preparation of EIA Report
Name of Assignment or Project: IEE Study of Bhandara-Lothar-Malekhu Road (up to Dihatur); Year: July 2012 to October 2012 (4 months); Location: Chitwan District; Client: District Technical Office (DTO), District Development Committee (DDC), Main Project Features: Upgrading of road (20 km); Positions Held: Team Leader/environmental and Social expert; Activities Performed: Responsible for conducting field survey related to physical environment (topography, land use, landside erosion, air, water, noise, waste management practice, etc.) biological (forest , vegetation, wildlife) and socioeconomic environment (Demography, quality of life, agricultural practice, etc.); carrying out consultation meeting to identify the key issues and concerns of local stakeholders and preparation of the IEE Report including environmental baseline, impacts, mitigation, legislation and Environmental Management Plan.
Name of Assignment or Project: Various Projects ; Location: Various locations; Year: March, 2008 to June , 2012 ; Client: Various Clients; Main Project Features: Environmental Assessment of different project Positions Held: Environmental Engineer; Activities Performed: As follows i. EIA Study of Upper Marsyangdi-2 Hydroelectric Project (600 MW) ii. Initial Environment Examination on the Project for Clean Energy Promotion iii. Preparation of Scoping Document and ToR for EIA Study of Special Economic Zone Project iv. EIE Study of Kabele Corridor 132 kV Transmission Line Project v. EIA Study of 110 MW Rasuwagadi Hydroelectric Project vi. EIA Study of Super Madi Hydropower Project (44 MW)
Name of Assignment or Project: EIA/ SIA Study of Outer Ring Road Development Project; Year: June 2007 to February 2008 (9 months); Location: Kathmandu; Lalitpur and Bhaktapur District; Client: Department of Urban Development and Building Construction; Main Project Features: Construction of 71.93-km outer ring road with 50 m road width; Positions Held: Environmental Engineer; Activities Performed: Responsible for reviewing forest documents & information related to proposed outer ring road project (54 km long and 50 m wide); identifying significant areas to be studied for biological and forest aspects; assisting in preparation of field investigation & develop datasheets, checklists, formats, questionnaires for field investigation; identify forest type, species & conduct plot analysis in order to investigate the biomass, density and frequency of species within the plot; investigating & enumerating the number of trees, shrubs, herbs , NTF and medicinal plants available in the road alignment and their uses in local areas; assisting in estimating the costs of trees to be removed; assisting in enumerating avian fauna, mammals, reptiles, amphibians and fish fauna of the project area; prepare a comprehensive list of rare, indigenous, threatened & protected species of plants and animals found in the project area; assisting in the preparation of final biological report of the same.
Name of Assignment or Project: Impact Analysis of Section II: Sindhuli Bazaar-Khurkot Section of Banepa-Bardibas Road Project; Year: February 2006 to June 2006 (5 months) ; Location: Sindhuli District; Client: Department of Roads/Funded by JICA; Main Project Features: ; Positions Held: Environmental Engineer; Activities Performed: Responsible for socio-economic survey by carrying out focussed group discussion in different settlements traversed by road by interacting with public; Data compilation, analysis and processing of the same for final report
Name of Assignment or Project: EIA Study Report of Nepalbuk-Khurkot Road Section of Banepa-Sindhuli-Bardibas Road Project, Section III; Year: February 2005 to July 2005 (6 months); Location: Sindhuli District; Client: Department of Roads/Funded by JICA; Main Project Features: Assessment of operational status of newly constructed highway of length 39 km; Positions Held: Environmental Engineer; Activities Performed: Responsible for field survey, assistance in forest survey, topographical survey, land use survey, household survey, public opinion survey, collection of water samples, compilation, analysis and processing of socio-

[Signature]

economic data (Household survey, focus group discussion, public opinion survey) and biological data (basically vegetation) for final
ETA Report

Certification:

I, the undersigned, certify to the best of my knowledge and belief that

(i) This CV correctly describes my qualifications and experience;

(ii) I am not a current employee of the Executing or the Implementing Agency;

(iii) In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in Form TECH-6 provided team mobilization takes place within the validity of this proposal;

(iv) I was not part of the team who wrote the terms of reference for this consulting services assignment;

(v) I am not currently debared by a multilateral development bank or temporarily suspended by ADB.


[Signature of Expert]

Date: 15 / 07 / 2021
Day / Month / Year

Full name of Expert

: Abbishek B.C

प्रारम्भिक वातावरणीय परिश्रण प्रक्रियामा संलग्न अध्ययन टोली सदस्यको स्वघोषणा

प्रतिवेदनको मुख्य शीर्षक: ब्रुटवल -गोहसिंगे १५.० कि मी। सडकखण्डको स्तरोन्नति

प्रस्तावकको नाम: आयोजना निर्देशनालय (ए.डी.बी), सडक विभाग

ठेगाना: बिश्नालनगर, काठमाण्डौ

फोन नं: ०१-४४३७४९२, ४४३७४९३

फ्याक्स नं: ४४३७४८८

ईमेल: pdadb@wlink.com.np

म निम्न घोषणा गर्दछु

- म यस आयोजनाको वातावरणीय प्रभाव मूल्यांकन अध्ययन प्रतिवेदनमा संलग्न छु ।
- मैले यो अध्ययन स्वीकार्य अध्ययन विधि प्रयोग गरि तयार गरेको छु ।
- यत् प्रतिवेदनमा समावेश गरिएको विवरणहरू सत्य र सही रहेका छन् ।
- मैले यस प्रतिवेदनमा समावेश भौतिक, जैविक, सामाजिक तथा आर्थिक वातावरणीय विवरण तथा सामग्रीको अध्ययन र जाँच गरेको छु ।
- म संलग्न यस आयोजनाको वातावरणीय अध्ययनसँग सम्बन्धित प्रतिवेदनमा समावेश कुनै पनि भ्रामक जानकारी वा विवरणको म नैतिक तथा कानूनी जवाफदेहीता वहन गर्दछु ।
- माथि बुझी नम्बर १ म उल्लेखित अध्ययन कार्यको सिलसिलामा प्रस्तावित आयोजना क्षेत्रमा मिति डिसेम्बर २०२१ देखि मार्च २०२२ सम्म म स्वयम् उपस्थित भै तथ्यांक संकलन गरेको घोषणा गर्दछु ।
- यो अध्ययन प्रतिवेदनमा यौद्धिक चोरी लगायत कार्यको जिम्मेवारी वहन गर्दछु ।

दस्तावेज:

परामर्शदाता संस्थाको रूप:

विषय विज्ञ सदस्यको नाम, थर: रविन डकाल

समाजशास्त्री

मिति: २०७९/१/२१



TECH-6B CURRICULUM VITAE (CV) FOR NATIONAL EXPERTS

1. **Proposed Position:** Social Development / Resettlement Specialist (National)
2. **Name of Firm:** ERMCO (P) Ltd
3. **Name of Expert:** Mr. RABIN DHAKAL
4. **Current Residential Address:**
Telephone No.: +977-9851023494 **E-mail Address:** ods.rabin@gmail.com
5. **Date of Birth:** March 05, 1966 **Citizenship:** Nepali
6. **Education:**
 - **M. A. in Sociology,** Tribhuvan University, Nepal, February, 2000
 - **Master in Business Administration,** Tribhuvan University, Nepal, 1992
 - **B.Com.,** Tribhuvan University, Nepal, 1989
7. **Membership in Professional Association:**
 - Member, Sociological / Anthropological Society of Nepal
 - Executive Member of OMNI Development Society
8. **Other Trainings:**
 - Training on PRA on Irrigation and Water Supply Projects organized by NEPA in October 1994 (2 weeks).
 - Training on CAP (Community Action Plan) organized by RWSSFDB, October 1997 (2 weeks).
 - Social Development & Gender Training organized by Gorkha Welfare Center, March – April 1998 (1 month).
 - Management Training organized by Kurum Management Training Institute, 1992 (3 months)
 - Conflict Management and Peace Building, ITTI, July - August 2009
9. **Countries of Work Experience:**
 - Nepal

10. Languages:

LANGUAGES	Speaking			Reading			Writing		
	Good	Fair	Poor	Good	Fair	Poor	Good	Fair	Poor
Nepali	O			O			O		
English	O			O			O		
Hindi		O			O			O	

11. Employment Record:

From	: March 2009	To	: August 2019
Employer	: Swiss Development Cooperation (SDC) and Asian Development Bank (ADB)		
Positions Held	: Resettlement Expert / Social Safeguard Specialist		
From	: November 2004	To	: December 2017 (Intermittent)
	May 1999		Dec 2000 (Intermittent)
Employer	: ERMCO (P.) Ltd		
Positions Held	: Social Safeguard Specialist / Resettlement Expert / Social Development Expert		
From	: March 2007	To	: March 2009
Employer	: ND LEA Canada in association with CEMAT JV with Soil Test. TMS		
Positions Held	: Social Safeguard and Resettlement Specialist		
From	: July 2003	To	: Feb 2007
Employer	: Roughton International in association with ITECO-FULL BRIGHT-ICGS		
Positions Held	: Social Development and Resettlement Specialist/ Social Safeguard Expert		
From	: August 2001	To	: May 2003
Employer	: ITECO-Nepal		
Positions Held	: Sociologist / Social Safeguard Expert		
From	: Jan 2001	To	: Jul 2001
Employer	: U.N. CEB/Department of Water Supply and Sewerage		
Positions Held	: Social Expert		
From	: Jan 2000	To	: Dec 2000
Employer	: SAFE Nepal; Department of Trade, Commerce and Supplies/ World Bank		

Positions Held	+	Social Expert			
From	+	Mar 1996	To	+	Sept 1998
Employer	+	RWSS/DB/ World Bank-IDA/UNDP			
Positions Held	+	Team Leader / Socio-Economist / Social Expert			

12. Detailed Tasks Assigned	13. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned
Responsible for - Conduct a social impact assessment for the project including assessment of possible land acquisition/resettlement impacts in accordance with ADB's Safeguard Policy Statement 2009. - Prepare a resettlement plan (RP) and indigenous people plan (IPP) as necessary acceptable to the Government and ADB. - Prepare a comprehensive income and livelihood restoration program. - Identify specific measures for the affected poor, ethnic minorities, or other vulnerable households. - Assist Government officials to initiate and expand consultation with the affected communities, local leaders, proprietors, and stakeholders who may be opposed to the Project. - Assess the capacity of the Government in implementing the proposed RP and IPP. - Prepare a resettlement implementation schedule. - Provide supports in recruiting NGO/Agency for RP and IPP implementation and consultants for external monitoring and evaluation. - Prepare a final RP and IPP. - Conduct poverty and social impact assessment. - Plan and conduct stakeholder consultative forum. - Prepare a gender analysis. - Identify mitigation measures and a strategy for implementing. - Questionnaire design and approval. - Socio-economic data analysis. - Coordinate and implement activities involving public outreach and communications in conjunction with other key	(1) Name of Assignment or Project: Decentralized Rural Infrastructure and Livelihood Project (DRILP -18 districts and each district has two road sub-project) and Rural Reconstruction and Rehabilitation Sector Development Project (RRRSDP - 4 districts and each district has three road subproject with average 25 km length) financed by ADB; Years: April 2009 to August 2019 (Intermittent Input of 7 Years : Design 3 years and Construction 4 years); Location: Nepal; Client: Ministry of Local Development, DoLIDAR/Swiss Development Cooperation (SDC) and Asian Development Bank (ADB); Main Project Features: DRILP is a project extending the network of rural transport infrastructure and improving small, community level socio-economic infrastructure. RRRSDP has five components: (i) rural roads, (ii) supplementary infrastructure, (iii) community empowerment, (iv) institutional capacity development, and (v) project management services road are implemented 1-2 lane bituminous standards Project Cost (approx): US\$ 40 millions; Consulting Fees (approx.): US\$ 0.35 Million; Position Held: Social Development and Gender Specialist / Social Safeguard Specialist; Activities Performed: Responsible for establishment of a system for social safeguard, preparing and review IEE, EMP, ensuring and monitoring of that land compensation and resettlement requirement of the client and of ADB are fully complied with Raise the awareness among stakeholders (centre and district level) regarding land acquisition, compensation, Land Donation and Deed mutation issues are fully complied. Prepare resettlement plans, inclusion of EMP / RAP in BoQ of design reports, oversee compensation payment and land transfer documentation and ensure that interest of the poorest and most disadvantaged people is protected. Review Social Action Plans and Resettlement Framework, policy, screening and planning procedure. Contribute to Project Procedure Manual in respect of resettlement procedures. Advise the DDC on the requirement of the Resettlement Framework and provide support and training as required. Ensure that DDC staff (LDO/DTO) understand the position of resettlement activities in critical path of project planning and that they make timely provision of its implementation. Work with DDCs and NGOs engaged for social development works during the identification and design of the subproject to ensure that the requirement for resettlement and compensation is minimized. Provide advice and support in the preparation and approval of resettlement plan where these are necessary for specific sub-projects. Support and assist the DDC during the consultation process required to reach agreement on specific entitlement with each project affected persons (PAP). Monitor the implementation of resettlement plan by respective DDCs to help ensure fair and just treatment for the persons displaced. Verify that requirements of ADB's Resettlement Policy and PAPs' constitutional and legal right have been met before construction works are started by DDC. Confirm that land titles have been transferred to the DDC and compensation paid in full. Work with the NGOs engaged for social development work to see that additional counseling and support is provided to resettled persons, and that they are given opportunities for work in subproject Building Groups and conduct trainings or managing & monitoring social safeguard activities. Conduct periodic follow-up monitoring to ensure that the level of loss have not been significantly reduced. Gender studies, preparation and implementation of Gender Action Plan, Health and Safety Plan, HIV/AIDS and Human Trafficking Programme. Verify that those eligible for income restoration measures have been received their due entitlement of support. The above activities were conducted on design and supervision/ implementation of resettlement and rehabilitation activities of following roads: Beglung-Ghodabadi road, Beglung district - 25.44 km; Beglung-Kuchhri-sara road, Beglung district - 21.52 km; Shreebhawal-Hat road, Baitadi district - 24.470 km; Salara-Melauli road, Baitadi district - 19.515 km; Beni-Darlung road, Myagdi district - 23.05 km; Mantali-Pakharas road, Ramechhap district - 16.8 km; Mantali-Dhola road, Ramechhap district - 2.26 km; Salara-Jatardhap road, Solukhumbu district - 23.390 km; Garma-Budhidanda road, Solukhumbu district-27.116 km; Ramjitar-Kharakhola road, Okhaldhunga-16.571 km; Balpot-Mundredwan road, Okhaldhunga-31.4 km; Bantechaur-Khuleswar road, Sindhupalchok district-10.57 km; Siddhanga-Tekamper road, Sindhupalchok district, 23.094 km; Khaniyakharka-Kamerechanjyang road, Sindhuli district - 16 km; and Sunkhar-Kyanpa road, Dolakha district - 27.19 km. Review of resettlement reports of following roads: Gupha-Sunglu road, Taplejung district - 20.64 km; Suncarbezaar-Kunche-Dripile, Lamjung district, 23.58 km; Dhungagade-Arneghar road, Gorkha district - 45 Km; Kaulung-Rama road, Jajkoti district - 16.028 km; Dhoke-Lekhachauram road, Jajkoti district - 1.9 km; Rungli-Charadi road, Kailali district -13 km; Salkhola-Charkot road, Humla district -23.7 km; Garagadi-Taleha-Rara Road, Mugu district -14.4 km; and Bhole-Larichak-Parlungur road, Darchule district -14.8 km. (2) Name of Assignment or Project: Environmental and Social Study for Kathmandu (Nagdhunga) -Nubise -Mugling Road and Bridges and Environmental and Social Assessment of East -West Highway and Bridges (Kathmandu -Pahalya Saroni); Years: June 2017 to December 2017 (12

professionals - Identify project-related interests of key stakeholders, likely barriers to their participation in and benefiting from the project resources, and suggest feasible strategies for addressing their concerns. - Conduct assessment of risk of human trafficking and HIV/AIDS due to the project and suggest for necessary mitigation measures and a strategy for implementing them - Prepare the reports on approved format - Conduct a workshop training to provide guidance to the DOR on Project-related social issues.	months Internittent; Location: Kathmandu, Munglir, Kakarbhita, Pathariya in Nepal; Client: DoR/ World Bank; Main Project Features: Environmental and Social Study of 4 lane Bituminous Highway Project Cost (Approx): US\$ 18 million; Consulting Fees (approx.) US\$ 3.18 million; Position Held: Social Development Specialist / Resettlement Expert; Activities Performed: Responsible collecting data and Social assessment and social planning studies (Design and RSTA Stage), preparation of resettlement & preparation of Indigenous people plan (IPP), planning for resettlement, GAP, HIV/AIDS, Human Trafficking etc and implementation and rehabilitation works.
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(3) **Name of Assignment or Project:** To Support and Assist Department of Local Infrastructure Development and Agricultural Roads (DoLIDAR) for the Preparation of Follow on Project of Rural Reconstruction and Rehabilitation Sector Development Program (RRSDP) - 2 (Design of Bituminous Road); Year: November 2015 to May 2017 (6 Months Internittent; **Location:** Various District of Nepal; **Client:** RRSDP/DoLIDAR / ADB; **Main Project Features:** Detail engineering design, IFC and preparation of resettlement plan. The major roads are as follows: Panchthar: Phidim-Nagin - Sirin - Phungbung - Ura - Road (Phidim - Lufinter Sector) - 35 Km; From Mangalbare - Phungbung - Astappa - Sikari Baangyan - Phakphok - Ramnabi - Channawang - Phingapur - Aamchok - Jungtar - Phuyakappa - Rabi Road (Seri Chundukhandu) - 20 Km; Morang: Khorshaze - Korawari - Singhadevi Road (23 km left to be upgraded out of 38 km) - 26 Km; Laxmi Margi - Daghat - wangi - wawighyria - Amahi Road (29 km left to be upgraded out of 31 km) - 29 Km; Sunseri: Inarawa - Sitarang Joda - Chitima - Parbhakusaha - Him nagar Road - 27 Km; Jharkha - Shingiyi - Ramdhani - Prayashpur - Shukrawari - Madhuwan - pashinkuscha Secondary School along Laukchi Bhasar Road - 29 Km; Dhanakuta: Phising - Tolung - Waspur - Onlung - Mayatu - Turse - Upadengadi - Shaktikhor Bazar Road - 35 Km; Kavrepalanchok: Dolaghar - Phalar - Kelari - Dhadshark - Pokharichaur - Gurase Road - 31 Km; Lalitpur: Ghatwari Khola-Corridor Road - 25 Km; Lalit Chumti Road - 25 Km; Rukum: Solawang Kaula Walawa Nayegowdipul Jannabagar Samachaur Chakre - Ramnabok - Road's Nayegowdipul Jannabagar Sector - 22 Km; Kakti-Kala-Takasora-Hukam-Makot Road - 20 Km; Rapti: Mijhing-Runiwazung-waachaur-Gunachaul-Harjung-Syuri-Gumti Road - 24 Km; Manang: Kote-Meta-Near-Phu Road - 20 Km; To Black Top Chauri Tunki Manang Road - 31 Km; Mustang: Dhusang Vena Road - 20 Km; Buda-Bingbuda-Ligma Road - 46 Km road are design as per Bituminous Standards **Total Project Cost (approx.):** US\$ 255.40 million; **Consulting Fees (approx.)** US\$ 1.3 million; **Position Held:** Social Development and Gender Specialist / Resettlement Expert; **Activities Performed:** Responsible for; (i) Review and track GoN's policies and guidelines on social development, mainly in the decentralization context and inform DoLIDAR and DDCs to endorse it in view of project requirements; (ii) Formulate and orient Field kits to carry out the field level activities by the field teams; (iii) Supervise and guide staff field teams to plan social development activities; (iv) Design social rehabilitation program activities to support all aspects of project planning and implementation, specifically in infrastructure and livelihood empowerment components of the project; (v) Preparation of resettlement action plan and implementation of resettlement rehabilitation activities; (vi) Review best practices, lesson learned and impact assessment reports in social interventions of similar projects and accordingly, adjust and upgrade social development components of the project; (vii) Lead the field team and guide the all socially-related aspects; (viii) Prepare and finalize Social Action Plans (SAP), Gender Action Plan (GAP) and Indigenous People Development Plan (IPDP) as per the requirement of individual road subprojects; (ix) Gender studies, preparation and implementation of Gender Action Plan, Health and Safety Plan, HIV/AIDS and Human Trafficking Programme.

(4) **Name of Assignment or Project:** Project Preparatory Consultant I for Road Component (PPCI - Road - approx. 900 KM Bituminous Road) of Transport Project Preparatory Facility (TPPF) with approx. 500 KM of Detail Design Study and more than 900 KM Feasibility Study of Road. ADB Grant No. 0227 - N/P; Year: September 2011 to February 2014 (Intermittent, 18 Months); **Location:** Nepal; **Client:** Department of Roads / Project Directorate (ADB); **Main Project Features:** Detailed Design Study, Socio-economic Impact Assessment, Preparation of SAP and RAP and Impact Assessment of Road Project (Bituminous 2-4 lane standards) **Total Project Cost:** US\$ 65.23 million; **Consulting Fees (approx.)** US\$ 3.5 million; **Position Held:** Resettlement / Social Development Expert / Social Safeguard Specialist and Gender Specialist; **Activities Performed:** Responsible for; (i) Conduct site visit, assessment of social impacts and costing of rehabilitation and preparation of Resettlement Action Plans (RAPs) and IIMP; (ii) Assist establishing task force at projective and resolve complaints/ grievances; (iii) Prepare General Forums with the Affected Communities and gather their views on resettlement process being carried out by the client and contractor; (iv) Analyze Gender-related Impacts of Construction Works; (v) Establishment of system for monitoring social safeguard, ensure compliance of Social Impact Mitigation requirements of contracts and provide information to ADB on this process on monthly basis; (vi) Gender studies, preparation and implementation of Gender Action Plan, Health and Safety Plan, HIV/AIDS and Human Trafficking Programme; **Preparation of Resettlement Action Plan, Social Action Plan and HIV/AIDS and Human Trafficking Programme in Detailed Design Study of major roads are as follows:** Ramapur Lumbini-Kukurhuwa (34.57 KM); Mandali-Ramachaur (13.35 KM); Hulesi-Diktel (35.36

KM); Leguwaughar-Bhojpur (65.48); Leguwaughar-Timlingtar (Subha Khatu) - 24.63 KM; EWII-Kushi Bridge-EWII (62 KM); Mechupal-Chandrugudhi-Bitumod (15.25 KM); Gidneghar-Birtchowk (21.80 KM).

Resettlement Action Plan and Social Action Plan for Feasibility Study and Detail Design Study of major road are as follows.
Kathmandu (Thunkot) – Mugling (Tunnel 4 Km at Nagbhungta) – 98 KM; Dumre – Besisahar (43 KM); Sirtale – Chammie (30 KM); Bhojpur – Diktel (55 KM); Besisahar – Sirtale (30 KM); Kathmandu Urban Roads (30 KM); Dhurau – Chutara – Gaighat – Kutari (86 KM); Rishi – Rudruheni – Wami Taksar (57 KM); Dhadingbasi – Arughat – Gorkha (71 KM); Bhedetar – Rabi Banke (115 KM); Melanchipul – Anubathan Road (18 KM); Malekhu – Lathar (Tunnel option – 55 KM); Udipur.

(5) **Name of Assignment or Project:** Road Connectivity Sector Project financed by ADB; **Year:** March 2007 to March 2009; **Location:** Nepal; **Client:** Department of Roads (DOR) / ADB; **Main Project Features:** Upgrading 300 km road in central, eastern and western development region Under DOR ADB Grant (051 NEP (SF); **Project Cost (approx):** US\$ 55 Million; **Consulting Fees (approx.)** US\$ 0.6 Million; **Position Held:** Social Development, Gender and Resettlement Specialist; **Activities Performed:** Prepare and implement Resettlement Action Plan, Social Action Plan and Indigenous Development Plan. Monitor and supervise social safeguard screening activities, facilitate to DoR for establishment of monitoring of social safeguards of project, identification and inclusion of social safeguard / RAP costs in BoQ, land acquisition, resettlement, relocation, and community consultation activities e.g. organize and participate CDC meetings, coordinate Govt. institutions, preparation of report for finalization the cost of loss, verification of compensation process, deployed and train the cadastral surveyor, social mobilizer and social surveyor, assist to LRO officer to transfer the ownership of land, Formation and train road building groups. Enhance the skills of NGOs working along the road. Prepare resettlement related cost plan. Aware the project affected people to get compensation timely and transparently. Rehab the physically displaced people at appropriate place and advise the affected people for best utilization of compensated amount. Facilitate to launch IG and Non-IG programme for all scale infrastructure project for poor and project-affected people through NGOs. Train and support to operate saving and credit programme. Gender studies, preparation and implementation of Gender Action Plan, Health and Safety Plan, HIV/AIDS and Human Trafficking Programme. Involve in selection, assessment and monitoring aspects of supplementary investment schemes. Actively participate in compensation payment process including facilitation and regularization and deed transfer activities at the district with concerned stakeholders. Actively take a lead role to conduct socio-economic survey and data entry of each road sub-projects. Support and assist Project Manager to reach agreement with Project Affected Persons (PAPs) over entitlements. **Involved in design and supervision/implementation phase of following roads and bridge:** Galchi – Trishuli – Syurbasahi 93 km; Tamakoshi – Minthali – Khurkot 55 km; Phidim – Thaplejung 85 km; Dhulkebar – Jumlaipuri 25 km; Thaplejung – Airport (Suketa) 8.5 km; and Sunkoshi Bridge; and **Involved in design phase of following road:** Harkapur – Okhaldhunga 42 km; Okhaldhunga – Salleri 60 km; Badinawa – Jaulihawa 40 km; Kudi – Chammie 46 km; and Outer Ring Road 60 km and Sunkoshi Bridge.

(6) **Name of Assignment or Project:** Rural Access Improvement and Decentralization Project (RAIDP) (The World Bank funded); **Year:** August 2006 to September 2007 (Intermittent); **Location:** Nepal; **Client:** Department of Local Infrastructure Development and Agriculture Roads (DOLIDAR)/WB; **Main Project Features:** The project under Ministry of Local Development covered 20 districts in Central, Eastern, western and Midwestern region and at least two road sub-projects average 25 km length (design and implementation), Feasibility and Detailed design of Daskarathipur – Notadhar Road (50 km) and Kahunakole – Dhadpokhari Sikkesh Road (55 km); **Project Cost (approx):** US\$ 29 Million; **Consulting Fees (approx.):** US\$ 0.32 Million; **Position Held:** Social Development and Resettlement Specialist; **Social Expert; Activities Performed:** Establishment of monitoring of social safeguards of project, preparation of Resettlement Action Plan, Vulnerable Development Plan and compile Screening report of RAIDP district and identification and inclusion of social safeguard / RAP costs in BoQ. Monitor, supervise and coach district NGOs. Facilitate DDC and SDC/PDE to implement RP and other community development activities. Train/Facilitate DDC staff in Land acquisition and other social safeguard issues. Produce quarterly, half yearly and yearly report. Prepare baseline report of 20 RAIDP District. Revise District staff to prepare social screening and workshop survey report. Prepare 20 RAIDP districts road statuses. Prepare resettlement related cost plan. Aware the project affected people to get compensation timely and transparently. Facilitate Project coordinator, Project coordination Unit (PCU) and District Development Committee (DDC) in Land acquisition, Resettlement, rehabilitation, and relocation. Planning and budgeting resettlement, test Review Environment and Social Management Framework (ESMF) and Resettlement Framework, policy, screening and planning procedure. Contribute to Project Procedure Manual in respect of resettlement procedures. Advise the DDC on the requirement of the Resettlement Framework, and provide support and training as required. Ensure that DDC staff (LXO/DFO) understand the position of resettlement activities in critical path of project planning and that they make timely provision of its implementation. Work with DDCs and NGOs engaged for social development works during the identification and design of the subproject to ensure that the requirement for resettlement and compensation is minimized. Provide advice and support in the preparation and approval of these Plan where these are necessary for specific sub-projects. Support and assist the DDC during the consultation process required to reach agreement on satisfactory settlement with each project affected persons (PAP).

(7) **Name of Assignment or Project:** Small Town Water Supply and Sanitation Sector Project in Birtumod, Bama funded by ADB; **Year:** November 2004 to June 2006 (Intermittent 5 Months); **Location:** Bama District; **Client:** SIWSSP / ADB; **Main Project Features:** Socio-economic Study, Community Mobilization, Social Mobilization, and Conduction of PAC for Water Supply and Sanitation Project; **Position Held:** Project Coordinator / Social Safeguard Specialist / Social Development Expert; **Activities Performed:** Responsible for social safeguard which included (i) Assess the need for resettlement corresponding to various alternatives of a subproject and help in identifying the best solution as per social analysis, prepare HIF reports and Resettlement Plan or a Short-Resettlement Plan (SRP) for subprojects in accordance with ADB Guidelines (ii) Establishment of monitoring of social safeguards of project and prepare socio-economic profile of each project town (iii) Develop general criteria for socio-economic stratification of the society and prepare profile of each town based on these criteria (iv) Based on the different socio-economic strata, prepare for each town, possible structures for differential contribution in capital investment, O&M and tariff etc for consideration of project authorities (v) Develop Gender Action Plan (GAP) for active involvement of women as equal partners (vi) Develop social inclusion and indigenous people's program for specifically benefiting the poor and weaker sections of the towns on priority and with additional, Decree specific criteria to identify the poor and generate alternative mechanisms to target the poor. Identify the best mechanism to administer Output Based Aid (OBA) to the poor for effective, economic, transparent and participatory delivery system including independent verification (vii) Review the Resettlement Plan prepared during the feasibility study phase and revise in the light of detailed designs and prepare Resettlement Plan accordingly (ix) Support for preparation of costing and financial planning and implementation in aspects of social

subgrants (x) Supervision and monitoring of implementation of resettlement plan, Environmental Management Plan (EMP), Gender Action Plan (GAP) and Community Awareness Programme (CAP).

(8) **Name of Assignment or Project:** Road Network Development Project (RNDP) financed by ADB, Year: July 2003 to February 2007; **Location:** Kasim, Nepal; **Client:** Department of Roads (DoR)/ADB; **Main Project Features:** Upgrading/Improvement of about 150km roads. **Project Cost (approx.):** US\$ 150 Million; **Consulting Fees (approx.):** US\$ 1.5 Million; **Position Held:** Social Development and Resettlement Specialist / Social Safeguards Expert; **Activities Performed:** Establishment of monitoring of social safeguards of project, prepare and implement Resettlement Action Plan, Social Action Plan and Indigenous Development Plan, identification and inclusion of social safeguard / RAP costs in BoQ, Facilitate to DoR for land acquisition, resettlement, relocation, and community consultation activities e.g. organize and participate CDC meetings, coordinate Govt. Institutions, preparation of return for finalization, the cost of loss, verification of compensation process, deployed and train the cadastral surveyor, social mobilizer and social surveyor, assist to LRO officer to transfer the ownership of land. Enhance the skills of NGOs working along the road. Prepare resettlement related cost plan. Advise the project affected people to get compensation timely and transparently. Advise the affected people for best utilization of compensated amount. Facilitate to launch IG and Non-IG programs for poor and project-affected people through NGOs. Implement of Resettlement Plans including fair and just treatment of displaced persons and adherence to ADB policy. Compliance with PAP's constitutional and legal rights, completed transfer of land titles and compensation paid in full; all before construction works are started. Actively took a lead role to conduct socio-economic survey and data entry of each road sub-projects. Support and assist Project Manager to reach agreement with Project Affected Persons (PAPs) over entitlements. Involve in selection, assessment and monitoring aspects of supplementary investment schemes. Actively participate in compensation payment process including facilitation and negotiation and deed transfer activities at the district with concerned stakeholders. Rehab the physically displaced people at appropriate place and advise the affected people for best utilization of compensated amount. The above activities were conducted on design and implementation of following roads and bridges: Dolaghat - Chaurara : 25km, Paurabisingang Phuzim: 25 km; Damaik - Chaurigunj: 25 km; Hile - Basantapur: 25 km; Basantapur - Mudhe: 13 km; Mudhe - Khadbari: 60 km; Uralbari - Bardunga - Rangoli - Biratnagar: 62 km; and Piluwai Kholi Bridge 96 m (Single Span Steel truss).

(9) **Name of Assignment or Project:** Small Towns Water Supply and Sanitation Project; Kamalamai, Surunga and Bardibas WSSP/ADB; **Year:** October 2002 to May 2007; **Location:** Nepal; **Client:** Department of Water Supply and Sewerage / ADB; **Main Project Features:** Feasibility study, detailed engineering design and construction supervision of small towns water supply and Sanitation projects in towns of Kamalamai, Bardibas and Surunga. The project also consisted training to the user's beneficiaries and management issued as well as technical trainings. **Project Cost (Approx):** Kamalamai Municipality - US\$ 0.75 Million, Bardibas - US\$ 0.69 Million, Surunga - US\$ 0.59 Million; **Position Held:** Social Safeguard Expert / Social Development Expert; **Activities Performed:** Conducted feasibility study, socio-economic assessment facilitate to NGOs especially in raising, upfront cash collection and public awareness campaign; facilitate, coach and training to WSSC to enhance their capacity for the sustainability of the scheme; review and analysis and verification of socio-economic data and prepare socio-economic profile; conduct various orientations, workshops regarding findings and make consensus among stakeholders; establishment of monitoring of social safeguards of project, preparation of resettlement plan and framework, design of Resettlement Action Plan (RAP), identify and document cost for Social Action Plan and RAP implementation in BoQ and preparation of IEE reports, monitoring and supervision of social safeguards activities.

14. Certification:

I, the undersigned, certify to the best of my knowledge and belief that:

- This CV correctly describes my qualifications and experience;
- I am not a current employee of the Executing or the Implementing Agency;
- In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in Form TECB-6 provided team mobilization takes place within the validity of this proposal;
- I was not part of the team who wrote the terms of reference for this consulting services assignment;
- I am not currently debarrred by a multilateral development bank or temporarily suspended by ADB;

I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Reshma

(Signature of authorized representative)

Date: 15/07/2021

Day / Month / Year

Full name of authorized representative

प्रारम्भिक वातावरणीय परिक्षण प्रक्रियामा संलग्न अध्ययन टोली सदस्यको स्वःघोषणा

प्रतिवेदनको मुख्य शिर्षक: बुटवल -गोरूसिंगे १५० कि मी। सबकखण्डको स्तरोन्नति

प्रस्तावकको नाम: आयोजना निर्देशनालय (ए.डी.ओ), सडक विभाग

ठेगाना: विशालनगर, काठमाण्डौ

फोन नं: ०१-४४३७४९२, ४४३७४९३

फ्याक्स नं: ४४३७४८८

ईमेल: pdadb@wlink.com.np

म निम्न घोषणा गर्दछु

- म यस आयोजनाको वातावरणीय प्रभाव मूल्यांकन अध्ययन प्रतिवेदनमा संलग्न छु ।
- मैले यो अध्ययन स्वीकार्य अध्ययन विधि प्रयोग गरि तयार गरेको छु ।
- यस प्रतिवेदनमा समावेश गरिएको विवरणहरू सत्य र सही रहेका छन् ।
- मैले यस प्रतिवेदनमा समावेश भौतिक, जैविक, सामाजिक तथा आर्थिक वातावरणीय विवरण तथा सामग्रीको अध्ययन र जाँच गरेको छु ।
- म संलग्न यस आयोजनाको वातावरणीय अध्ययनसँग सम्बन्धित प्रतिवेदनमा समावेश गर्ने पनि भ्रामक जानकारी वा विवरणको म नैतिक तथा कानूनी जवाफदेहीता वहन गर्दछु ।
- साथै बुद्धी नम्बर १ म उल्लेखित अध्ययन कार्यको सिलसिलामा प्रस्तावित आयोजना क्षेत्रमा मिति डिसेम्बर २०२१ देखि मार्च २०२२ सम्म म स्वयम् उपास्थित भै तथ्यांक संकलन गरेको घोषणा गर्दछु ।
- यो अध्ययन प्रतिवेदनमा बौद्धिक चोरी लगायत कार्यको जिम्मेवारी वहन गर्दछु ।

दस्तावेज:

परामर्शदाता संस्थाको छाप:

विषय विज्ञ सदस्यको नाम, थप: **प्रयाग राज तामाकार**

बन्धुजन्तु विज्ञ

मिति: २०७९/९/२१



Curriculum Vitae



Family name Tamrakar
Given names Prayag Raj
Date of birth 13 November 1956
Nationality Nepali
Marital status Married with 3 children
Address 139/7, Babuchiri Marga, Shantinagar, New Baneshwor, Kathmandu, Nepal
Mobile : +977 - 9851123278
E-mail: prayag_tamrakar@yahoo.co.uk

Expertise

- *Natural forest silviculture and management (Biometrician)*
- *Forest management Research*
- *Community forestry liaison and networking*
- *Project Management, deliver within time and budget*
- *International organisations and ministry experience*
- *Tree Improvement Research and biodiversity*
- *Forest Survey and Inventory designs*

Academic Qualification

Year	Qualification	Institution
2014	PhD Fellow	Tribhuvan University, Nepal - Research – "Improved Management of Community Forests and its Relation to Rural Poverty"
1987-1988	Master of Science (Forest Management)	University of Aberdeen, Aberdeen, UK
1980-1982	Diploma in Forestry	Indian Forest College, Forest Research Institute and Colleges, Dehra Dun, India
1977-1979	Bachelor of Science (Statistics)	1st Chandra Campus, Tribhuvan University, Kathmandu, Nepal

Career Experience

Team Leader,

Feb 2021 – till date

Establishment and measurement of New Permanent Sample Plots in High Mountain and High Himal Region of Nepal

Forest Research and Training Centre (FRTC), Ministry of Forests and Environment, Kathmandu.

Coordinate and lead the project in accomplishing the establishment and measurement of 172 New Permanent Sample Plots (PSP), (cluster sample plots), in high mountain physiographic regions of 21 districts of Nepal, from Rasuwa westward to Darchula, to facilitate the National Forest Monitoring System.

Ensure following of FAO FRA and National Forest Inventory procedure of Nepal. Also strictly follow the data collection, assembly and entering procedure set forward by FRA and the database system prepared by FRTC. Train the crews in measuring PSPs for growth, collect litter/debris and soil samples to assess the soil organic carbon (SOC) and bulk density; Collection and maintenance of plant specimen of unidentified plant species (if any).

Major tasks are Lead, coach, mentor and supervise the entire field crew; Carry out literature review, prepare Inception report and final project completion report of the project; Prepare Training Session Plan and facilitate training to the field crews; Sharing of the project completion report with the client (workshop), Consultation and reporting of the progress with the client (FRTC); Field visits for mentoring of the field crew and Ensure quality of the field work.

Prayag Raj

Wildlife expert,

Oct 2020 – till date

Environmental Impact Assessment of SASFC Highway Improvement Project (SHIP-PPC)

Conduct a baseline study on wild animals, avifauna, aquatic life including herpetofauna. Study the impact on the wildlife within the direct impact and indirect impact zone of the SHIP-PPC. Study the impacts and propose appropriate mitigation and avoiding approach of the project as far as possible. Study the habit, habitat and the movement corridor of the mammals, specially gangetic dolphin and mega animals like Asian elephant and Royal Bengal Tiger in the project area, which is improvement of road and bridges of Kokarbhitta-Laukahi section (170 km), Pathlaiya-Hetauda-Narayanghat Section (106 km) and Butwal-Gorushinga Section (50 km).

Carry out Environmental Impact Assessment (EIA) of the project roads and bridges in accordance with the ADB's Safeguard Policy Statement 2009, Public Communication Policy 2011 as well as Government's acts, regulations and policies. In accordance with Government's notification on Environmental impact Assessment (EIA) and ADB's guidelines, review and confirm the environmental classification of the project, and indicate which sections pass through National Park (NP), Wildlife Sanctuary (WS), other Sanctuary (S), and reserve forest if any.

The Wildlife Expert will coordinate with the IA consultant employed by ADB for wildlife study of project roads specially Pathlaiya-Narayanghat road and incorporate the recommendations from the IA consultant regarding locations, design and numbers of under passes/over passes that will be required to be constructed in the design. The Wildlife Expert shall coordinate with the Environmental Specialist and include his/her findings and recommendations in the EIMP and EIA Reports.

Team Leader, Re-measurement of Permanent Sample Plots in High Mountain Regions of Nepal

Jan-Jul 2020

Forest Research and Training Centre (FRTC), Ministry of Forests and Environment, Govt. of Nepal.

Coordinate and lead the project in accomplishing the re-measurement of 302 Permanent Sample Plots (PSP), cluster sample plots, in high mountain physiographic regions of 21 districts of Nepal, from Rasuwa westward to Darchula, to facilitate the National Forest Monitoring System.

Ensure following of FAO FRA and National Forest Inventory procedure of Nepal. Also strictly follow the data collection, assembly and entering procedure set forward by FRA and the database system prepared by FRTC. Train the crews in measuring PSPs for growth, collect litter/debris and soil samples to assess the soil organic carbon (SOC) and bulk density; Collection and maintenance of plant specimen of unidentified plant species (if any).

Environmental and Social Management Specialist (National)

Oct 2018–Jan 2019

IMC Worldwide Inc., MCC Infrastructure Consulting Service
Infrastructure and Vertical Structures GPA.

Facilitated information sharing with Environment Specialist (International) to identify proper regulatory requirements for the project; identify stakeholders and facilitate sharing information regarding the project; visit project sites; collect, analyse information as required and work closely with the Environment specialist (International) in writing final report.

Potential project sites studied were - Hetauda Pathliya Section of East West Highway that across the core area of Parsa National Parks; Lothar Tandi Section of East West Highway crossing Chitwan National Parks-Buffer Zone and Bhaluwang Lamzhi Section of East West Highway, south of Lamzhi Tiger Bottleneck.

Biodiversity Expert,

July-Oct 2018

FSDI in JV with PEC, DMEC, SILT, in association with TSE and ERMCO (P.) Ltd. for
Railway and Monorail Development Project, Department of Railways, Government of Nepal.

Biodiversity studies for the EIA of "High Speed Electrified Railway Line Between Sukkhad – Gaddachauki", Vechi-Mahakali High Speed Electrified Railway. The project ply over (3.9 km) Sukla Phanta National Parks and advise on free movement of mega animals at two major critical points of movement and habitat of Asian Elephant, Royal Bengal Tiger and other mammals. Following the HMCO regulation, study and recommend the designing of existing bridges at Laljhadi-Mohana and Basanta Wildlife Migratory Corridors and ensure they are wildlife friendly, largely focusing on Asian elephant. Facilitate information sharing with all major stakeholders and forest managers of Kailali and Kanchanpur Districts, State 7, Shared and facilitated involvement of Districts and State Ministry of Forests and Environment.

Facilitated information sharing with all major managers and stakeholders of forests Divisions of Kailali and Kanchan of State 5, including state ministries.

Designed forest inventory, execution and analytical aspects of forests impacted by the alignment proposed. Studying and reporting other aspects of biodiversity of concerned to the EIA study.

Biodiversity Expert,

June 2018 – till date

China Railway SIYUAN Survey and Designing Group Co. Ltd., in association with ERMCO Geotech Pvt. Ltd.

Railway and Monorail Development Project, Department of Railways, Government of Nepal.

Biodiversity studies for the EIA of **"High Speed Electrified Railway Line Between Kohhalpur – Sukkhad"**, Mechi-Mahakali High Speed Electrified Railway. The project ply over Khatta, Karnali and Basanta Wildlife Migratory Corridors. Improve bridges to make it wildlife friendly within the standard as per HMGN guidelines, for a free movement of Asian Elephant, Royal Bengal Tiger and other mammals. Proposed a viaduct (2.5 km) for the Khatta wildlife movement corridor, which is the most dynamic elephant and tiger moving corridor between Bardiya national park, including Banra and Sukla Phanta National Parks and Katerniya Wildlife Sanctuary.

Facilitated information sharing with all major managers and stakeholders of forests of Banke, Bardiya and Panchwanpur Forest Division of Kailali Districts of State 5 and 7, including state ministries. Designed forest inventory, execution and analytical aspects of forests impacted by the alignment proposed. Studying and reporting other aspects of biodiversity of concerned to the EIA study.

Biodiversity Expert,

Oct-Dec 2017

Department of Railways and Monorail, Government of Nepal.

Biodiversity studies for the EIA study of **"Inaruwa – Kakarvitta Section and Itahari-Biratnagar Link"** of **"Mechi-Mahakali High Speed Electrified Railway"**. Facilitated information sharing with all major managers and stakeholders of forests in Sunsar, Morang and Jhapa Districts of State 1, including state ministries.

Studying and suggestions to improve the quality of the proposed alignment to be made wildlife friendly. Suggestions made to ensure that the railway constructed is wildlife friendly and free movement of Asian Elephant, Royal Bengal Tiger and other mammals is incorporated.

Facilitated information sharing with all the Divisional Forest Offices of state 1 including major managers and stakeholders and management committees. Designed forest inventory, execution and analytical aspects of forests impacted by the alignment proposed. Studying and reporting other aspects of biodiversity of concerned to the EIA study.

Team Leader (Biodiversity/ecology Expert)

Oct 2016 – Nov 2017

Nepal India Trade and Transport Project, ESIA of Kathmandu (Nagdhunga) – Naubise – Mugling Section Road and Bridges and ESA for Expansion of Kakarvitta Pathliya Section of Road and Bridges of East Wet Highway.

Environment and Resource Management Consultant (ERMCO) – a consultant for the "World Bank Funded Roads Project, Department of Roads, Government of Nepal.

Biodiversity studies for ESIA study of Kathmandu (Nagdhunga) – Naubise – Mugling Section Road and Bridges and Kakarvitta to Pathliya Sections of Road and Bridges for Expansion of East Wet Highway. This "World Bank Funded Roads Project was managed by the Department of Roads, Government of Nepal.

The project plies over Parsa National Parks and Betna wetland and outskirts of protected area such as Koshi Tappu Wildlife Reserve, Shivapuri National Parks and large blocks of forests of Parsa, Morang and Jhapa districts. Design, execute reporting of the biodiversity parts of the Environmental and Social Impact Assessment (A new format of environmental studies by World Bank) Suggestions to improve the quality of the expansion to be wildlife friendly. Viaduct of about 3 km was suggested towards east adjoining Pathliya. Improve bridges to make it wildlife friendly within the standard as per HMGN guidelines. Insisted in free movement of Asian Elephant, Royal Bengal Tiger and other mammals. Facilitated information sharing with all the Terai divisional Forest Offices of state 1 and 2 including major managers and stakeholders of NPs and WLR, Sagarnath Forest Development Project, Betna Wetland management committee and others. Designed forest inventory, execution and analytical aspects of forests impacted by the High tension lines. Studying and reporting other aspects of biodiversity of concerned to the EIA study.

Later the retrofitting of this study was done to suit the 2020 change by the World Bank.

Forestry and Resources Management / Environment Specialist

July 2012 – May 2013

Kathmandu–Kulekhani–Hetauda Tunnel Highway (KKHTH) Project, Full Bright Consultancy Pvt Ltd, Sinha Mangal, Kathmandu, Nepal

1. As team Leader (Environment), Develop a Environmental Impact assessment (EIA) document for KKHTH, a 60 km long highway. Develop the document remaining within the sector policies, guidelines and manuals set by the Government of Nepal. Supervise and monitor the expert team members in Wildlife, Aquatic fauna/flora, Avifauna and NTFP;
2. Develop a management plan (Land Shape Management/ Area Development) for forestry, tree and Biodiversity, Resource Management, Participatory Planning and Land use management of the "KKHTH Project Area"; Develop Environmental/Landscaping related detailed Feasibility, EIA and Pre Feasibility reports. Also develop Land Shape Management Plan for Forestry, Landscaping, Forestry based Small and Medium Enterprise, Eco-tourism and forest management potentials of the area adjoining VDCs to KKHTH project.

Publications:

2018. A Guideline to Manage Sal Forests under Irregular Shelterwood System. Department of Forest Research and Survey (DFRS), Ministry of Forests and Soil Conservation, Kathmandu. (Press)
- 2018a. Managing Terai Sal (*Shorea robusta*) forests under Coppice With Standard Silvicultural System. Department of Forest Research and Survey (DFRS), Ministry of Forests and Soil Conservation, Kathmandu. (Press)
2015. Need Assessment of data acquisition from the field and reporting at the local sub-national and national level in the forestry sector. Develop National Database of Basic Attributes of all Forest Management Regimes and Develop National REDD+ Information System or Registry – PCPF/REDD/S/QCBS-24, Ministry of Forests and Soil Conservation, REDD Implementation Centre.
2014. Approaches for the Improvement of the Economic Sustainability of Natural Forests Management in the Tropics – Including REDD+ Mechanism. RIIOMBOCS Publishing, Germany.
- 2008a. A Thinning Guidelines for *Pinus patula* and *Pinus roxburghii* Plantations. DFRS, Govt. of Nepal.
2007. Nursery Technology of MOSO Bamboo (*Phyllostachys pubescens*) in Nepal. Technical Report No 1, MDRBP.
2007. Managing tropical sal forests (*Shorea robusta*) of Nepal in short rotations: findings from a 12 year long research. Banko Janakari Volume 11, Number (3), Special Issue, Kathmandu.
- 2006a. Guideline for Inventory of Community Forests (English and Nepali). Ministry of Forests and Soil Conservation, Department of Forests, Community and Private Forest Division, Baharmahal, Kathmandu.
1999. Biomass Tables for Schima – Castanopsis Forests. The eight International workshop on Bio-technology Applications for Reforestation and Biodiversity Conservation" 28-29 November 1999, Kathmandu.
- 1999b. Biomass tables for Katus-Chillaune forest type. Department of Forest Research and Survey, Bahar
- Tamrakar, P.R. & Daniwary, D.J. (1995). Silviculture by rural people in the middle hills of Nepal. A paper presented at XX World IUFRO Conference Tampere, Finland
- Tamrakar, P.R. & Gayfer, J. (1994a). Community Forest Resource Assessment – Forestry Sector Potential and Constraints Study. Kathmandu.
- Gayfer, J., Tamrakar, P., Branney, P. & Young, D. (1994b). Biomass Estimates for Community Forests in the Hills of Nepal. Forestry Sector Potential and Constraints Study, Kathmandu.
1993. Coppice management of Shorea robusta forests in Nepal. Banko Janakari Volume 4 Number (2).
- 1993b. Management systems for natural Schima/Castanopsis forests in the middle hills of Nepal. Banko Janakari 4(1).
- 1993c. Guidelines for establishing natural forest management demonstration plots in Schima/Castanopsis forest. DFRS, Kathmandu.
1992. Management options for degraded sal forest in the Terai. DFRS, Kathmandu.
- 1992a. Community forestry: some indication yield in katus/chillaune forests. Banko Janakari 2 (4).
- 1992b. Management systems for natural Schima/Castanopsis forests in the Middle Hills of Nepal. Banko Janakari, 3(2).

PRAYAG RAJ TAMRAKAR

Name of Expert

Signature

Date

प्रारम्भिक वातावरणीय परिक्षण प्रक्रियामा संलग्न अध्ययन टोली सदस्यको स्वघोषणा

प्रतिवेदनको मुख्य शीर्षक: बुटवल - गोरूसिंगे (५० कि मी) सडकखण्डको स्तरोन्नति

प्रस्तावकको नाम: आयोजना निर्देशनालय (ए.डी.वी), सडक विभाग

ठेगाना: विराटनगर, काठमाण्डौ

फोन नं: ०१-४४३७४९२, ४४३७४९३

फ्याक्स नं: ४४३७४८८

ईमेल: pdadb@wlink.com.np

म निम्न घोषणा गर्दछु

- म यस आयोजनाको वातावरणीय प्रभाव मूल्यांकन अध्ययन प्रतिवेदनमा संलग्न छु ।
- मैले यो अध्ययन स्वीकार्य अध्ययन विधि प्रयोग गरि तयार गरेको छु ।
- यस प्रतिवेदनमा समावेश गरिएको विवरणहरू सत्य र सही रहेका छन् ।
- मैले यस प्रतिवेदनमा समावेश भौतिक, जैविक, सामाजिक तथा आर्थिक वातावरणीय विवरण तथा सामग्रीको अध्ययन र जाँच गरेको छु ।
- म संलग्न यस आयोजनाको वातावरणीय अध्ययनसँग सम्बन्धित प्रतिवेदनमा समावेश कुनै पनि भ्रामक जानकारी वा विवरणको म नैतिक तथा कानूनी जवाफदेहिता वहन गर्दछु ।
- माथि बुझौ नम्बर १ म उल्लेखित अध्ययन कार्यको सिलसिलामा प्रस्तावित आयोजना क्षेत्रमा मिति डिसेम्बर २०२१ देखि मार्च २०२२ सम्म म स्वयम् उपस्थित भै तथ्यांक संकलन गरेको घोषणा गर्दछु ।
- यो अध्ययन प्रतिवेदनमा चौद्विक चोरी लगायत कार्यको जिम्मेवारी वहन गर्दछु ।

दस्ताखत:



परामर्शदाता संस्थाको छाप:

विषय विज्ञ सदस्यको नाम, थर: अनन्त प्रसाद गुरुङ

इन्जिनियरिंग गियोलोजिस्ट

टोली प्रमुख: राजन कुमार श्रेष्ठ

मिति: २०७९/१/२१



CURRICULUM VITAE

Name: Ananta P. GAJUREL
University/Department: Tribhuvan University/Department of Geology
Title: Associate Professor
Campus Address: Tri-Chandra Campus, Ghantaghar, Kathmandu, Nepal
Nationality: Nepalese
Date/Place of Birth: 24 April, 1963/Kathmandu
Marital status: Married
Permanent Home Address: Kathmandu Metropolitan, Ward No. 32, P. O. Box. 8504, Monibhairab Marga, Block N, 104/65, Subidhanagar, Kathmandu, Nepal.
Phone: 977-9841888116
E-mail: ananta.gajurel@trc.tu.edu.np

BACKGROUND

Year	Degree	Institution
2013	Post-Doc in Sediments as Fulbright scholar	Cornell University, New York, USA
2006	Ph.D. in Geology	Joseph Fourier University, Grenoble, France
1998	DIA in Geodynamics of Mountains and Lithosphere	Joseph Fourier University, Grenoble, France
1989	M. Sc. in Geology	Tribhuvan University, Kathmandu, Nepal

ACADEMIC RANKS (year achieved)

Associate Professor: January, 2016.

AREAS OF EXPERTISE (key words)

Sedimentology, Physical Geology, Earthquake, Modern and ancient environment, Paleo-seismology, Engineering Geology, Geology of Nepal Himalaya, Soil Geochemistry, Clay mineralogy (XRD), Stable isotopes (H, C and O), Lake sediments and Glacial environments.

PROFESSIONAL EXPERIENCE

Year	Experience
2016 Jan - Current	Associate Professor, Department of Geology, Tri-Chandra Multiple Campus
2002 July – 2016 Jan	Lecturer, Department of Geology, Tri-Chandra Multiple Campus
2002 July	Permanent at Department of Civil Engineering, Pulchok Campus, IoE, TU
September 1998-2002	Assistant Lecturer (part-time), Department of Geology, Tri-Chandra Multiple Campus
June 1992 – June 1996	Assistant Lecturer (contract), Department of Geology, Tri-Chandra Multiple Campus

HONORS AND AWARDS

- Honor “Nepal Bidhya Bhusan Ka” on 2009.
- Fulbright Fellowship on 2013 for Post-Doctoral research at Cornell University, New York, USA.
- French Government’s Fellowship (CROUS), 2002-2004 for Ph.D. in Geology at Université Joseph Fourier, Grenoble, France.
- French Government’s Fellowship (CROUS), 1996-1998 for DEA in Geodynamics of Mountains and Lithosphere at Université Joseph Fourier, Grenoble, France.

ACADEMIC RESPONSIBILITIES**RESEARCH COLLABORATIONS**

- Principal Investigator of Everest Expedition-2019 from Nepal side for the study of glacial sediments (moraine geology), geomorphology of glacier, glacial lake sediment and moraine dam stability, glaciology and meteorology in Everest region in collaboration with National Geographic, Washington, D.C.
- “Aftershock monitoring of the Gorkha Earthquake 2015”- a collaborative research between Earthquake Research Institute (ERI), University of Tokyo, Japan (Prof. Dr. H. Sato) and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal (Dr. A. P. Gajurel and B.R. Upadhyaya), 2019.
- “Cross-faults and their role in Himalayan Structural Evolution”- a collaborative research between Montana State University, USA (Prof. Mary Hubbard) and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal (Dr. A. P. Gajurel) in the Everest region, Nepal, 2017-2018.

- “Luminescence dating and landscape evolution of the Himalaya, Nepal” – a collaborative research between University of Lausanne, Switzerland (Prof. Georgina King) and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal (Dr. A. P. Gajurel) in Kaligandaki-Gorkha region, Nepal, 2017.
- Geomorphic and climatic controls on riverine carbon export in active landscapes- a collaboration between ETH- Geological Institute, Switzerland (Dr. Maarten Lupker, Prof. Dr. Timothy I. Eglinton and Prof. Dr. Sean D. Willett) and Department of Geology, Tribhuvan University, Nepal (Dr. A. P. Gajurel), 2016-2018.
- Using landslides triggered by the Gorkha Earthquake to improve landslide hazard assessments in Nepal- a collaboration between ETH- Geological Institute, Switzerland (Dr. Maarten Lupker and Dr. Sean Gallen) and Department of Geology, Tribhuvan University, Nepal (Dr. A. P. Gajurel), 2015.
- Principal Investigator for the study of stable isotopes (H and O) characteristics of meteoric and river waters in Nepalese central Himalaya in collaboration with International Atomic Energy Agency, Vienna, Austria, 2014-2018.
- A collaborative research program for the GPS measurement of post-seismic movement after Gorkha Earthquake- April 25 2015 conducted in central Nepal Himalaya between Université Savoie, Chambéry, France, (Dr. Jean-Louis MUGNIER and Prof. Dr. Francois JOUANNE) and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal (Dr. A. P. Gajurel), 2015-2017.
- A collaborative research program of GPS monitoring in Nepal, Nepal Academy of Science and Technology, UNAVCO, USA (Dr. Beth Pratt-Sitaula) and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal (Dr. Ananta P. Gajurel), 2015 up to date.
- A collaborative research program for monitoring stable isotopes of rain and river waters as well as geochemistry of modern river sediments in Nepal between CNRS-CRPG, Nancy, France (Dr. Christian FRANCE-LANORD) and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal (Dr. A. P. Gajurel), 2014-2018.
- A collaborative research program for study of riverbed erosion and active tectonic in Nepal Himalaya as well as Indian Siwalik between CNRS-CRPG, Nancy, France (Dr. Jérôme LAVÉ) and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal (Dr. A. P. Gajurel), 2010-12.

- Evaluating the role of co-seismic landsliding on unsteady erosion and the sedimentary cycle in mountainous landscapes: A case-study of the Mw 7.8 Gorkha Earthquake, Nepal- a collaborative research between ETH- Geological Institute, Switzerland and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal, 2015-17.
- “Aftershock monitoring of the Gorkha Earthquake 2015”- a collaborative research between Nepal Academy of Science and Technology, Earthquake Research Institute (ERI), University of Tokyo, Japan (**Prof. Dr. H. Sato**) and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal (Dr. A. P. Gajurel), 2015-17.
- A collaborative research on Holocene Lake records in the Nepal Himalaya between ISTerre, Université Joseph Fourier, France (**Prof. Dr. Pieter VAN DER BEEK**, Dr. Jérôme Nomade) and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal (Dr. A. P. Gajurel).
- Nepal Earthquake Rapid Response Research- Dr. Sean Gallen, Dr. Maarten Lupker (ETH, Switzerland) and Dr. Ananta P. Gajurel (Tribhuvan University, Nepal) from May 27th to June 14th 2015 in order to gather preliminary data and samples.
- “Influence of climate on landscape and erosion, the Himalaya/Ganga plain case study” - a collaborative research program between CNRS-CRPG, Nancy, France (**Dr. Christian FRANCE-LANORD** and **Dr. Jérôme LAVÉ**) and Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal (Dr. A. P. GAJUREL) funded by French National Research Funding Agency (ANR), France for 5 years (2009-13).
- Comparison of arsenic concentrations in simultaneously-collected groundwater and aquifer particles from Bangladesh, India, Vietnam, and Nepal- a collaborative research program for study of arsenic involving A. van Geen, K. Radloff, Z. Aziz and Z. Cheng (Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY, USA), M.R. Huq and K.M. Ahmed (Department of Geology, University of Dhaka, Bangladesh), B. Weinman and S. Goodbred (Earth and Environmental Sciences, Vanderbilt University, Nashville, TN, USA), H.B. Jung and Y. Zheng (Queens College, City University of New York, Flushing, NY, USA), M. Berg (Eawag, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland), P.T.K. Trung (Hanoi University of Science, Hanoi, Viet Nam), L. Charlet, J. Metral, D. Tisserand and S. Guillot (LGIT-OSUG, University of Grenoble, Grenoble, France), S. Chakraborty (Department of Chemistry, Kanchrapara College, Kanchrapara, West Bengal, India), A. P. Gajurel (Institute of Science and Technology, Tribhuvan University, Kirtipur, Kathmandu, Nepal), 2008.

- Kathmandu paleo-lake sediments study- a collaborative research with Prof. Dr. Tetsuya Sakai, Shimane University, Japan since 1999 up to date.

MOU for Research Collaboration

- Between National Geographic Society, Washington, D.C. and Tribhuvan University, Nepal
- Between Arizona State University, USA and Tribhuvan University, Nepal
- Between University of Arizona, USA and Tribhuvan University, Nepal
- Between Montana State University, USA and Tribhuvan University, Nepal
- Between the Department of Geology, Tri-Chandra Campus and CRPG-CNRS, Nancy, France
- Between the Department of Geology, Tri-Chandra Campus and IPGP, Paris, France.
- Between the Department of Geology, Tri-Chandra Campus and ETH- Geological Institute, Switzerland.
- Between the Department of Geology, Tri-Chandra Campus and Earthquake Research Institute, The University of Tokyo, Japan

Conference Convener from Nepal side

- “EGU Galileo conference: Perturbations of earth surface dynamics caused by extreme events” jointly organized by Nepal Geological Society (NGS) and European Geological Union (EGU) in Kathmandu and Bahrabise, Nepal from 13 to 19 October 2019

Geological Excursion

- Geological Information for Excursion from Muktinath to Lumbini, Nepal. Organizer- **Ananta P. Gajurel**, Christian France-Lanord, Pascale Huyghe and Koki Yoshida. Bengal Pan Post Cruise Meeting, Nepal, 2 – 10 May 2017.
- Field excursion on “Geologic Transect Across The Kathmandu Section, Nepal Himalaya: Ancient to Active Tectonics” conducted by B.N. Upreti, and A.P. Gajurel along Kathmandu-Hetauda-Amlekhganj-Chitwan-Trisuli-Rasuwa Garhi-Ranipauwa-Balaju road sections in 2019, 36th International Geological Congress, Delhi, India and NASI, Nepal.

Geological Visit

- Leading 5 students of M.Sc. Engineering Geology from Tri-Chandra M. Campus to Shimane University, Matsue, Japan for 8 days geological exchange visit program for study of natural hazards under SAKURA program, Japan in 2018.

Invitation of Fulbright Specialist

- Invited **Prof. Dr. Mary Hubbard**, Montana State University as a Fulbright Specialist at the Department of Geology, Tri-Chandra Campus, Tribhuvan University, Nepal by **A.P. Gajurel** as counterpart to involve in teaching and research activity at the Development of Geology, Tri-Chandra M. Campus for 6 weeks.

TEACHING AND ADVISING RESPONSIBILITIES

Courses Taught

- Geology of the Himalaya and Igneous Petrology to M.Sc. Engineering Geology, I Semester
- Physical Geology, Sedimentology and Sedimentary Petrology for undergraduate level

Undergraduate and Graduate Students Mentored in the field of Nepal Himalaya

- Helauda-Bhimphedi Field teaching, central Nepal for one week to M.Sc. Engineering Geology
- Malekhu Field teaching, central Nepal for 2 weeks each year to B.Sc. III year in Geology
- Tansen-Burwal Field teaching, western Nepal for 4 weeks each year to B.Sc. IV year in Geology

Professionals Supervision (list names)

- Roshan Raj Bhattarai (M.Sc. in Geology, 2013)
- Balaram Upadhyaya (M.Sc. in Geology, 2014)
- Rabina Hada (M.Sc. in Engineering Geology, 2018)
- Sharmila Neupane (M.Sc. in Engineering Geology, 2018)
- Anil Ghimire (M.Sc. in Engineering Geology, 2019)
- Bal Krishna Shrestha (M.Sc. in Engineering Geology, 2019)
- Bhuwan Awasthi (M.Sc. in Engineering Geology, 2019)
- Lal Bahadur Thapa (M.Sc. in Engineering Geology, 2019)
- Samir Dhungel (M.Sc. in Engineering Geology, 2019)
- Sanjeet Maka (M.Sc. in Engineering Geology, 2019)
- Junu Upreti (M.Sc. in Engineering Geology, 2020 up to date)
- Lal Bahadur Yadav (M.Sc. in Engineering Geology, 2020 up to date)
- Bibek Giri (part of PhD supervision jointly with Prof. Dr. Mary Hubbard, Montana State University, Montana, USA, 2019 up to date)

Relevant Teaching in Field, Advising Activities and facilitating in Research

PhD Students:

- Research on raulon emanation of heterogeneous basin deposits in Kathmandu Valley and MCT area of Nepal- PhD work of Frédéric Girault and supervised by Prof. Dr. Frédéric Perrier, IPGP, Paris, France advised and facilitated in field by Dr. A. P. Gajurel, the Department of Geology, Tribhuvan University 2009-10.
- An integrated metamorphic and geochronological study of the Kathmandu Klippe- PhD work of Brendan J. Dyck and supervised by Prof. Dr. Mike Searle, University of Oxford, Department of Earth Sciences, advised and facilitated in field by Dr. A. P. Gajurel, Department of Geology, Tribhuvan University from May 1st – May 30th 2014.
- The effects of pore waters, erosion, and abrasion on mineral age and dating river sands from Himalayan source areas using (U-Th)/He thermochronology- PhD works of Mr. Mohammad Subagard Sohi and Mr. Ruben Rosenkranz within the Marie-Curie-Project “iTECC (Investigating Tectonism-Erosion-Climate Couplings)” frame, supervised by Prof. Dr. Cornelia Spiegel, Universität Bremen, Germany, advised and facilitated in field by the Department of Geology, Tribhuvan University (Dr. A. P. Gajurel) from May-June 2014.
- Tectonic vs climatic controls on the Quaternary: recent erosion and exhumation rates- PhD works of Mr. Zakaria Ghazoui within the Marie-Curie-Project “iTECC (Investigating Tectonism-Erosion-Climate Couplings)” frame, supervised by Prof. Dr. Pieter VAN DER BEEK, ISTerre, Université Joseph Fourier, France, advised and facilitated in field by the Department of Geology, Tribhuvan University (Dr. A. P. Gajurel) from September 22 –November 21 2014.

Undergraduate and Graduate Students:

- **Ananta P. Gajurel, Academic Advisor of “SIT NEPAL: GEOSCIENCE IN THE HIMALAYA”** program conducted by the World Learning INC., SIT Study Abroad, SIT Graduate Institute, USA (Dr. Beth Pratt-Sitaula, **Academic Director**) in collaboration with Department of Geology, Tri-Chandra Campus from June 2018 to August 2018.
- **Ananta P. Gajurel, Academic Advisor of “SIT NEPAL: GEOSCIENCE IN THE HIMALAYA”** program conducted by the World Learning INC., SIT Study Abroad, SIT Graduate Institute, USA (Dr. Beth Pratt-Sitaula, **Academic Director**) in collaboration with Department of Geology, Tri-Chandra Campus from 18 June 2017 to 5 August 2017 teaching 13 USA and 5 Nepalese students in Kaligandaki-Muktimath section, Nepal.
- **Ananta P. Gajurel, Academic Advisor of “SIT NEPAL: GEOSCIENCE IN THE HIMALAYA”** program conducted by the World Learning INC., SIT Study Abroad, SIT Graduate

Institute, USA (Dr. Beth Pratt-Sitaula, **Academic Director**) in collaboration with Department of Geology, Tri-Chandra Campus from 13 June 2016 to 30 July 2016 teaching 15 USA and 6 Nepalese students in Kaligandaki-Muktinath section, Nepal.

- **Co-instructor Ananta P. Gajurel** of “3rd Himalayan Geological Excursion-2015 (Kathmandu-Pokhara-Muktinath-Lumbini-Kathmandu)” program jointly organized by the Department of Geology, Tri-Chandra Campus and the Gondwana Research Institute, Japan (**Director Prof. Dr. M. Yoshida**) for Japanese and Nepalese students for field training during 10 days, **Co-instructor Ananta P. Gajurel**.
- **Co-instructor Ananta P. Gajurel** of “SII NEPAL: GEOSCIENCE IN THE HIMALAYA” conducted by the World Learning INC., SII Study Abroad, SII Graduate Institute, USA (Dr. Beth Pratt-Sitaula, **Academic Director**) in collaboration with Department of Geology, Tri-Chandra Campus from 1 June 2014 to 10 August 2014 teaching 14 USA and 6 Nepalese students in Kaligandaki-Muktinath section, Nepal, **Co-instructor Ananta P. Gajurel**.
- **Co-instructor Ananta P. Gajurel** of “3rd Himalayan Geological Excursion-2014 (Kathmandu-Pokhara-Muktinath-Lumbini-Kathmandu)” jointly organized by the Department of Geology, Tri-Chandra Campus and the Gondwana Research Institute, Japan (**Director Prof. Dr. M. Yoshida**) for Japanese and Nepalese students for field training during 10 days.

COMMITTEE ASSIGNMENTS:

- Member of Management Committee of Tri-Chandra Multiple Campus, Tribhuvan University 2018 up to date
- Member of Executive Committee of Tri-Chandra Multiple Campus, Tribhuvan University 2018 up to date
- Member of the Standing Subject Committee of Geology, Tribhuvan University, 2008 – 2011
- Member of the Standing Subject Committee of Geology, Tribhuvan University, 2020 up to date
- Member of the Subject Committee of Engineering Geology, Tribhuvan University from 2020 up to date

Departmental Responsibility:

- Field management and field in-charge for geological fieldworks of undergraduate level
- **Head**, Department of Geology since 16 January 2018 up to date
- **Member**, Equipment Purchasing Committee, Tri-Chandra M. Campus, Tribhuvan University 2019-2020.
- **In-Charge**, M.Sc. Engineering Geological Laboratory, Tri-Chandra M. Campus 2017-2018

Geological fieldwork carried out in Nepal Himalaya

- Most of the part of Nepal Himalaya including snow covered mountains and high mountains (Lesser Himalaya and Higher Himalaya), Midlands and Mahabharat Range (Lesser Himalaya) and Chure Range (Siwalik) as well as Terai plain (Gangetic plain)

Involvement with foreign institute and organization for geological research in Nepal Himalaya and Terai plain (Gangetic plain)

- Montana State University, USA, University of Maine, USA and National Geographic Society, Science Division, USA
- CRPG-CNRS, ICGP, Université de Savoie Mont Blanc, Université de Grenoble Alpes, France.
- The University of Tokyo, Shimane University, Kyoto University, and Hokkaido University, Japan.
- Cornell University, and Columbia University, USA.
- Indian Institute of Technology, Kanpur and National Geophysical Research Institute, India
- University of Lausanne, and ETH, Zurich, Switzerland
- State Key Laboratory of Environmental Geochemistry, Chinese Academy of Science, Guiyang, Guizhou province, southwest China

Research Invitation in foreign countries:

- Visiting Scientist at the University of Maine, USA (Prof. Paul Andrew Mayewski) and Montana State University, USA, (Prof. Mary Hubbard) for one month in September-October, 2019.
- Visiting Researcher: For two weeks (2018) at State Key Laboratory of Environmental Geochemistry, Institute of Geochemistry, Chinese Academy of Sciences, Guiyang, Guizhou Province, China. Name of Supervisor: Prof. Dr. Zhao Zhi-Qi
- Invited Researcher: For one week (2017) at Earthquake Research Institute, The University of Tokyo, Japan, to study seismology of Gorkha Earthquake, Name of Supervisor: Prof. Dr. Hiroshi SATO
- Visiting Scientist: For three months (January-March, 2011) in CRPG-CNRS, Nancy, France, for laboratory analysis and presentation of work. Name of Supervisor: Dr. Christian FRANCK-LANORD
- Invited Researcher: For two weeks (26 February 2010 – 10 March 2010) in Shimane University, Matsue, Japan, to study tsunami deposit and liquefaction structures, Name of Supervisor: Dr. Tetsuya SAKAI

- Invited Lecturer: For three months (June-August, 2008) in LGCA/Université Joseph Fourier, Grenoble, France, for scientific paper writing on palaeo-seismology of Kathmandu valley, Name of Supervisor: Dr. Pascale HUYGHE/ Dr. Jean-Louis MUGNIER

OTHER CURRENT PROFESSIONAL ACTIVITIES

MEMBER of PROFESSIONAL SOCIETIES

- Life member, Nepal Geological Society, Nepal
- Life Member, Maison du Népal, Gap, France
- Executive Member, Tulbright Alumni Association of Nepal 2017-2019
- Member, Stratigraphic Association of Nepal (SAN)
- Member, Nepal University Teacher's Association

EDITORIAL BOARDS

- Editor: Journal of Nepal Geological Society, 2008 – 2011
- Editor: Bulletin of Central Department of Geology from 2018 up to date.

OTHER CURRENT PROFESSIONAL CONTRIBUTIONS

CONFERENCES/WORKSHOPS/IN-SERVICE PARTICIPATION

Presenting Authors **name in bold**

1. Sedimentology of Glacial Lake Core from Gokyo Valley, Everest Region, Nepal. **Ananta P. Gajurel**, Mary Hubbard, Bibek Giri, Sanjit Malla, Patrick A. Rafter, Aaron E. Putnam, Aurora C. Elmore, Sandra Elvin, Alex Trail, and Paul Andrew Mayewski, American Geophysical Union Fall Meeting, 2020, USA (iPoster).
2. Assessing Environmental Variability in High Mountain Region from Sediment Core of Gokyo Lake, Eastern Nepal. **Ananta P. Gajurel**, Mary Hubbard, Bibek Giri, Sanjit Malla, Balakrishna Shrestha, Anil Ghimire, Aaron E. Putnam, and Paul Andrew Mayewski, American Geophysical Union Fall Meeting 2019, San Francisco, USA (Poster).
3. Evaluation of stable isotopic composition of Nepalese rivers before and after the Mw 7.8 Gorkha earthquake. **A. P. Gajurel**, C. F. France-Lanord, M. Lupker, J. Lavé, T. Rigaudier, 33rd Himalaya-Karakorum-Tibet Workshop, 10-12 September 2018, Lausanne, Switzerland (Oral).
4. Palaeoseismic archive in the Kathmandu Basin sediments: an assessment of seismic hazard in the

- Central Himalaya. **Ananta P. Gajurel** and Tetsuya Sakai, The 11 Asian Regional Conference of IAGG, Kathmandu, 28-30 Nov, 2017 (Oral).
5. Ongoing research on sediment and geochemical cycles following the Gorkha earthquake. **Ananta P. Gajurel**, Maarten Lupker, Sean F. Gullen, Katherine Schide, Lena Märki, 6th National Geological Congress, Kathmandu, 2016 (Oral).
 6. Records of natural hazard in the Kathmandu-Valley-fill succession. Tetsuya Sakai and **Ananta Prasad Gajurel**, 6th National Geological Congress, Kathmandu, 2016 (Oral).
 7. IHK 2016 Stable isotope composition of Major Himalayan Rivers, Nepal Himalaya. **A. P. Gajurel**, C. France-Lanord, J. Lavé and T. Rigandier, Aussois, France, 9-12 May 2016 (Oral).
 8. Study of Stable Isotope (H and O) Characteristics of river Waters in Nepalese Himalaya- **A. P. Gajurel**, C. France-Lanord and J. Lavé, First Research Coordination Meeting of the CRP on "Application and development of isotope techniques to evaluate human impacts on water balance and nutrient dynamics of large river basins" 11 – 15 April 2016, Vienna International Centre (Oral).
 9. Coseismic Landslide Hazards and Geomorphic Consequences of the MW 7.8 Gorkha Earthquake, Nepal- **Sean Francis GALLAN**, Marin K. CLARK, Nathan NIEMI, Maarten LUPKER, Ananta Prasad GAJUREL, A. Joshua WEST, Katherine LOWE and Kevin ROBACK, 2015 GSA Annual Meeting in Baltimore, Maryland, USA (1-4 November 2015) (Oral).
 10. Oxygen isotope and sedimentary environment of Kathmandu Valley- **A. P. Gajurel**, DAAD-Project "Development of curricula on environmental engineering in Nepal and cross-linking of a distance learning" "Workshop: Summary and Outlook" 16-23 November 2014, Chulalongkorn University, Bangkok, Thailand (Oral).
 11. Study of Isotope Characteristics of River Waters in Nepalese Himalaya- **A. P. Gajurel**, C. France-Lanord and J. Lavé, First Research Coordination Meeting of the CRP on "Application and development of isotope techniques to evaluate human impacts on water balance and nutrient dynamics of large river basins" 20 – 24 October 2014, Vienna International Centre (Oral).
 12. Sediment transfer and deposition throughout the Himalayan continental and oceanic basin : constraint from geochemical composition of river Sediments- **Christian France-Lanord**, Ananta Gajurel, Valier Galy, Jérôme Lavé, Maarten Lupker, and Guillaume Morin, Geophysical

Research Abstracts, Vol. 15, ICGU2013-11545, 2013 (Oral).

13. Hillslope erosion and landslide dynamics in the central Himalayas- **F. Gallet, J. Lavé, G. Morin, C. France-Lanord, and A.P. Gajurel**, Geophysical Research Abstracts Vol. 14, EGU2012-10787, 2012 (Oral).
14. Stable isotope composition of precipitation across central Nepal Himalaya- **A. P. Gajurel, C. France-Lanord, and J. Lavé**, Himalaya-Karakoram-Tibet International Workshop, Kathmandu, November 2012, Jour. Nep. Geol. Soc., v. 45 (Special Issue), pp. 9 (Oral).
15. Human induced riverbank hazard in Kathmandu valley, Nepal- **A. P. Gajurel, D. Pathak, G.B. Shrestha and S.K. Dwivedi**, ICGP 582 Annual Meeting and Conference on Tropical rivers: Hydro-physical processes, impacts, hazards and management, January 5-7, 2012, Indian Institute of Technology, Kanpur, India, pp. 33 (Oral).
16. Discovery of tsunami deposit in the paleo-Kathmandu Lake, central Nepal Himalaya, **A. P. Gajurel, T. Sakai, H. Tabata, B.N. Upreti**, Sixth Nepal Geological Congress on Geology, Natural Resources, Infrastructures, Climate Change and Natural Disasters, 15 – 17 November 2010, Journal of Nepal Geological Society, Vol. 43 (Sp. Issue) (Oral).
17. Late Pleistocene delta study in intermontane Kathmandu Basin, Nepal: Climatic implication- **A. P. Gajurel, T. Sakai, C. France-Lanord, P. Huyghe, J. L. Mugnier and B.N. Upreti**, International Conference on DELTAS: Deltaic Gateways- Linking Source to Sink, January 6-13, 2008, Bangladesh, pp.14 (Oral).
18. Dry climatic evidence in central Himalaya around 40 ka from lacustrine sediments of Kathmandu Basin, Nepal- **A. P. Gajurel, C. France-Lanord, P. Huyghe, J.L. Mugnier, T. Sakai, H. Sakai, B.N. Upreti**, Fifth Nepal Geological Congress on Geology, Environment, and Natural Hazards Mitigation: Key to National Development 26-27 November 2007, Journal of Nepal Geological Society, 2007, Vol. 36 (Sp. Issue), p.4 (Oral).
19. Compositions isotopiques (carbone et oxygène) de Gastéropodes et bivalves des Siwaliks: implications paléo-environnementales sur le système himalayen depuis le Miocène, 2004, **A. P. Gajurel, C. France-Lanord and P. Huyghe**, TectoClim, UMR USTL-CNRS, Lille, France, pp. 25 (Oral).
20. Soft-deformation structures in the Kathmandu Basin- **A. P. Gajurel, B.N. Upreti, P. Huyghe, and**

- J.L. Mugnier, *Journal of Asian Earth Sciences*, vol. 19(3A), pp. 20, HKT Workshop-Austria (Oral).
21. Evidence of a climate change in Kathmandu Basin from oxygen isotope records- **A. P. Gajurel**, P. Huyghe, C. France-Lanord, J.L. Mugnier and B.N. Upreti, workshop on Himalayan Uplift and Paleoclimatic Changes in Central Nepal, November 2000, Kathmandu, Nepal. *News Bulletin of Nepal Geological Society*, v. 18, pp. 69 (Oral).
 22. Oxygen isotope records in the gastropod shells from the Kathmandu Basin sediments, Nepal and their environmental significance- **A. P. Gajurel**, C. France-Lanord, D. Gurung, P. Huyghe, J.L. Mugnier, H. Sakai, B.N. Upreti, Published in the volume of 17th HKT workshop, April 2002, Sikkim, India, pp. 15 (Oral).
 23. Palaeoseismological investigations in the Kathmandu Valley, Nepal: soft sediment deformation and liquefaction structures- **A. P. Gajurel**, P. Huyghe, B.S. Sukhija, J.L. Mugnier, D.V. Reddy, and B.N. Upreti, volume of Symposium on Seismology, Earthquake Hazard Assessment and Risk Management 24-26 November, 2002 Kathmandu, Nepal, pp. 132-133 (Oral).
 24. Engineering geological studies at the Tsho Rolpa Glacier Lake and assessment of GLOF hazard- **A. P. Gajurel**, S.R. Pant, B. Rana, A.B. Shrestha, R. Aryal, K.P. Budhathoki, A.P. Pokharel and R.K. Shrestha, 1999, *Jour. Nepal Geol. Soc.* vol. 20, pp. 236-237 (Oral).
 25. Paleoseismicity in the Siwaliks: occurrence of major seismic events in the Himalayas of west Nepal- **G.H. Mascle**, H. Chalandon, A.P. Gajurel, P. Letermy and J.L. Mugnier, abstract paper 12th Himalayan-Karakorum-Tibet Workshop, Rome, Italy, 1997 (Oral).
 26. CO₂ and Helium in mineral springs of Nepal and Mustang: a study of volatile release processes during the Himalayan tectonics- **B. Marty**, C. France-Lanord, A.P. Gajurel, R. Murali, F. Vuataz and P. Le Fort, abstract vol. of 11th Himalaya-Karakorum-Tiber Workshop, USA, 1996 (Oral).
 27. Silicate and carbonate weathering in the Himalaya: Chemistry, C, and Sr isotopic composition of the river system of central Nepal- **C. France-Lanord**, L.A. Derry, P. Le Fort, J.L. Mugnier, A.P. Gajurel, Goldschmidt Conference, Pennstate, 1995 (Oral).
 28. Major ion chemistry and H, O, C, and Sr isotope compositions in river water from Mustang and central Nepal: weathering in the Himalaya- **C. France-Lanord**, G. Olivier, P. Le Fort and A.P. Gajurel, *Jour. Nepal Geol. Soc.* vol. 10 (special issue), 1994 (Oral).

29. Participated in the 12th international Himalayan-Karakoram-Tibet workshop, Rome, Italy, 1997.
30. Participated in the 20th international Himalayan-Karakoram-Tibet workshop, Aussois, France, France, 2005.

INVITED PRESENTATION

1. "Modern and paleo-environmental condition in Ganga plain and Siwalik from stable isotopic characters"- A. P. Gajurel, Shimane University, Japan. (August 2010).

Book Publication and Contribution

1. Greater Himalayan Cross-section: The Everest Area, Eastern Nepal by Mary Hubbard and **Ananta P. Gajurel**, published by International Geological Congress, Delhi, India, 2019.
2. Geologic Transect Across the Kathmandu Section, Nepal Himalaya: Ancient to Active Tectonics by B.N. Upreti, A. Webb, **A.P. Gajurel** and B.R. Upadhyaya, published by International Geological Congress, Delhi, India, 2019.
3. Geomorphological and geological observation of the World Heritage sites in Kathmandu Valley by **A.P. Gajurel** and M.R. Paudel, published by Nepal Geological Society, P. 29, November 2017
4. Guidebook for excursion on Geology of Kathmandu Valley- by Harutaka Sakai, Tetsuya Sakai, **Ananta P. Gajurel** & Rie Fujii, published by Nepal Geological Society, P. 45, November 2012
5. The Himalaya-Tibet Collision, published by Nepal Geological Society and Societe Geologique de France, authored by Georges Mascle, Arnaud Pecher, Stephane Guillot, Santa Mun Rai and **Ananta P. Gajurel**, August 2012
6. Guide book for Himalayan trekkers, Series No. 1- Geology and Natural Hazards along the Kaligandaki Valley, Nepal- published by Dept. Geology/JICA, Nepal, B.N. authored by Upreti, M. Yoshida, T.N. Bhattarai, S.M. Rai, P.D. Ulak, **A.P. Gajurel**, R.K. Dahal and S. Dhakal. P. 165 (2005).
7. Guidebook for Himalayan Trekkers, Series No. 2, Published by Department of Geology, Tri-Chandra Campus/JICA, Nepal, Authored by M. Yoshida, Upreti, S.M. Rai, T.N. Bhattarai, P.D. Ulak, L. N Sharma, R.K. Dahal, **A.P. Gajurel**, S. Dhakal, M. P. Koirala and B. R. Adhikari, P. 192 (2011).

RESOURCE FOR MEDIA

National Daily newspaper

Article about Gorkha Earthquake “Bhukampa ra Sabhadani” in nepali language published in Kantipur newspaper on May 1 2015 <http://kantipur.ekantipur.com/news/2015-05-01/408233.html>

Annapurna Post related to Gorkha Earthquake at

Annapurna Post related to Gorkha Earthquake at

<http://annapurnapost.com/News.aspx/story/42575>

Subsidence in Kathmandu

Himal Kabar Patrika <http://himalkhabar.com/news/13990>

Himal Khabar Patrika <http://himalkhabar.com/news/13814>

National Radio

Interview as well as direct on-air interaction with general public from the studio of Radio Nepal about Gorkha Earthquake- 25 April 2015

Radio Nepal 2019 August 6-7?

Television

Interview कसरी बढ्छ, हिमालको उचाई ? यस्ता छन् रहस्य ! Janata Television 20 December 2020 at https://www.youtube.com/watch?v=cli_vAS6lJHh

Interview about Gorkha Earthquake (25 April 2015) Sugarmatha Television published on May 5, 2015 at https://www.youtube.com/watch?v=T9yCqY9F_ig

Interview about Gorkha Earthquake (25 April 2015) Sugarmatha Television published on May 13, 2015 at <https://www.youtube.com/watch?v=xAD0kv3TNoI>

2019 <https://www.youtube.com/watch?v=5UUD990Kz2U&feature=share>

2019 <https://youtu.be/68HD-34PSrw>

PUBLICATIONS

Peer-reviewed International Journal Articles

1. Climatic and Tectonic Significance of Tahoche Lake, Khumbu Region, Nepal- **Ananta P. Gajurel**, Mary S. Hubbard, Bibek Giri, Aurora C. Elmore, Sanjeet Malla, Patrick A. Radler, Aaron E. Putnam, Sandra Elvin, Alex Tail, and Paul A. Mayewski, iScience, accepted 2021.
2. Pushing Climate Change Science to the Roof of the World. Paul Andrew Mayewski, **Ananta P. Gajurel**, Sandra Elvin, Pete Athans, Tyler Dinley, Panuru Sherpa, Aurora C. Elmore, Jiban

- Ghimire, L., Baker Perry, Tom Matthews, Conrad Anker, Samuel W. Guillard, Mary S. Hubbard, Aaron E. Putnam, Tracie A. Seimon, Anton Seimon, Suresh Ghimire, and Alexander M. Tait, *One Earth* 3, November 20, 2020 <https://doi.org/10.1016/j.oneear.2020.10.021>
3. Deposition of PFAS 'forever chemicals' on Mt. Everest- K.R. Miner, H. Clifford, T. Tarascio, M. Potocki, G. Solomon, M. Ritari, I.E. Napper, **A.P. Gajurel**, P.A. Mayewski, 2020, <https://doi.org/10.1016/j.scitotenv.2020.144421>
4. Precipitation Characteristics and Moisture Source Regions on Mt. Everest in the Khumbu, Nepal. L. Baker Perry, Tom Matthews, Heather Guy, ..., Anton Seimon, **Ananta Gajurel**, Paul A. Mayewski, 2020, *One Earth* 3, 594–607.
5. An Overview of Physical Risks in the Mt. Everest Region. Kimberley R. Miner,Paul A. Mayewski, Saraju K. Baidya, Kenneth Broad, Heather Clifford, Aurora Elmore, **Ananta P. Gajurel**, Bibek Giri, Sam Guillard,9 Mary Hubbard,2 Corey Jaskolski, Heather Koldewey, Wei Li, Tom Matthews, Imogen Napper, L. Baker Perry, Mariusz Potocki, John C. Priscu, Alex Tait,9 Richard Thompson, and Subash Tuladhar, <https://doi.org/10.1016/j.oneear.2020.10.008>
6. Into Thick(er) Air? Oxygen Availability at Humans' Physiological Frontier on Mount Everest. Tom Matthews, L. Baker Perry, Timothy P. Lane, ..., **Ananta Gajurel**, Mariusz Potocki, Paul A. Mayewski. *iScience* (2020), <https://doi.org/10.1016/j.isci.2020.101718>
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18. Seismites in the Pleistocene succession and recurrence period of large earthquakes in the Kathmandu Valley, Nepal- T. Sakai, **A. P. Gajurel** and H. Tabata, *Geoenvironmental Disasters* 2015, DOI 10.1186/s40677-015-0033-6 (2015)
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23. Predominant floodplain over mountain weathering of Himalayan sediments (Ganga basin)- Maarten Lupker, Christian France-Lanord, Valier Galy, Jerome Lave, Jerome Gailhardet, **Ananta Prasad Gajurel**, Caroline Guilmette, Mustafizur Rahman, Sunil Kumar Singh, Rajiv Sinha, *Geochimica et Cosmochimica Acta*, vol. 84, pp. 410-432 (2012).
24. Seismites in the Kathmandu basin and seismic hazard in central Himalaya, J.-L. Mugnier, P. Huyghe, **A.P. Gajurel**, B.N. Upreti, *Tectonophysics*, vol. 509 (1-2), pp. 33-49, (2011)
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27. Revision of stratigraphic classification in the northern part of the Kathmandu Valley, Nepal- T. Sakai, **A.P. Gajurel**, H. Tabata, N. Ovi, T. Takagawa and B.N. Upreti, *Journal of Nepal Geological Society*, vol. 37, pp. 25-44 (2008).
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29. Field Excursion Guidebook Series on Geology and Natural Hazards in Nepal Himalaya- M. Yoshida, B.N. Upreti, S.M. Rai, T.N. Bhartarai, P.D. Ullak, **A.P. Gajurel**, R.K. Dahal, S. Dhakal and M.P. Koirala, *Proceedings of the International Conference on Management of Landslide Hazard in the Asia-Pacific Region* (Satellite symposium of the First World Landslide Forum, Tokyo, Japan, pp. 335-344 (2008).
30. C and O isotope compositions of modern fresh-water mollusc shells and river waters from Himalaya and Ganga plain- **A.P. Gajurel**, C. France-Lanord, P. Huyghe, C. Guilmette, & D. Gurung, *Chem. Geology*, vol. 233, pp. 156-183 (2006).
31. Discovery of sediment indicating rapid lake-level fall in the late Pleistocene Gokarna Formation, Kathmandu Valley, Nepal: implication for terrace formation- T. Sakai, T. Takagawa, **A.P. Gajurel**, H. Tabata, N. Ovi & B.N. Upreti, *The Quaternary Research*, vol. 42(2), pp. 99-112 (2006).
32. Tectonic and climatic control of the changes in the sedimentary record of the Kamali River section (Siwaliks of Western Nepal)- P. Huyghe, J.L. Mugnier, **A.P. Gajurel**, and B. Delcaillau, *The Island Arc*, vol. 14, pp. 311-327 (2005).
33. Frontal and piggy-back seismic ruptures in the external thrust belt of western Nepal- J.L. Mugnier, P. Huyghe, **A.P. Gajurel** and D. Becel, *Journal of Asian Earth Science*, vol. 25, pp. 707-717 (2005).

34. Lithostratigraphy of Hetauda-Amlekhganj Area, Siwalik, central Nepal- R. B. Sah, P. D. Ulak, **A. P. Gajurel** and L. N. Rimal. Jour. Himalayan Geology. India, vol. 15, pp. 37-48 (1991).

Research articles in national journals:

1. Recharge Source Identification of Flowing Artesian Wells on Eastern Koshi Bank, Nepal- Sharmila Neupane, **Ananta Prasad Gajurel**, Nir Shakya, Maarten Lupker and Rabina Hada, Bulletin of Nepal Hydrogeological Association, Vol. 5, September 2020, pp. 119-123
2. Assessment on connection between shallow and deep aquifers using isotope analysis of surface water and groundwater in Sunsari and Morang Districts- Sharmila Neupane, **Ananta Prasad Gajurel**, Nir Shakya, Maarten Lupker and Rabina Hada, Journal of Nepal Geological Society, 2019, vol. 59, pp. 73–78.
3. Assessment on connection between shallow and deep aquifers of Siraha and Saptari Districts using isotope analysis- Rabina Hada, Maarten Lupker, **Ananta Prasad Gajurel** and Nir Shakya, Journal of Nepal Geological Society, 2019, vol. 59, pp. 65–72.
4. Environmental evolution of Neogene Churia Foreland Basin: a study of stable isotopes of mollusk shells, **Ananta P. Gajurel**, Academic View, Journal of TUTA Tri-Chandra Campus Unit. V. 4. (2014).
5. Sedimentary facies at southern marginal part: an indicator of depositional environmental fluctuation in Kathmandu basin, Nepal, **Ananta P. Gajurel**, Jour. Nep. Geol. Soc. V. 43 (Sp Issue), pp. 333-351 (2011)
6. Climate Change Impacts on Hazard in the Eastern Himalayas; Climate change impact and vulnerability in the Eastern Himalayas- D. Pathak, **A.P. Gajurel** and P.K. Mool. - Technical report 5, Kathmandu: ICIMOD, 17P (2010).
7. Small-amplitude lake-level fluctuations recorded in aggrading deltaic deposits of the Upper Pleistocene Thimi and Gokarna Formations, Kathmandu Valley, Nepal- T. Sakai, **A.P. Gajurel**, H. Tabata, & B.N. Upreti, Jour. Nepal Geol. Soc., vol. 23 (sp. Issue), p. 43-51 (2001).
8. Palaeoseismicity in the Koteswar area of the Kathmandu Valley, Nepal, inferred from the soil sediment deformational structures- **A.P. Gajurel**, P. Huyghe, B.N. Upreti & J.L. Mugnier, Jour. Nepal Geol. Soc, vol. 22, p. 547-556 (2000).
9. Seismites in the Kathmandu basin, Nepal- **A. P. Gajurel**, P. Huyghe, C. Franco-Lanord, J. L.

- Mugnier, B. N. Upreti and P. Le Fort, jour. Nepal Geol. Soc. vol. 18, pp.125-134 (1998).
10. Paleoseismicity in the Siwaliks: occurrence of major seismic events in the Himalayas of west Nepal- G. H. Mascle, T. Chalarou, **A. P. Gajurel**, P. Leturmy and J. L. Mugnier, jour. Nepal Geol. Soc. vol. 18, pp.117-130 (1998).
11. Geology and structures of the Siwaliks and Lesser Himalaya in Surai Khola-Bardanda Area mid-western Nepal- M. R. Dhital, **A. P. Gajurel**, D. Pathak, J. P. Paudel and K. Kizaki, bull. Dept. Geol. vol 4 (special issue). Tribhuvan University, Kathmandu, pp. 1-70 (1995).

OTHER CURRENT PROFESSIONAL CONTRIBUTIONS

CONSULTING WORKS: Accomplished significant numbers of feasibility and DPR related to Geology and Engineering Geology of Highways including Kathmandu-Nijgad Fast Track, east-west railways, hydropower tunnels, irrigation dam and canals, lowering of glacial lake level at 4500 m altitude, etc.

From 2017 to 2020:

Peoples Hydropower Company Pvt. Ltd., Anamnagar, Kathmandu, Nepal Super Dordi Hydropower Project-Kha, 49.6MW, Lamjung District, Nepal as Senior Engineering Geologist. Task: construction monitoring, identification of critical geological zone and proposing mitigation measures, report writing.

From 2018 to 2019:

Soosung Engineering Co., Ltd., Korea in association with Tech Studio of Engineering, Nepal, Detail Project Report of Kathmandu Terai / Madhesh Fast Track (Expressway) Road as Senior Engineering Geologist. Tasks: field mapping, data analysis and report writing.

From 2017 to 2018:

FSDI, China; PEC, DMUC, Korea; SILE, TSE, ERMCO, Nepal, Detailed Engineering Survey and Design of Electrified Railway Line for Nepalganj - Lamahi Section of Mechi-Mahakuli Railway as Senior Engineering Geologist. Task: field mapping, data analysis and report writing.

From March 2014 to April 2015:

Engineering Geologist, Upulko Khimti (12 MW) Hydropower Project, Ramechhap District, Himalaya Urja Bikash Company (Pvt.) Ltd., Subidhanagar, Kathmandu District

Lower Khimti (7 MW) Hydropower Project, Ramechhap District, Himalaya Urja Bikash Company (Pvt.) Ltd., Subidhanagar, Kathmandu District. Task: geological mapping, alignment selection, data analysis and report writing.

From February 2014 to March 2014:

Engineering Geologist, Clean Energy Consultants Pvt. Ltd., Anamnagar, Kathmandu, Upper Puluwa Hills

Small Hydropower Project (6.5 MW) Sankhuwasaba District. Task: geological mapping, alignment selection, data analysis and report writing.

From February 2014 to March 2014:

Engineering Geologist, Clean Energy Consultants Pvt. Ltd., Anamnagar, Kathmandu, Naugadh Gad Small Hydroelectric Project, Darchula District. Task: geological mapping, alignment selection, data analysis and report writing.

From June 2012 to August 2012:

Engineering Geologist, Clean Energy Consultants Pvt. Ltd., Anamnagar, Kathmandu, Upper Khoranga Hydropower Project, Tehrathum District. Task: geological mapping, alignment selection, data analysis and report writing.

From June 2012 to August 2012:

Engineering Geologist, Tech Studio of Engineering, Dillibazar, Kathmandu & Department of Roads. Geotechnical survey along existing 60 km Khurkot-Ghurni Road, Sindhuli & Udayapur Districts. Task: geological mapping, hazard assessment and mitigation measures, data analysis and report writing.

From September 2011 to September 2012:

Engineering Geologist, Clean Energy Consultants Pvt. Ltd., Anamnagar, Kathmandu, Super Dordi Hydropower Project-Kha, Gorkha District. Task: pre-feasibility study, geological mapping, alignment selection, data analysis and report writing.

From March 2011 to August 2011:

Engineering Geologist, Clean Energy Consultants Pvt. Ltd., Anamnagar, Kathmandu, Pikhawa Khola SHP (8.4 MW), Bhojpur District. Task: geological mapping, alignment selection, data analysis and report writing.

From March 2009 to April 2011:

Engineering Geologist, Marshyandi Power Company (P) Ltd., Gungahu, Middle Marshyandi Hydropower Project and Manang-Marshyandi Hydropower Project. Task: geological mapping, alignment selection, data analysis and report writing.

From July 2010 to September 2010:

Engineering Geologist, Clean Energy Consultants Pvt. Ltd., Anamnagar, Kathmandu, Upper Hewa Small Hydropower Project, Sankhuwasabha District. Task: geological mapping, alignment selection, data analysis and report writing.

From May 2009 to June 2010:

Engineering Geologist, Clean Energy Consultants Pvt. Ltd., Anamnagar, Kathmandu, Rudi Khola Small Hydropower Project, Lamjung District. Task: geological mapping, alignment selection, data analysis and

report writing.

From March 2008 to April 2008:

Environmentalist, Geo Consult (P) Ltd., Department of Irrigation, Preparation of Environmental Impact Assessment (EIA).

Organizing Member/ Environmentalist, Geo Consult (P) Ltd., Department of Irrigation, To conduct workshop on 'Training on IEE and EIA for engineers of Department of Irrigation' to organize workshop to irrigation engineers

From May 2007 to December 2007:

Engineering Geologist, Full Bright Consultancy (Pvt.) Ltd., Kathmandu Valley Town Development Committee. Study of flood prone area in Kathmandu, field data collection and analysis and report writing.

From June 2007 to August 2007:

Engineering Geologist/Team Leader, Geo Consult (P.) Ltd., Department of Irrigation, Engineering geological mapping of Intake area and along the proposed canal alignment of Budkapal Irrigation Project, Dang. Task: geological mapping, alignment selection, data analysis and report writing.

From May 2007 to June 2007:

Engineering Geologist, Geo Consult (P.) Ltd., Department of Water Induced Disaster Prevention, Preparation of topographic map and preliminary geomorphological report of Changu Narayan Disaster site. Task: geomorphological mapping, data analysis and report writing.

From December 2006 to February 2007:

Program Evaluator, Geo Consult (P.) Ltd., Nepal Red Cross Society, Kathmandu, Nepal, Evaluation of School Based Disaster Risk Reduction Program (Program implemented Districts: Bhaktapur, Chitawan and Syangja). Task: awareness about natural disasters, evaluation and data analysis, and report writing.

From May 2006 to June 2006:

Engineering Geologist, RASS Engineering Consultancy (P) Ltd., Department of Water Induced Disaster Prevention. Preparation of Water Induced Hazard Map of West Rapti River Basin (includes Dang, Pyuthan, Rolpa and Argakhachi Districts). Preparation of land use mapping, geological mapping, and water induced hazard maps as well as report writing.

From April 2004 to June 2005:

Hazard Expert, JICA, Nepal, Department of Geology, Tri-Chandra Campus, Preparation of geological and hazard guide book around Pokhara-Jomsom-Muktinath area. Task: geological mapping, data collection and analysis and support to report writing.

From April 2003 to June 2003:

Engineering Geologist, Mountain Risk Engineering Unit, Tribhuvan University, Department of Water

Induced Disaster Prevention, Flood hazard mapping in the Rupandehi District, West Nepal. Task: geological mapping, data collection and analysis, and support to report writing.

From June 2001 to August 2001:

Engineering Geologist/Team Leader, Scott Wilson Kirkpatrick & Co Ltd, U.K, Landslide Risk Assessment in the Rural Access Sector, Lalitpur, Nepal, Landslide inventory covering 10 km wide area along the road corridor of Mechi Highway, Ilam District. Task: geomorphological and geological mapping, landslide mapping, data analysis and report writing.

From September 2000 to February 2001:

Geomorphologist/Team Leader, Mountain Risk Engineering Unit, Tribhuvan University, Kathmandu, Nepal, PARDYP Project, International Centre for Integrated Mountain Development (ICIMOD), Lalitpur. Task: detailed sediment source mapping of the Jhiku Khola Watershed, central Nepal at 1:20,000 scale and report writing.

From January 1999 to January 2001:

Engineering Geologist/Team Leader, Department of Hydrology and Meteorology, Tsha Rolpa Glacier Lake Outburst Flood Risk Reduction Project. Task: geomorphological, geological and engineering geological mappings, hazard map preparation, data analysis and report writing.

From June 1998 to June 1998:

Engineering Geologist, Tech Studio Engineering Consultancy, Kathmandu, Nepal, Department of Roads, Suspension bridge site selection in the Sankhuwa Khola, Sankhuwasabha. Task: geological mapping, alignment selection, data analysis and report writing.

From May 1999 to June 1999:

Engineering Geologist, Department of Roads, Concrete bridge site selection in the Khudi Khola, Lamjung. Task: geological mapping, alignment selection, data analysis and report writing.

From April 1999 to May 1999:

Engineering Geologist, Department of Roads, Concrete bridge site selection in the Sankhuwasava. Task: geological mapping, alignment selection, data analysis and report writing.

From April 1999 to April 1999:

Engineering Geologist, SMEC, Maharajganj, Kathmandu, Department of Roads. Road corridor survey of Chinchu-Jajarkot road. Task: geological mapping, data analysis and support to report writing.

Google Index II = 15

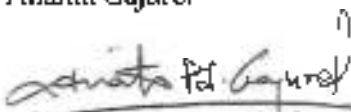
Travelled out of Nepal:

France, Italy, Austria, Spain, Switzerland, USA, Japan, Thailand, Cambodia, China, India, & Bangladesh

Language efficiency:

Language	Speaking	Reading	Writing
Nepali	Mother Tongue		
English	Good	Good	Good
French	Good	Good	Fair
Hindi	Good	Good	Good

Name: Dr. Ananta Gajurel

Signature: 

प्रारम्भिक वातावरणीय परिक्षण प्रक्रियामा संलग्न अध्ययन टोली सदस्यको स्वघोषणा

प्रतिवेदनको मुख्य शीर्षक: बुटवल न्गोर्सिंग (५० कि मी) सडकखण्डको स्तरोन्नति

प्रस्तावकको नाम: आयोजना निर्देशनालय (ए.डी.सी), सडक विभाग

ठेगाना: विशालनगर, काठमाडौं

फोन नं: ०१-४४३७४९२, ४४३७४९३

फ्याक्स नं: ४४३७४८८

इमेल: pdadb@wlink.com.np

म निम्न घोषणा गर्दछु

- म यस आयोजनाको वातावरणीय प्रभाव मूल्यांकन अध्ययन प्रतिवेदनमा संलग्न छु ।
- मैले यो अध्ययन स्वीकार्य अध्ययन विधि प्रयोग गरि तयार गरेको छु ।
- यस प्रतिवेदनमा समावेश गरिएको विवरणहरू सत्य र सही रहेका छन् ।
- मैले यस प्रतिवेदनमा समावेश भौतिक, जैविक, सामाजिक तथा आर्थिक वातावरणीय विवरण तथा सामग्रीको अध्ययन र जाँच गरेको छु ।
- म संलग्न यस आयोजनाको वातावरणीय अध्ययनसँग सम्बन्धित प्रतिवेदनमा समावेश कुनै पनि भ्रामक जानकारी वा विवरणको मा नैतिक तथा कानूनी जवाफदेहिता बहन गर्दछु ।
- माथि बुदाँ नम्बर १ मा उल्लेखित अध्ययन कार्यको मितिसिलाभा प्रस्तावित आयोजना क्षेत्रमा मिति डिसेम्बर २०२१ देखि मार्च २०२२ सम्म म स्वयम् उपस्थित भै तथ्यांक संकलन गरेको घोषणा गर्दछु ।
- यो अध्ययन प्रतिवेदनमा बौद्धिक चोरी लगायत कार्यको जिम्मेवारी बहन गर्दछु ।

दस्तखतः

परामर्शदाता संस्थाको छाप: 

विषय विज्ञ सदस्यको नाम, थर: सुरेश बाबु श्रेष्ठ

सिभिल इन्जिनियर/सडक इन्जिनियर

मिति: २०७९/९/२१



CURRICULUM VITAE (CV)

Position Title and No.	Senior Highway Engineer
Name of Expert	Suresh Babu SHRESTHA
Date of Birth (day/month/year)	22/11/1952
Country of Citizenship/Residence	Nepal

Education & Training

1991	M. Sc. in Civil Engineering (Specialized in Highway Engineering), Kharkov Automobile and Highway Institute, Ukraine (Former USSR) – (Integrated Bachelor and Master Degree), '986 to 1991
1987 (6 Weeks)	AutoCAD Computer Training Course
1983 (2 Weeks)	Training Course on Survey, Design & Implementation of Terrace Irrigation Project, ILO
1982 (2 Weeks)	Training Course on Survey, Design & Implementation of Water Supply and Sanitation Project, UNICEF

Employment record relevant to the assignment

Period	Employing organization and your title/position. Contact information and for References	Country	Summary of Activities performed relevant to the Assignment
08/1995 - Present	Tech Studio of Engineering Highway Design Engineer For References: Mr. Sanjeev Regmi Tel: 985-105-900 Email: sanjeevregmi2012@gmail.com	Nepal	• Responsible for Survey, Design and Construction supervision of Various Road Projects
02/1994 - 04/1995	BDA Nepal Highway Engineer For References: Mr. R. K. Sharma Tel: 977-01-552-3277	Nepal	• Responsible for Field study, Selection of alternative Alignments, Comparison of Alignment and Preparation of Feasibility study report.
01/1992 - 01/1994	C-CON Highway Engineer For References: Mr. Suren Babu Shrestha Tel: 985-105-9344	Nepal	• Responsible for carrying out Detailed Engineering Survey and Detailed Design of Roads; and Preparation of Drawings and Cost estimate. Field study; Selection of Alternative Alignments, Comparison of Alignment; and Preparation of Feasibility study report.

Membership in Professional Associations and Publications

02/2020	Member, Nepal Engineering Council (Ref. No. CIVIL "A" 1840)
1997	Member, Nepal Engineers Association

Language Skills

Languages	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Russian	Excellent	Excellent	Excellent
Nepali		Mother Tongue	

Adequacy for the Assignment

Detailed Tasks Assigned on Consultant's Team of Experts	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks												
- Coordinate with the Subordinate Team to ensure that the construction process is well controlled as per established Procedures; - Interact on with the client. - Collection of available data, maps, policy and other related document; - Preliminary and detail design work through practical and cost.	(1) SASEC Highway Improvement Project / Funded by ADB <table> <tr> <td>Period</td><td>10/2020 ~ Present (5 months)</td></tr> <tr> <td>Location</td><td>Nepal</td></tr> <tr> <td>Client</td><td>ADB Directorate/ Department of Roads</td></tr> <tr> <td>Main Project Features</td><td> Detailed Survey and Design of Following sections of East West Highway to upgrade to 4 lane standard: Kakarbhitta–Laukai Section: L=120km Pathalya–Hetauda–Narayanghat Section: L=100km Butawal–Gorusingha Section: L=50km </td></tr> <tr> <td>Positions Held</td><td>Highway Engineer</td></tr> <tr> <td>Activities</td><td>Responsible for field visit, review of previous reports carrying out necessary</td></tr> </table>	Period	10/2020 ~ Present (5 months)	Location	Nepal	Client	ADB Directorate/ Department of Roads	Main Project Features	Detailed Survey and Design of Following sections of East West Highway to upgrade to 4 lane standard: Kakarbhitta–Laukai Section: L=120km Pathalya–Hetauda–Narayanghat Section: L=100km Butawal–Gorusingha Section: L=50km	Positions Held	Highway Engineer	Activities	Responsible for field visit, review of previous reports carrying out necessary
Period	10/2020 ~ Present (5 months)												
Location	Nepal												
Client	ADB Directorate/ Department of Roads												
Main Project Features	Detailed Survey and Design of Following sections of East West Highway to upgrade to 4 lane standard: Kakarbhitta–Laukai Section: L=120km Pathalya–Hetauda–Narayanghat Section: L=100km Butawal–Gorusingha Section: L=50km												
Positions Held	Highway Engineer												
Activities	Responsible for field visit, review of previous reports carrying out necessary												

efficient approach; • Prepare designs based on the typical road sections, applying sound engineering practice and giving due regards to environmental aspects; • Design, development and production management for the roadway plans; • Produce support documentation, including reports, quantities and specifications; • Design of Bio Engineering Works and Environmental Protection • CPM analysis and planning; • Prepare designs based on the typical pavement sections, applying sound engineering practices and giving due regards to environmental; • Establish the thickness and composition of the pavement by trial pits and sampling, and sub-grade strengths by Dynamic Core penetration (DPC) testing and/or in-situ California Bearing Ratio (CBR) • Maximize the use of existing pavement layers (stripping only in case of strength deficiency) • Design of sub-grade, sub-base, base and asphalt layers for each 100m interval or where the sub-surface condition/traffic volume changes considering the AADT data which needs to be collected by the consultant at the particular junctions / road sections, direct traffic counting at critical junctions and • Design of pavement on the bridges and approach roads.	Performed	survey works, finalization of design standard, preparing cost effective design for up gradation of roads in environmental and social consideration, preparation of cost estimate and supervision works.	
	(2) Detailed Engineering Survey, Design of Road & Report Preparation (DPR) of Tilganga-Teenkune 8 Lane Ring Road Improvement Project		
	Period	02/2000 ~ 08/2000 (6 months)	
	Location	Nepal	
	Client	Federal Road Supervision and Monitoring Office, Province - 3, Road Division Kathmandu, Minchawan	
	Main Project Features	Detailed Engineering Survey, Design of Road & Report Preparation of Tilganga-Teenkune Ring Road	
	Positions Held	<u>Team Leader / Highway Engineer</u>	
	Activities Performed	Responsible for engineering survey traffic count survey, inventory survey including pavement condition survey, detailed geometric design, of the roads, detailed engineering design of drainage structures, retaining structures and pavement preparation of cost estimate, preparation of various reports, contract document, coordination with client, team management	
	(3) Kathmandu Terai / Madhesh Fast Track (Expressway)		
	Period	12/2018- 03/2019 (3 months)	
	Location	Nepal	
	Client	Nepal Army/ International Consultant Soosung Engineering Co. South Korea	
	Main Project Features	Preparation Detailed Project Report of L=72.5km of KTFT 4 lane bituminous roads Cost NRs 175193 millions, Consulting Fee NRs 102.58 million	
	Positions Held	<u>Highway Design Engineer</u>	
	Activities Performed	Field visit review of ADB feasibility report, traffic study and analysis design of Highway, preparation of cost estimate and preparation of Detailed Project Report.	
	(4) Detailed Engineering Survey and Design of various Roads under PNEU/337150/073/74 DPR-7		
	Period	03/2017- 05/2018 (11 months)	
	Location	Nepal	
	Client	Government of Nepal, Department of Road	
	Main Project Features	Detailed Survey and Design of following double lane bituminous roads Chupra-Koria-Multhi-Kasandi-Dulu-Pichhari Sadak, Dolekh 17km / Balansapur Bansa-Falapur Sadak, Banko 19.37 km / Ghorahi Vasna Saingra Swargadwari Sadak, Dang 24.85km / Ghorahi Phursawali-Glihepani Hattiharka Sadak, Dang 17km / Salyan Lunam Phadban Makhantakuri Sadak, Salyan 12km / Khalanga Markot-Kamati Rampur Karchaul-Honalpur Barke Sadak, Salyan 14km / Khaanga Marka Hiwacna khairatar Shreerager Sadak, Salyan 10km / Bangesal Agleni Kaskot Jabune Khalanga Sadarmukam, Pyuthan 14.2km / Nepane Kumaltakura chidibas Lamidamar 12km Project Cost: NRs. 9220 million / Consulting Fee: NRs 8,276,818.00	
	Positions Held	<u>Team Leader / Highway Design Engineer</u>	
	Activities Performed	Responsible for Coordination with Client, management of team, Collection of relevant data and documents, detailed engineering survey, traffic count survey, inventory survey including pavement condition survey, detailed geometric design, of the roads, detailed engineering design of drainage structures, retaining structures, pavement works, preparation of cost estimate, preparation of various reports, contract document	
(5) Detailed Design of Melamchi Phase II including Access Road for Melamchi Phase II / Funded by ADB			
Period	12/2016- 03/2017 (13 months)	Location	Nepal
Client	Melamchi Water Supply Development Board/ADB/International Consultant EPTISA, Spain		
Main Project Features	Detailed Design of Diversion Tunnel, Head Works for Melamchi Phase 2 including 10.5Km long access road to the from Dhas to Yangri Head Works including design of three bridges over Indrawati and Yangri Rivers. Project Cost NRs. 1000 million (Road Components only). Consulting Fee: NRs 325.21 million		
Positions Held	<u>Highway Design Engineer</u>		
Activities Performed	Responsible for Collection of relevant data and documents, detailed engineering survey land acquisition related works, detailed geometric design, of the roads, detailed engineering design of drainage structures, retaining structures, pavement works, preparation of cost estimate, preparation of various reports, contract documents.		
(6) Road Improvement Project Phase II, Package-2 / Funded by Exim Bank of India			

Period	12/2015 – 05/2016 (6 months)	Location	Nepal
Client	Road Improvement Project/Department of Roads		
Main Project Features	Detail Survey Design of upgrading of the following roads to double lane bituminous standard (i) Salleghat-Ramachhap-Sangutar Road-25.3 Km, Project Cost: NRs. 1,300,817,042.00 (ii) Gaidakot-Rampur (Pipaldanda) Road-131.70 Km, Project Cost : USD. 40,299,817 Consulting Fee NRs 431,035 million.		
Positions Held	<u>Highway Design Engineer</u>		
Activities Performed	Responsible for engineering survey including material survey, road inventory survey, detailed geometric design, of the roads, detailed engineering design, preparation of cost estimate, assist Team Leader in preparation of various report, preparation of Tender Document for improvement of the roads		
(7) Burtibang –Patihaina Section of Mid Hill Highway Project			
Period	02/2015 – 11/2015 (9 months)	Location	Nepal
Client	Mid Hill West (Puspatali) Highway Project		
Main Project Features	Detailed Design Survey and Design of Highway and Other Structures and Preparation of Detailed Project Report of Burtibang-Patihaina of Mid Hill Highway (41.74 Km, double lane bituminous standard) for Mid Hill West (Puspatali) Highway Project. Project Cost: NRs. 1677 millions Consulting Fee:NRs,1,840,000.00		
Positions Held	<u>Team Leader / Highway Design Engineer</u>		
Activities Performed	Responsible for engineering survey, traffic count survey, inventory survey including pavement condition survey, detailed geometric design, of the roads, detailed engineering design of drainage structures, retaining structures and pavement, preparation of cost estimate, in preparation of various reports, contract document, coordination with client, team management.		
(8) Construction Supervision of Roads under Road Improvement Project / Funded by Exim Bank of India			
Period	10/2014 – 02/2015 (2 months)	Location	Nepal
Client	Road Improvement Project, DOR		
Main Project Features	Design Review and Construction Supervision of following Roads to double lane bituminous roads. Sahidmarg Road (101.66 Km), Lumbini Buddhist Circuit Road (58.67 Km), Sanfebagar-Martadi Road (27.71 Km) Hilly Road Bardghat-Padarnaa-Triveni Road (12 Km) Project Cost: NRs. 2385 millions Consulting Fee: NRs. 93,122 million; Positions held Highway Design Engineer		
Positions Held	<u>Highway Design Engineer</u>		
Activities Performed	Supervision of construction survey, review of the existing design, optimization of geometric design, carrying out re design during construction work, assist Resident Engineer and Team Leader in solving problem related to the design, for various roads as mentioned above		
(9) Solu Saller Road (185 Km)			
Period	05/2014 – 10/2014 (5 months)	Location	Nepal
Client	ACQMP/DOR		
Main Project Features	Detailed Engineering, Survey, Design and Preparation of DPR of Baitar Kamphugha-Pamakhani Bhanjyang-Tenke-Sarsudhap-Mayur Danda-Sloa Pokhar-Gudel to Solu Saller Road 185Km Road. Project Cost: NRs. 9,725 million. Consulting Fee: NRs 71,208,000.00		
Positions Held	<u>Team Leader / Highway Engineer</u>		
Activities Performed	Responsible for engineering survey, traffic count survey inventory survey including pavement condition survey, detailed geometric design, of the roads, detailed engineering design of drainage structures, retaining structures and pavement, preparation of cost estimate, preparation of various reports, contract document, coordination with client, team management.		
(10) Ganeshchowk –Chiyobhanjyang Sector of Mid Hill Highway			
Period	09/2013 – 02/2014 (3 months)	Location	Nepal
Client	Mid Hill Highway Project/Department of Roads		
Main Project Features	Detailed Design for Upgrading of Highway (Review of existing road corridor and Detailed Survey Design, Preparation of Contract Document and Preparation of Detailed Project Report of Ganeshchowk-Chiyobhanjyang Sector of Mid Hill Highway, 60 Km double lane bituminous road. Project Cost: NRs 3025 million. Consulting Fee:NRs 4,488,000.00		
Positions Held	<u>Team Leader / Highway Design Engineer</u>		
Activities Performed	Responsible for engineering survey, traffic count survey, inventory survey including pavement condition survey, detailed geometric design, of the roads, detailed engineering design of pavement, drainage and retaining structures, preparation of cost estimate, preparation of various reports and contract document, coordination with client, team management.		
(11) Road Improvement Project, Package E / Funded by Exim Bank of India			
Period	03/2013 – 03/2013 (6 months)	Location	Nepal
Client	Road Improvement Project/Department of Roads		
Main Project Features	Detail Survey Design of the following roads to double lane bituminous roads: Sahidmarg Road (101.66 Km),		

	Lumbini Buddhist Circuit Road (58.67 Km), Sanfebagar-Martadi Road (27.71 Km) Hilly Road, Bardghat-Paldanda-Triveni Road (12 Km) Project Cost: NRs. 2,885 millions. Consulting Fee: NRs 193,122 million		
Positions Held	<u>Highway Design Engineer</u>		
Activities Performed	Responsible for engineering survey, detailed geometric design, of the roads, detailed engineering design, preparation of cost estimate, assist Team Leader in preparation of various report, preparation of Tender Document for improvement of the roads.		
(12) Detailed Design of Koshi Corridor			
Period	11/2012 – 03/2013 (5 months)	Location	Nepal
Client	Puspatal Mid Hill Highway Project, Eastern Sector, Department of Roads		
Main Project Features	Detailed Design of Kabeli-Mulghat-Chatara Sections of Koshi Corridor (13 Km). Project Cost: NRs. 1281 millions.		
Positions Held	<u>Team Leader / Traffic Engineer</u>		
Activities Performed	Responsible for engineering survey, detailed geometric design, of the roads, detailed engineering design, preparation of cost estimate, preparation of various report, preparation of Tender Document, coordination with client, team management.		
(13) Khurkot Ghurmi Road (Ch 0+000 to Ch 60+000), 60 Km for Puspatal (Mid Hill) Highway Project			
Period	12/2011 – 09/2012 (10 months)	Location	Nepal
Client	Puspatal (Mid Hill) Highway Project, DoR		
Main Project Features	Review of Existing Road and its Corridor, Detailed Engineering Design of Highway and Other Structures for Upgrading of Highway, Preparation of Contract Document, Detailed Project Report (DPR) and Land Acquisition Work of Khurkot-Ghurmi Road of Mid Hill Highway 60 Km, double lane bituminous Road. Project Cost: NRs. 1794 millions. Consulting Fee: NRs 2,983,700.00		
Positions Held	<u>Team Leader / Highway Design Engineer</u>		
Activities Performed	Responsible for engineering survey, traffic count survey, detailed geometric design, pavement design & design of other structures of the road, preparation of cost estimate & report, preparation of Detailed Project Report (DPR), coordination with client, team management.		
(14) Ghurmi-Chatra Road (from Ch 105+000 to 139+000), 38 Km			
Period	04/2011 – 08/2011 (5 months)	Location	Nepal
Client	Puspatal (Mid Hill) Highway Project, Department of Roads		
Main Project Features	Detailed Engineering Survey and Detailed Design of Ghurmi-Chatra Road (from Ch 105+000 to 139+000) 38 Km to double lane bituminous standard for Puspatal (Mid Hill) Highway Project. Project Cost: NRs. 2316 millions		
Positions Held	<u>Team Leader / Highway Design Engineer</u>		
Activities Performed	Responsible for data collection, engineering survey, geometric design of the road and other structures, preparation of cost estimate, assisting Team Leader in preparation of various reports, coordination with client, team management.		
(15) Mid Hill Highway (Eastern Sector), 886 Km Road.			
Period	05/2010 – 12/2010 (8 months)	Location	Nepal
Client	Puspatal (Mid Hill) Highway Project, Department of Roads		
Main Project Features	Preparation of Detailed Project Report of Mid Hill Highway (Eastern Sector) 886 Km of double lane Highway. Project Cost: NRs. 19,598 millions		
Positions Held	<u>Highway Engineer</u>		
Activities Performed	Responsible for data collection, site visit, design of the road and other structures, preparation of cost estimate, assisting Team Leader in preparation of various reports and presentation		
(16) Detailed Engineering Survey and Detailed Design of Chheda-Dharampokhara-Kahali Road Project			
Period	03/2009 – 07/2009 (5 months)	Location	Nepal
Client	Mid-Western Division Road Office no 4, Department of Roads		
Main Project Features	Detailed Engineering Survey and Detailed Design of Chheda-Dharampokhara-Kahali Road Project, 2* 5 m Karbali Road. Project Cost: NRs. 645 million		
Positions Held	<u>Highway Engineer</u>		
Activities Performed	Responsible for data collection, engineering survey, geometric design of the road and other structures, preparation of cost estimate, assisting Team Leader in preparation of various reports		
(17) Road Upgrading Project of Ratnanagar Municipality, Chitawan / Funded by ADB			
Period	04/2006 – 03/2009 (35 months)	Location	Nepal
Client	UEIP/ADB		
Main Project Features	Detail design & supervision of upgrading of Urban Road from Nippani to the Baghmara. Project Cost: NRs. 25.58 million		
Positions Held	<u>Resident Engineer / Highway Engineer</u>		
Activities Performed	Responsible for detailed engineering survey, design of road, upgrading from Nippani to the Baghmara (5.2		

	Km) overall contract management supervision and monitoring, coordination with client and contractor quality control, cost control and time control.		
(18) Bus Terminal at Damak Municipality / Funded by KfW			
Period	08/2005 – 11/2005 (3 months)	Location	Nepal
Client	Town Development Fund		
Main Project Features	Detailed engineering of bus Terminal at Damak Municipality. Project Cost: NRs. 27.93 million		
Positions Held	<u>Road / Traffic Engineer</u>		
Activities Performed	Responsible for carrying out traffic count survey of Itahari-Kakarshirda Section of East-West highway, traffic analysis, interpretation and forecast, design of terminal road for Bus Park		
(19) Various Projects			
Period	01/1992 – 09/2005	Location	Nepal
Client	Various Clients		
Main Project Features	Design and supervision of roads and other infrastructures		
Positions Held	<u>Highway Engineer/Resident Engineer/Civil Engineer</u>		
Activities Performed	As follows (i) Resident Engineer, Construction of Internal Road Networks for BPKMCH and other infrastructures for BP Koirala Memorial Cancer Hospital; (ii) Highway Engineer for Detailed Design of: Staceila-Wadole, Dandapsuwa Road, Karami-Syuchatar-Nursary Bhanjyang Road, Bhadara-Lother-Malesthi Road, Bhurigaun-Talpar-Surchoi Road (52 Km), Bhadara-Dandapsuwa-5 No Budhstane Road, Dullu-Badarchi-Singon Rakam Kamali-Pipakot Road, 12 km; Surchoi-Ranimarla-Diek Road, 25 Km		

Expert's contact information: (e-mail: sureshbasha@gmail.com, phone: 977-985-408-2909)

Certification:

I, the undersigned, certify that to the best of my knowledge and belief this CV correctly describes myself, my qualifications, and my experience, and I am available, as and when necessary, to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Bank.

Suresh Babu SHRESHTA

Name of Expert


Signature

15/07/2021

Date

प्रारम्भिक वातावरणीय परिक्षण प्रक्रियामा संलग्न अध्ययन टोली सदस्यको स्वःघोषणा

प्रतिवेदनको मुख्य शिर्षक: श्रुत्यल -गोरुसिमे (५० कि मी) सडकखण्डको स्तरोन्नति

प्रस्तावकको नाम: आयोजना निर्देशनालय (ए.डी.बी), सडक विभाग

ठेगाना: विशालनगर, काठमाण्डौ

फोन नं: ०१-४४३३७४९२, ४४३३७४९३

फ्याक्स नं: ४४३३७४८८

ईमेल: pdadb@wlink.com.np

म निम्न घोषणा गर्दछु।

- म यस आयोजनाको वातावरणीय प्रभाव मूल्यांकन अध्ययन प्रतिवेदनमा संलग्न छु।
- मैले यो अध्ययन स्वीकार्ने अध्ययन विधि प्रयोग गरि तयार गरेको छु।
- यस प्रतिवेदनमा समावेश गरिएको विवरणहरू सत्य र सही रहेका छन्।
- मैले यस प्रतिवेदनमा समावेश भौतिक, जैविक, सामाजिक तथा आर्थिक वातावरणीय विवरण तथा सामग्रीको अध्ययन र जाँच गरेको छु।
- म संलग्न यस आयोजनाको वातावरणीय अध्ययनसँग सम्बन्धित प्रतिवेदनमा समावेश कुनै पनि भ्रामक जानकारी वा विवरणको म नैतिक तथा कानूनी जबाफदेहीता वहन गर्दछु।
- माथि बुदाँ नम्बर १ मा उल्लेखित अध्ययन कार्यको सिलसिलामा प्रस्तावित आयोजना क्षेत्रमा मिति डिसेम्बर २०२१ देखि मार्च २०२२ सम्म भ स्वयम् उपस्थित भै उध्यांक संकलन गरेको घोषणा गर्दछु।
- यो अध्ययन प्रतिवेदनमा औदिक नोरी लगायत कार्यको जिम्मेवारी वहन गर्दछु।

दस्तखत:

परामर्शदाता संस्थाको छाप:

विषय विज्ञ सदस्यको नाम, थर: संजय अधिकारी

हार्डडोलोजिस्ट

मिति: २०७९/९/२१



1. **Proposed Position:** Hydrologist
2. **Name of Firm:** Tech Studio of Engineering
3. **Name of Expert:** Mr. SANJAY ADHIKARI

4. **Current Residential Address:**

Telephone No.: 9851160103

Date of Birth: February 6th 1978

E-mail Address: sanjayhydrol978@gmail.com

Citizenship: Nepali

5. **Education:**

- M. Sc in Water Resources Engineering, Institute of Engineering, Pulchowk Campus, 2011
- B.E. in Civil Engineering, Tribhuvan University, 2004

Membership in Professional Association:

- Nepal Engineering Council, Reg. No. 4084 (Civil), 'A'
- Nepal Engineers Association 7115, Life Member

6. **Other Trainings:**

- Training on Application of Arc GIS 9.X tools for Hydrology, Jan 5 – Feb 12, 2008, Organized by I.C.E., Pulchowk, campus, MSc. Water Resource Engineering Programme
- Training on Application of HEC RAS and HEC GEO RAS for Bridge Hydraulics Hydrology Oct10 – Oct 28, 2008, Organized by I.C.E., Pulchowk, campus, MSc. Water Resource Engineering Programme
- 10 Days Training On Remote Sensing ERDAS IMAGINE at Institute of Engineering, Nov 2008
- 15 Days CRDM Road Design Software Training
- 15 Days SW DTM Road Design and Topographical Preparation Training
- 15 days Land development Training

7. **Countries of Work Experience:**

Nepal

8. **Languages:**

LANGUAGES	Speaking			Reading			Writing		
	Good	Fair	Poor	Good	Fair	Poor	Good	Fair	Poor
Nepali	O			O			O		
English	O			O			O		
Hindi	O			O			O		
Maithali	O			O			O		

9. **Employment Record:**

From	: August 2020	To	: Till Date
Employer	ANK Construction Co. Pvt. Ltd.		
Positions Held	Hydrologist		
From	: February 2019	To	: July 2020
Employer	Kathmandu Terai/Madesh Fast Track Road Project		
Positions Held	Hydrologist		
From	: August 2017	To	: January 2019 (Intermittent of 9 months)
Employer	Grid Nepal Design Associates Pvt. Ltd.		
Positions Held	Senior Hydrologist		
From	: January 2015	To	: October 2018 (Intermittent of 8 months)
Employer	Kyoung Dong Engineering Co. Ltd., South Korea; International Consultant		
Positions Held	Senior Hydrologist		
From	: December 2013	To	: July 2017
Employer	International Development Association (World Bank) Bridge Improvement and Maintenance Program (BIMP)		
Positions Held	Senior Hydrologist		
From	: May 2013	To	: December 2013
Employer	MSV International, USA		

Positions Held	: Senior Hydrologist		
From	: March 2011	To	: May 2013
Employer	: Crd Nepal Design Associates Pvt. Ltd.		
Positions Held	: Hydrologist/Project Coordinator		
From	: September 2009	To	: February 2011
Employer	: Tech Studio of Engineering		
Positions Held	: Civil Engineer		
From	: March 2004	To	: August 2008
Employer	: North star Engineering Consultant P. Ltd.		
Positions Held	: Civil Engineer		

10. Detailed Tasks Assigned	11. Work Undertaken that Best illustrates capability to handle the Tasks Assigned
Responsible for • Technical assessment of site conditions / suitability and issues, • Surface runoff / run-on analysis, Flood / inundation modeling, site drainage assessment & design • Data collection on existing flow regime and structures • Drainage / hydrological assessment, estimation of peak discharge locations and volumes, detailed drainage design • Hydrological design of culverts / bridges / cross & toe drains • Study and analysis of water shed • Determining type of the cross – drainage structure • Structural design of slab and box culverts • Size and locations of road – side drainage and cross drainage structures (Appropriate side drains and cross drainages such as pipe culverts) • Design of the water conduit / rain water inlets / manholes to take storm water safely to the nearby natural stream • Use of the existing structures • Design of Subsurface drains • Technical report preparation	(1) Name of Assignment or Project: Narayanghat – Mugling Road Project funded by World Bank Year: August 2020 to Till date; Location: Chitwan district; Client: Government of Nepal, Department of Road, Bridge Branch; Main Project Features: Design & Built Construction of 15 no. bridges along Narayanghat Mugling Road Project; Construction Cost: 125 Million, Position Held: Hydrologist; Activities Performed: • Responsible Hydrological analysis for design of 15 bridges along the road alignment • Responsible to calculate the design peak discharge for each bridge structure in different design return period • Responsible for calculation of catchment area of the river up to bridge site, scour depth, silt factor, determine high flood level using HEC RAS, low water level, lowest bed level, establishing wetted parameter, maximum discharge/peak discharge (considering over a period of 100 years) and river training works requirement. • Carry out site visits if required for review of hydrological issues of Bridge structures and resolving the site problems. • Prepare report on hydrological study related to all proposed new bridges along the alignment. (2) Name of Assignment or Project: Kathamandu Terai Fast Track(Expressway) Project ; Year: February 2019 to July 2020; Location: Kathmandu; Client: Government of Nepal, Ministry of Defense, Nepal Army; Main Project Features: Implementation of Kathamandu Terai Fast Track(Expressway) Project. Construction Cost: 178,888.00 Millions; Position Held: Hydrologist; Activities Performed: • Responsible to establish the ideal rainfall, intensity, duration and frequency data for the design of drainage structure including horizontal and cross drainage structures and bridges. • Responsible to prepare individual watershed areas for each cross drainage structure located along the KTFT alignment. • Responsible to calculate the design peak discharge for each drainage structure in different design return period • Responsible for calculation of catchment area of the river up to bridge site, scour depth, silt factor, determine high flood level using HEC RAS, low water level, lowest bed level, establishing wetted parameter, maximum discharge/peak discharge (considering over a period of 100 years) and river training works requirement. • Carry out site visits if required for review of hydrological issues of drainage structures and resolving the site problems. • Prepare report on hydrological study related to all proposed bridges and cross drainage structures along the alignment. (3) Name of Assignment or Project: DPR of Road & Bridge Projects ; Year: August 2017 to Jan 2019(Intermittent Input of 9 months) ; Location: Various Districts of Nepal; Client: Government of Nepal, Department of Road; Main Project Features: Detailed Engineering Survey Design of Road and Report Preparation of following Road Project • Detailed Engineering Survey Design of Road and Report Preparation of Aryabhanjyang – Rampur Road, Pulpa (42 Km), Contract Package No. : PMEU/337159/02/73 DPR -6, Construction Cost: 1260 Million. • Detailed Engineering Survey, DCP Test, Detailed Design and Preparation of DPR of 148 Km of roads as follows. Contract Package No. : 11/DPR/337123 ,1. - Khutiya BP Nagar Gadshera Dipayal Road, Kanchanpur, Dadeldhura (86.430Km), Construction Cost: 2592 Million

- Patan-Pancheswor (Saloon Sector), Butadi (61.505Km), Construction Cost:1845 Million
- Detailed Engineering Survey, Design, Drawing and Preparation of Detail Project Report (DPR) of **Kudu-Jagatipur-Karkigam-Jhapra-Thalaha Gad Road of Mid Hill Highway, Jajarkot(52 Km) C.N. MIDHI.DNG/3371384/072/073-DPR-03** C/L 0+000 to 52+000 km. Construction Cost:2600 Million
- Detailed Engineering Survey Design of Road and Report Preparation of 96.5 Km Road as follows. Contract Package No. : PME/J/337159/074/75 DPR-8
 - Bheri Corridor (Jajarkot Dunc Marim Tloje Dha Road), Dolpa (65 Km), Construction Cost:3250 Million
 - Kapurkot–Jinabang – Rank – Rukum Road, Rukum (31.50 Km), Construction Cost:1260 Million
- Detailed Engineering Survey, Design of Road and Report Preparation (DPR) of **Rawatkot-Dullu-Paduka-Jambukad-Ramghat Road Section (30.129Km)** of Mid Hill Highway Package no. : MHHP/3371384/207(-2072/DLS & D-07, Construction Cost:2109 Million

Activities Performed: Hydrological study and analysis using HEC RAS, determination of design criteria of Cross Drainage Structures, Road Side Drain and Slope Stability of different roads projects as mentioned above.

4) Name of Assignment or Project: Detailed Engineering design, Tender Documents, Preparation, construction supervision & Contract management of Access road of Upper Arun Hydroelectric Project(Phase I); Year: January 2018 to October 2018 (Intermittent Input of 8 months); **Location:** Sankhuwasabha district; **Client:** Nepal Electricity Authority/ Kyung Dong Engineering Co. Ltd., South Korea/ **International Consultant**); **Main Project Features:** Detailed Engineering design, Tender Documents, Preparation, construction supervision & Contract management of Access road of Upper Arun Hydroelectric Project(Phase I); **Position Held:** Senior Hydrologist.; **Activities Performed:** Technically Responsible for Bridge Site Selection, Span Arrangement, Hydrological and Hydraulic Analysis (fixing of HFL and Scour Depth using HEC RAS) of responsible as Hydrologist for 3 no. of Bridge in Arun River and Assist Team leader for Detailed Inventory list of drainage requirement in road alignment, hydrological analysis of X drainage works, Culvert, Longitudinal drain, Cause Way etc. Detailed Quantity Calculation, Preparation of Cost Estimate and Report Preparation of Access Road Project.

(5) Name of Assignment or Project: Bridge support consultant (Hydrologist) funded by **World Bank**; **Year:** December 2013 to July 2017; **Location:** Various Locations in Nepal; **Client:** Department of Roads, Bridge Branch; **Main Project Features:** Government of Nepal (GoN) implemented a Bridge Improvement and Maintenance Program (BIMP) after signing an agreement with the International Development Association (World Bank) in June 2012 for a credit of US\$60 million. The BIMP will use the World Bank's new lending instrument known as „Program for Results or P for R which ties disbursements to results achieved. Key results envisaged from the BIMP include: (i) completing approximately 12,175 meters of major bridge maintenance; (ii) completing approximately 3,500 meters of minor bridge maintenance; (iii) completing approximately 6,000 meters of new bridge construction; (iv) achieving measurable progress against several institutional development indicators through the Ministry of Physical Planning, Works & Transportation Management (MoPPWTM) and Department of Roads (DoR); **Position Held:** Senior Hydrologist.; **Activities Performed:** Overall responsible for render technical expertise in Hydrology of feasibility study, design, construction contracts, review of design, in construction, and contract management, and transfer of technology to DoR staff through on the job interaction, critical review of the bridge design particularly calculation of catchment area of the river up to bridge site, scour depth, silt factor used, fixing of HFL and Scour Depth using HEC RAS, low water level, lowest bed level, establishing wetted parameter, maximum discharge/peak discharge (considering over a period of 100 years) and establish flow velocity back water effect and river training works requirement etc. Defining free board available and level of soffit of bridge deck, assessing effect of existing bridge or other hydraulic structures across the river in the vicinity of the proposed bridge site with their details as much as possible, Review hydrometric survey data and assessing possible shift of the river in the past at proposed bridge site and in its vicinity and proposing adequate measures for future probable shift, Making adequate site visit for review of hydrological issues and fact finding and resolving site problems particularly bridges built on “Design and Build “Concept and Deliver training required on hydrology including river hydraulics, hydraulic design, and river works and scour protection and other hydrological issues as per program set by the Bridge Branch, Hydrological Review of 350 nos. of bridge sub projects.

(6) Name of Assignment or Project: Secondary Towns Integrated Urban Environment Improvement Project (STUEIP) funded by ADB; **Year:** May 2013 to December 2013; **Location:** Butwal Municipality; **Client:** Project Implementation Unit (PIU), Butwal Municipality; **Main Project Features:** The Project will implement urban environmental improvement on an integrated basis, in the areas including sewerage and drainage, solid waste, and urban roads and lanes in the Butwal Municipality. It also includes community development programs such as awareness-raising on health and hygiene and 3R (reduce, reuse, and recycle), and investment in small-scale community facilities in these project municipalities, and will strengthen capacity of the municipality for project management and operation. **Position Held:** Senior Hydrologist; **Activities Performed:** Hydrological analysis of urban drain and its design and assist sizing of treatment plant of solid waste.

(7) Name of Assignment or Project: Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of Various bridge(s); **Year:** March 2011 to May 2011; **Location:** Various Districts of Nepal; **Client:** Government of Nepal.; **Main Project Features:** Detail Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge; **Position Held:** Hydrologist/Project Coordinator; **Activities Performed:** Technically

Responsible for Bridge Site Selection, Span Arrangement, Hydrological and Hydraulic Analysis (fixing of HFL and Secor Depth using HEC RAS) of responsible as Hydrologist for followings motorable Bridges.

Year October 2012 to February 2013:

- RCC T-girder Nala-1 Bridge along Kalyanpur-Barsain-Subarnapatti (16 m span)
- Bridge over Nala-2 Bridge along Kalyanpur-Barsain Subarnapatti (16 m span) in Saptari, Client DoR, Postal Highway. Bridge Project

Year February 2012 to August 2012:

- RCC T-girder over Main Khola Bridge 50m span in Syangja district
- Steel Truss (36m single span) over arighat along Jumla Rajmarg, Client DoR, Bridge Project

Year March 2011 to January 2012:

- RCC T-Girder Bridge over Dangraha Khola (50 m span) in Morang district and
- RCC T-Girder Bridge Lehar (50 m span) and Dama (25 m span) khola in Dailekh District Client: DDC Morang, DDC Dailekh

(8) **Name of Assignment or Project:** Urban and Environmental Improvement Project funded by ADB; **Years:** September 2009 to February 2011; **Location:** Kathmandu; **Client:** Project Implementation Unit (PIU), Ratnanagar Municipality; **Main Project Features:** Implementation of sewerage and drainage system including treatment plants in Ratnanagar Municipality **Position Held:** Civil Engineer; **Activities Performed:** Assist team leader in project related works for all sub projects in project office in Kathmandu such as compilation of documents, checking contractors as built drawings, preparation of Completion Report of sub projects including periodic site visit

12. Certification:

I, the undersigned, certify to the best of my knowledge and belief that

(i) This CV correctly describes my qualifications and experience;

(ii) I am not a current employee of the Executing or the Implementing Agency;

(iii) In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in Form TECH-6 provided team mobilization takes place within the validity of this proposal;

(iv) I was not part of the team who wrote the terms of reference for this consulting services assignment;

(v) I am not currently debarred by a multilateral development bank or temporarily suspended by ADB;



[Signature of Expert]

Date: 15 / 07 / 2021
Day / Month / Year

Full name of Expert

Sanjay Adhikari

प्रारम्भिक वातावरणीय परिक्षण प्रक्रियामा संलग्न अध्ययन टोली सदस्यको स्वःघोषणा

प्रतिवेदनको मुख्य शीर्षक: बुटवल -गोरखिगे (५.७ कि मी) सडकखण्डको स्तरोन्नति

प्रस्तावकको नाम: आयोजना निर्देशनालय (ए.डी.वी), सडक विभाग

ठेगाना: विशालनगर, काठमाण्डौ

फोन नं: ०१-४४३३४९२, ४४३३४९३

फ्याक्स नं: ४४३३४८८

इमेल: pdadb@wlink.com.np

म निम्न घोषणा गर्दछु

- म यत आयोजनको वातावरणीय प्रभाव मूल्यांकन अध्ययन प्रतिवेदनमा संलग्न छु ।
- मैले यो अध्ययन स्वीकार्य अध्ययन विधि प्रयोग गरि तयार गरेको छु ।
- यस प्रतिवेदनमा समावेश गरिएको विवरणहरू सत्य र सही रहेका छन् ।
- मैले यस प्रतिवेदनमा समावेश भौतिक, जैविक, सानाजिक तथा आर्थिक वातावरणीय विवरण तथा सामग्रीको अध्ययन र जाँच गरेको छु ।
- म संलग्न यस आयोजनको वातावरणीय अध्ययनसँग सम्बन्धित प्रतिवेदनमा समावेश कुनै पनि आसक्त जानकारी वा विवरणको म नैतिक तथा कानूनी जवाफदेहीता वहन गर्दछु ।
- माथि बुझी नम्बर १ मा उल्लेखित अध्ययन कार्यको सिलसिलामा प्रस्तावित आयोजना क्षेत्रमा मिति डिसेम्बर २०२१ देखि मार्च २०२२ सम्म म स्वयम् उपस्थित भै तथ्यांक संकलन गरेको घोषणा गर्दछु ।
- यो अध्ययन प्रतिवेदनमा बौद्धिक चोरी लगायत कार्यको जिम्मेवारी वहन गर्दछु ।

दस्तखत:

परामर्शदाता संस्थाको छाप:

त्रिपुल विज्ञ रादस्वको नाम, थर: **सरोज भट्टराई**

गुल विज्ञ

मिति: २०७९/१/२९



CURRICULUM VITAE (CV)

Position Title and No.		Sr. Bridge Design Engineer	
Name of Expert		Saroj B. A. JARAI	
Date of Birth (day/month/year)		19/12/1964	
Country of Citizenship/Residence		Nepal	
Education & Training			
1997 - 1999	M. Sc in Structural Engineering, Tribhuvan University, Institute of Engineering, Nepal		
1985 - 1990	M. Eng in Highway Engineering (Integrated Bachelor and Master Degree), Kharkov Automobile and Highway Engineering Institute, Ukraine		
10/2010 (2 weeks)	Technical Training and Exposure Visit on Public Private Partnership for Elevated Road Project, Asian Institute of Technology (AIT), Thailand		
05/2018 (2 weeks)	Training on Bridge Diagnostics, Performance Evaluation, and Monitoring, Asian Institute of Technology (AIT), Thailand		
02/2006 (1 week)	Training on Procurement and Contract Management, Nepal Administrative Staff College, Nepal		
05/2005 (5 weeks)	Professional Course on Management and Development, Nepal Administrative Staff College, Nepal		
06/2005 (1 week)	Computer Aided Analysis and Design of RC T-Order Bridges (SAP2000), jointly organized by ACECOWS, AIT Thailand and Tribhuvan University		
10/1995 (1 week)	Analysis and Design of Bridges, Tribhuvan University, Institute of Engineering University of Calgary, Canada		
08/1995 (2 weeks)	Professional Training in Geographic Information System in Natural Resource Management, jointly Organized by CIMOD and Tribhuvan University, Department of Geography, Nepal		
Employment record relevant to the assignment			
Period	Employing organization and your designation, Contact information and for References	Country	Summary of Activities performed relevant to the Assignment
10/2020 - Present	Soosung Engineering Co. Ltd, South Korea in association with Tech Studio of Engineering and ERMC, Bridge Design Engineer For References: Mr. Sanjeev Regmi Tel: 9851269004 Email: sanjeevregmi2012@gmail.com	Nepal	• Detailed engineering design for four laning of East-West highway project
01/2020 - 07/2020 Same Date?	Moonlight Civil Solutions Bridge Design Engineer For References: Mr. Sabin DC, V.D Tel: 9851784073 Email: dcsabin@gmail.com	Nepal	• Detailed survey and Design of various bridges
August 2019 (Intermittent job contract)	Multi Disciplinary Consultants (P) Ltd, Bridge Design Engineer For References: Mr. Vijay Chappagain, Project Manager of Mid-Hill Highway	Nepal	• Detailed design of 30m prestressed concrete and 2.7m, Double Lane RCC bridges
05/2019 (Intermittent Input)	SMEC-MWH JV Independent Bridge Engineer For references: Mr. Sany Pradhan Tel: (+277) 9811 289558	Nepal	• Detailed design of Nalgas Khola bridge for Nalgas Hydropower project
04/2019 - 12/2019 Intermittent input of 6 month	Department of Urban Development and Building Construction Consultant Bridge Engineer For references: Mr. Roshan Shrestha, Project Coordinator	Nepal	• Overseeing and monitoring of the bridge design works carried out by the DPR consultants.

03/2019 (Lump Sum Contract)	To: (+977 1) 4216183 Moonlight Civil Solutions (P) Ltd, Bhaktapur Bridge Engineer For references: Mr. Sabin DC, MD Tel: 9821751075. Email: dcssabin@gmail.com	Nepal	Structural analysis and detailed design of the Bridges
01/2018 - 02/2019	Soosung in association with Tech Studio of Engineering Bridge/Structural Engineer For references: Mr. Sanjeev Regmi Tel: 9851039001 Email: sanjeevregmi2012@gmail.com	Nepal	Preparation of typical design for Detailed Project Report of Fast Track (Expressway) Project.
04/2018 - 09/2018	SPEC, OMEC and SITL Consultant in association With TSE Bridge/Structural Engineer For references: Mr. Sanjeev Regmi Tel: 9851039001 Email: sanjeevregmi2012@gmail.com	Nepal	Structural Analysis and Design of three Flyover crossing over railway track along Lamahi-Kulaur Sector
01/2018 - 03/2018	Hifab International AB, Sweden JV with BCL Associate Ltd, Bangladesh In Association with FBC/SILT/ERMC Nepal Bridge/Structural Engineer For references: Mr. Hem Nidhi Sharma. Tel: (+977 1) 4453064 Email: hemnidhi@gmail.com	Nepal	Structural Analysis and Design of Viaduct along Butwal – Pokhara Road
05/2017 - 10/2017	Material test P Ltd and JV of Rasuwa Kalika Covac Bridge/Structural Engineer For references: Mr. Madhuskar Karki Tel: (+977 1) 4455092 Email: mtest2063@gmail.com	Nepal	Design of 42 number of bridge along Dharan – Chetara-Katari-Rhimar Road; Hilly and Terai Area;
01/2018 - 04/2017 (12 months)	JV of MMM Group, Canada, ITECO Nepal & Material Test P. Ltd Bridge/Structural Engineer For references: Mr. Tuk Lal Adhikari Tel: (+977) 9851075836 Email: tuklal@gmail.com	Nepal	Detailed Design of 21 number of bridges for Upgrading of MRM (Butwal-Narayanghadh, Kamala-Koshi sectors), Bishrahaawa – Lumini-Tatihawa Road and Prithvi Highway (Muglin-Pokhara sector) to bituminous four lane Highway.
01/2016 - 04/2017 (Intermittent 4 Var-month)	Tech Studio of Engineering Structural Engineer For references: Mr. Sanjeev Regmi Tel: 9851039001 Email: sanjeevregmi2012@gmail.com	Nepal	Detailed engineering design of retaining walls for the parking bays, intermittent consultation on construction issues for Reinola Aircraft Parking Area for Trichuwar International Airport.
01/2015 - 12/2015	Material Test (P) Ltd.; MEH Consultant (P) Ltd.; Local Roads Bridge Program (LRBP), DOLIDAR; Civil Design and Foundation	Nepal	Responsible for field study, analysis, design of various bridges and their components

	Engineering Consult (P) Ltd. Team Leader Cum Bridge Engineer For references: Mr. Mac tukar Karki Tel: 2801364862 Email: mtest2063@gmail.com		
12/1995 - 01/2015	Department of Roads Senior Divisional Engineer / Engineer / Bridge Engineer For references: Tel: 01-5528075 Email: dgddor@dor.gov.np	Nepal	Planning, management, design and supervision of roads and bridges
08/1995 - 10/1995	Roughton International Resident Engineer For references: Mr. Gyanendra Bataju, Counterpart SDE	Nepal	Supervision, quality control and staff management of Rehabilitation of East-West Highway, Belbari – Pathari section, a DFID (CDA), UK Funded Project. Consultants – Roughton International.
07/1992 - 11/1992	Crown Agent/Kier JV Assistant Resident Engineer For references: Yogendra Kumar Rai, Counterpart SDE	Nepal	Management of Survey Works for Rehabilitation of Prithvi Highway (44KM Hill road) Malekhu-Muglin section. With Crown Agent/Kier JV.
09/1991 - 02/1992	East Consult Pvt. Ltd Civil Engineer For references: Ananta Bahadur Gurung, M/C	Nepal	Inventory survey of suspension bridges all over Bhutan
10/1990 - 09/1991 (12 months)	DIST-ON Consulting Service (P) Ltd. Civil Engineer For references:	Nepal	Responsible for design and supervision of some residential buildings, topographic survey of a hill resort in Dhulikhel and Dumping site at Rankot, Kathmandu

Membership in Professional Associations and Publications

Life Member: Nepal Engineers' Association
Member: Nepal Engineering Council No Civil A 904
Member: Structural Engineers Association (SEANep)
Member: Management Association of Nepal (MAN)

Language Skills

Languages	Speaking	Reading	Writing
English	Good	Good	Good
Hindi	Good	Good	Good
Russian	Good	Good	Good
Nepali	Mother Tongue		

Adequacy for the Assignment

Detailed Tasks Assigned on Consultant's Team of Experts	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks								
- Carryout detailed survey and sub-soil investigations of bridge sites; - Analysis of Bridge; - Design the bridge following the standard codes of practice, norms and guidelines	(1) SASEC Highway Improvement Project (SHIP) <table> <tr> <td>Period</td><td>12/2020 ~ Present</td></tr> <tr> <td>Location</td><td>Teral Region of Province No.1,3 and 5, Nepal</td></tr> <tr> <td>Client</td><td>Department of Roads, ADB Project Directorate</td></tr> <tr> <td>Main Project Features</td><td>Detailed engineering design for four laning of East-West Highway, Kakarbhitta Laikshi, Patariya Gondryang (Jharapur) Butwa-Gonsingra sectors. Total 270 km, 125 bridges</td></tr> </table>	Period	12/2020 ~ Present	Location	Teral Region of Province No.1,3 and 5, Nepal	Client	Department of Roads, ADB Project Directorate	Main Project Features	Detailed engineering design for four laning of East-West Highway, Kakarbhitta Laikshi, Patariya Gondryang (Jharapur) Butwa-Gonsingra sectors. Total 270 km, 125 bridges
Period	12/2020 ~ Present								
Location	Teral Region of Province No.1,3 and 5, Nepal								
Client	Department of Roads, ADB Project Directorate								
Main Project Features	Detailed engineering design for four laning of East-West Highway, Kakarbhitta Laikshi, Patariya Gondryang (Jharapur) Butwa-Gonsingra sectors. Total 270 km, 125 bridges								

- Considering general aesthetics and architectural perspectives of the bridges - Discuss with client about span arrangement and type of bridge and foundation type with alternatives and cost benefit; - Modeling and testing of design; - Produce detailed quantity estimate of the bridge and its accessories; - Prepare rate schedules and cost estimates based on the standard norms prevailing in the district; - Training and Technology transfer.	Positions Held	Bridge Design Engineer	
	Activities Performed	Responsible for coordination with the team member of Consultant. Clients and other stakeholders, detailed engineering survey, the layout survey, inventory survey including pavement condition survey, detailed engineering design, preparation of cost estimate, contract document and construction supervision.	
	(2) Detailed survey and Design of various bridges		
	Period	01/2020 – 07/2020	
	Location	Nepal	
	Client	Local Roads Bridge Program (LRBP)	
	Main Project Features	Detailed engineering design of various bridges	
	Positions Held	Bridge Design Engineer	
	Activities Performed	Detailed design of bridges over: Thana River Rupandesi, 3x30m, twin bridge, Triple lane plus footpath at one side, PSC girder, Pile foundation Parsha Khola, Gulmi, 35m Intermediate lane (6m Carriageway), PSC girder, open foundation Tulbulya Khola, Sanamaina, Rupandesi, 30m, double lane PSC girder, Pile foundation. - Arje Khola, Gulmi, 20m, intermediate lane, RCC, open foundation; - Beshi Khola, Kapilvastu, 25m double lane RCC, pile foundation - Wanti Khola, Kapilvastu, 25m, double lane, RCC, pile foundation - Pake Khola, Pancha, 20m intermediate lane, RCC, open foundation - Chingad Khola bridge, Surkhet 20m double lane, PSC girder, open foundation.	
	(3) Detailed survey and Design of various bridges for Mid Hill Highway		
Period	09/2019 (Independent Job Contract)		
Location	Nepal		
Client	Mid Hill Highway Eastern Sector Department of Roads		
Main Project Features	Design and construction of Mid-hill highway (road, bridges, culverts and other road structures and furniture)		
Positions Held	Bridge Design Engineer		
Activities Performed	Detailed design of 30m pre-stressed concrete and 20m Double Lane RCC bridges over Goudari Khola and Khaharo Khola along Mid hill Highway in Kabhre district		
(4) Detailed design of Nalgad Khola bridge for Nalgad Hydropower project			
Period	05/2019 (1 months Independent Job Contract)	Location	Nepal
Client	Nepal Electricity Authority/SMED-MWH JV in association with Udaya Consultancy (P) Ltd		
Main Project Features	DPR of hydroelectric power project including dam, power house, access road and bridges.		
Positions Held	Independent Bridge Engineer		
Activities Performed	Structural analysis and detailed design of Nalgad Khola Bridge (35m pre-stressed girder bridge) along the access road		
(5) World Bank funded Urban Governance and Infrastructure Improvement Project (UGIIP)			
Period	04/2019 – 12/2019 (9 months intermittent input)	Location	Nepal
Client	Department of Urban Development and Building Construction		
Main Project Features	Project for improvement of urban governance including transport infrastructure in 16 municipalities.		
Positions Held	Consultant Bridge Design Engineer		
Activities Performed	Overall monitoring of the bridge design works carried out by the DPR consultants.		
(6) Detailed Design of Bridges over Butahar Nala, Bardia; Ghorahi Nala, Kapilvastu; Pachpheda river, Pratappur, Kapilvastu; Sigaha river, Ratanpur, Nawalparasi			
Period	03/2019 – 04/2019 (Lump sum contract)	Location	Nepal
Client	GON / Moonlight Civil Solution (P) Ltd		
Main Project Features	Detailed design of 4 bridges: Butahar Nala, 30m pre-stressed girder bridge with pile foundation; Ghorahi Nala, 25m RCC bridge with pile foundation; Pachpheda river, 75m (3x25), RCC bridge with pile foundation; Ratanpur Sigaha, 25m RCC bridge with pile foundation.		
Positions Held	Team leader/Bridge Design Engineer		
Activities Performed	Structural analysis and detailed design of the bridges		

(7) Preparation of Detailed Project Report of Fast Track (Expressway) Project			
Period	11/2019 – 02/2019 (3 months)	Location	Nepal
Client	Nepali Army/International Consultant: SOOSUNG Engineering Co. Korea		
Main Project Features	DPR of the fast track, Alignment survey, preliminary design of road, tunnels, slope protection works, road furniture, bridges and culverts, economic analysis etc.		
Positions Held	Bridge Design Engineer		
Activities Performed	In association with expatriate bridge engineer review of existing reports; identification of bridge locations; suggestion on bridge type and assessment of lengths, span arrangement; preliminary design of the bridges; preparation of typical designs and cost estimate. Preliminary design of 49 major (span length more than 25m) and 22 minor bridges (span length up to 25m) with PSC and RCC superstructure; open/pile foundations.		
(8) Mechi-Mahakali Railway (Lamahi-Kohalpur sector)			
Period	04/2018 – 09/2018 (5 months)	Location	Nepal
Client	Department of Railways/International Consultant: FSDI, China JV with PEC, DMEC Korea		
Main Project Features	Preparation of Detailed Project Report of Lamahi-Kohalpur Sector of Mechi-Mahakali Railway Line.		
Positions Held	Bridge/Structural Engineer		
Activities Performed	Responsible for Structural Analysis and Design of three Flyover crossing over railway track.		
(9) World Bank funded Butawal-Pokhara Road			
Period	01/2018 – 03/2018 (2 months)	Location	Nepal
Client	Department of Roads/International Consultant: Hifab International AB, Sweden JV with BCL		
Main Project Features	Feasibility Study and Detailed Design of upgrading of Butawal-Pokhara Road (double lane bit. minus)		
Positions Held	Bridge/Structural Engineer		
Activities Performed	Responsible for Structural Analysis and Design of Viaduct Study of Road, ADB Grant No. 0227 – NEP.		
(10) Bridges along Dharan-Chatara-Katari-Bhiman road			
Period	05/2017 – 10/2017 (5 months)	Location	Nepal
Client	Department of Roads		
Main Project Features	Design of 42 number of bridge along double lane Dharan-Chatara-Katari-Bhiman Road (Hilly and Tara Area).		
Positions Held	Bridge/Structural Engineer		
Activities Performed	Responsible for detailed design of substructures, foundations and river training works of bridges for pre-designed superstructures, as follows: Bhiman Khola, L=100 m, (2 x 50 m spans, double lane); Korung Khola, L=150 m, (3 x 50 m spans, major bridge, double lane); Araha Khola, L=50 m, (1 x 50 m spans); Saranath Khola, L=25 m, (1 x 25 m spans); Basse Khola, L=50 m, (1 x 50 m spans); Sunkhani Khola, L=100 m, (2 x 50 m spans, double lane); Pyathan Khola, L=30 m, (1 x 30 m spans); Chhikhi Khola, L=50 m, (3 x 50 m spans, double lane); Dholi Khola, L=40 m, (1 x 40 m spans); Gaganjhar Khola, L=40 m, (1 x 40 m spans); Bichhi Khola, L=40 m, (1 x 40 m spans); Tamorani Khola, L=40 m, (1 x 40 m spans); Thakur Khola 1, L=100 m, (2 x 50 m spans, major bridge, double lane); Thakur Khola 2, L=40 m, (1 x 40 m spans); Thakur Khola 3, L=50 m, (2 x 40 m spans); Thakur Khola 4, L=40 m, (1 x 40 m spans); Kuluwa Khola, L=50 m, (1 x 50 m spans); Balika Bridge, L=40 m, (2 x 40 m spans); Chioraul Khola, L=25 m, (1 x 25 m spans); Karna Khola, L=40 m, (1 x 40 m spans); Kamara Khola, L=25 m, (1 x 25 m spans); Dhudhau Khola, L=30 m, (1 x 30 m spans); Chauri Khola, L=50 m, (1 x 50 m spans); Ratu Khola, L=50 m, (2 x 40 m spans); Dule Khola, L=40 m, (1 x 40 m spans); Dang Dung Khola, L=100 m, (2 x 50 m spans, major bridge, double lane); Saguri Khola, L=80 m, (2 x 40 m spans); Goruwa Khola, L=50 m, (1 x 50 m spans); Bajaurath Khola-1, L=50 m, (2 x 40 m spans); Bajaurath Khola-2, L=100 m, (2 x 50 m spans, major bridge, double lane); Kawai-2 Khola, L=25 m, (1 x 25 m spans); Halse Khola, L=25 m, (1 x 25 m spans); Saraswati Khola, L=40 m, (2 x 40 m spans); Sahi Khola, L=120 m, (3 x 40 m spans, double lane); Brajpur Khola, L=25 m, (1 x 25 m spans); Deodhar Khola, L=25 m, (1 x 25 m spans); Lati Bhuka Khola, L=40 m, (1 x 40 m spans); Kali Khola, L=40 m, (2 x 40 m spans); Kaure Khola, L=50 m, (1 x 50 m spans); Patnai Khola, L=40 m, (1 x 40 m spans); Saru Khola, L=250 m, (5 x 50 m spans, major bridge, double lane); Thakur Khola, L=25 m, (1 x 25 m spans). (32 nos. of bridges are Open foundation and 10 nos. of bridges are Pile Foundation).		
(11) ADB funded upgrading of Highway (Butwal-Narayanganhat) to 4 Lane (SASEC-TPPF/PPC2)			
Period	01/2018 – 04/2017 (12 months)	Location	Nepal
Client	ADB Directorate/Department of Road		
Main Project Features	Upgrading of M/RM (Butwa-Narayanganhat, Karnali-Koshi sectors), Bhairahawa-Lumbini-Taulihawa Road and Prithvi highway (Muglin-Pokhara sector) to bituminous four lane highway. Detailed engineering design of road, road furniture, bridges and culverts, EIA, economic analysis and preparation of contract documents.		
Positions Held	Structural/Bridge Design Engineer		
Activities Performed	Detailed engineering design of 21 number of bridges including multi-span Composite deck with precast prestressed (post-tensioned) girders and cast in situ deck, Pile foundation; Typed designs of minor bridges; Detailed typed design of six types of precast pre-stressed (pre-tensioned) box girder composite superstructure for 55 bridges along MRM (Karnali-Koshi sector); Type designs for 15m, 16m, 21m, 24m,		

	25m, 33m box girders; Detailed Design of post-tensioned girder bridge superstructures for 8 bridges along Muglin-Pokhara sector of Prithvi highway. Type designs for 24m, 25m, 33m spans composite PSC-PT girders and cast-in-situ deck slab, pile foundation over Names of the bridges: Boldiya Bridge, 33m PSC deck, pile foundation Jayashree Bridge, 33m PSC deck, pile foundation, Lokaha Bridge, 33m PSC deck, pile foundation, Mukunda Bridge, 33m PSC deck, pile foundation, Pathar Khola bridge, 33m PSC deck, pile foundation, Rohini bridge, 33m PSC deck, pile foundation, Sonmati Bridge, 2x33m PSC deck, pile foundation, Tanya Bridge, 2x33m PSC deck, pile foundation, Basiaha Khola bridge, 2x33m PSC deck, pile foundation, Bhalutahi Bridge, 2x33m PSC deck, pile foundation, Bhaluti Bridge, 2x33m PSC deck, pile foundation, Bhuman Bridge, 2x33m PSC deck, pile foundation, Ghodaha Bridge, 2x33m PSC deck, pile foundation, Girwari Bridge, L=188 m, (2x28+4x33m PSC deck major bridge, 4 lane, pile foundation), Anur Khola bridge, L=244 m (8x28m PSC deck, pile foundation, 4 lane), Bnai Khola bridge, L=254m (2x28+6x33m PSC deck, pile foundation, 4 lane), Jharahi bridge, L=100 m (4x25m RCC deck, pile foundation, 4 lane), Jyamira Khola bridge, 3x16m RCC deck, pile foundation, Kacharar Bridge, 5x16m RCC deck, pile foundation, Kawasoti bridge, L=104m 94x25m RCC deck, pile foundation, 4 lane), Sukhaura Bridge, 1x26m RCC deck, pile foundation.
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(12) Remote Aircraft Parking Project, Tribhuvan International Airport			
Period	01/2016 ~ 04/2017 (intermittent: 4 Man month)	Location	Nepal
Client	Civil Aviation Authority, Nepal		
Main Project Features	Construction of two separate parking bays for light domestic aircrafts and international large aircrafts		
Positions Held	Structural Engineer		
Activities Performed	Detailed engineering design of retaining walls for the parking bays, intermittent consultation on construction issues.		

(13) Various Bridge Projects			
Period	01/2015 ~ 12/2015 (11 months)	Location	Nepal
Client	(i) DOR (ii) DOR (iii) LRBP (iv) DOLIDAR		
Main Project Features	(i) Analysis of truss with intermediate support, design of supporting truss for replacement of damaged elements of the 80 m truss bridge over Marsyangdi River, Bhotenar (Hilly Area) (ii) Design of Network Arch Bridge superstructure across Dhobikhola with steel / concrete arch and hangers, pre-stressed concrete deck. Span 50 m (iii) Preliminary survey of bridges along local roads for LRBP on contract with Material Test (P) Ltd.. Three bridges in Kaski/Lamjung districts (Kshahara, Kharpani and Pasho Khola) Jan. 2015 Four bridges in Jhapa district (Dhyangri, Ratuwa, Gauria-1 and Gauria-2). March 2015. 14 bridges: Badara, Buldi, Suradi, Chudi-1, Chudi-2 at Tanahun; Sapan Tirtha, Balkhu-1, Balkhu-2 at Kailash district; Niche and Tilpu at Lalitpur district Hanumante, Mahadev, Chakhu and Charkhandi bridge at Bhaktapur district. June-July 201 (iv) review, analysis, redesign and recommendation for standard (typical) bridge superstructure decks: 6 types of RCC single lane T-girder and 8 types of single and double steel composite plate girder decks for Local Roads Bridge Support Unit (LRBSU), DOLIDAR.		
Positions Held	Bridge/Structural Engineer		
Activities Performed	Responsible for field study, analysis, design of bridges and their components.		

(14) Banepa – Sindhuli - Bardibas Road Project (160 Km Hill Road and Terai Asphalt Concrete Road 8cm to 15cm thickness) Road and Bridges funded by JICA			
Period	11/2013 ~ 01/2015 (14 months)	Location	Nepal
Client	DoR and Bridge Project		
Main Project Features	Detailed design and construction of 160KM Hill Road and Terai Asphalt Concrete Road, Detailed Engineering Survey, Soil Investigation, Hydrological Study & Detailed Design of the Bridges (RCC, Pre-stress, Steel Truss Composite Bridges and Road Project).		
Positions Held	Senior Divisional Engineer		
Activities Performed	Responsible for final inspection of completed Six Bridges: Gwang Khola Steel Truss Bridge (45m span) Sindhuli, Gangate RCC Bridge (80m span), Anderi RCC Bridge cum Causeway (110m span), Kshahara RCC Bridge (45m span), Sanchi RCC Bridge (75m span), Dhamila Khola RCC Bridge (45m span) (17m span to 110m span RCC Bridges & 17 Causeway along Sindhuli – Bardibas Road, ICB Contractor all site clearance, preparation of Final As Built Drawings and Project Completion Report.		

(15) ADB funded Kathmandu Sustainable Urban Transport Project			
Period	09/2012 ~ 10/2013 (14 Months)	Location	Nepal
Client	Department of Roads		
Main Project Features	Design and Construction of 3 bridges (Length 15m, 50m, 90m) along Bishnumali river, construction of 4 lane road from Balkhu to Toku (South extension of Bishnumali Link Road), Improvement of intersection in Kathmandu city and installation of coordinated traffic signal system.		
Positions Held	Project Manager		
Activities Performed	Responsible for carrying out design, procurement work and construction supervision of bridges and river		

	Training works		
(16) Hulaki Rajmarga Bridge Project			
Period	01/2000 – 08/2012 (43 months)	Location	Nepal
Client	Department of Roads		
Main Project Features	Implementation of around 115 bridges within the 1450 km road network to be developed in the southern part of Nepal. Some of major bridges are: (i) 580 m long Machi river bridge with 35 m long pre-stressed decks (Major Bridge, double lane); (ii) 832 m long Bagmati bridge with 30 m long pre-stressed decks, double lane (Major Bridge); (iii) 350 m Shikaribas bridge and 250 m long Auriya bridge under Design & Build contract (Major Bridge, double lane); (iv) 700 m long Kankai Bridge with 40 m span pre-stressed decks under Design & Build Contract (Major Bridge, double lane); (v) 500 m Kamali (Rajapur/Satighat) bridge with 40 m pre-stressed decks under Design and Build contract (Major Bridge, double lane); (vi) 450 m long Kamaa Bridge under Design and Build contract (Major Bridge, double lane); (vii) Other 40 bridges with various lengths and types.		
Positions Held	<u>Senior Divisional Engineer/Bridge Design Engineer</u>		
Activities Performed	Responsible for procurement of design, detailed design and procurement of construction works, construction supervision of bridges and river training works.		
(17) Survey, Design and Construction Supervision of Various Bridges			
Period	01/2003 ~ 12/2008 (72 months)	Location	Nepal
Client	Bridge Unit/Department of Roads		
Main Project Features	Survey, Design and Construction of Bridges all over the Nepal. Some of them are Bagmati River RCC T-girder bridge along Gairgaur Jagatnagar Road at Kathmandu (Length 40m), Lkhu Khola Steel Truss bridge along Ramechhap-Okhakthurga Road at Ramechhap (Length 52m), Karmare Bagaicha RCC bridge along Murali Bhandaryang 2 - Sunaula Bazar - Karmare Bagaicha Road at Dhading, Sauri Khola RCC T-girder bridge along Anshi Highway Road at Sunsari, (Length 45.8), Chakra Khola RCC bridge along Babiyas Birta Road at Morang (Length 40.5m), Bagmati River bridge along Dandni Road at Kathmandu, Gogawari Khola bridge along at Bishnudo VDC Ward No. 8 Lalitpur, Dhodina khola Steel Bridge along Baglung-Beri -Jomsom Road (Length 24m), Ratu Khola Steel Bridge along Baglung-Beri -Jomsom Road, Bag Khola Bridge along Baglung-Beri -Jomsom Road, (Length 21m), Aandhi Khola Bridge, Bayanghari, Syarja, Sauri River bridge along Lamachaur -Manja Road, Soli River Bridge, Dukgaunda -Janatu (L=53.5), Ridi Khola Bridge, Sakhar Palpa Siddheswar, (Length 93m), Blehrumati Bridge (Kankeshwar -S) Kathmandu, Lapsolodi Sa Nadi Bridge-Kathmandu (Length 25m), Gishnumati Bridge (Sarakshuttac, Nayabazaar to Chamali Road)-Kathmandu, Manmati Khola Bridge-Kathmandu (Length 25 m), Ghattekhola Bridge-Kathmandu, Marohara Khola Bridge (Inrayani-Chagunaryan)-Kathmandu, Lalitpur, Mountainous Area (Length 52.1m), Bagmati Bridge (Road-Jauwalakhel to Bungmat)- Lalitpur, Bagmati Bridge Patan-Gmori-Lalitpur, Bhakhi Khola Bridge, Paraha Bridge connecting Ghadichasp-Bankhu-Kavre, Bridge on Luvu-Gapa Road-Kavre, Chauri Khola Bridge (Chauri-Galpa Road)-Kavre, Mountainous Area, Bhore Khola Bridge (Tamaokahi-Bhorlekhanda to Sauri of Dolkha)-Dolkha, Khairanigrahi Bridge (Sunkoshi River)-Ramechhap, (Length 100 m), Taadikhola Chikunae Bridge-Virakot, Mountainous Area (Length 67m), Melamchi Nadi Bridge connecting Melamchiard Gurwarhaur-Sirdhupaalchowk, Balefikhola Bridge along Kubindae & Fulpingdada-Sirdhupaalchowk, Chaskilla -Chauri (Budhasaini) Bridge.		
Positions Held	<u>Sr. Divisional Engineer/Bridge Design Engineer</u>		
Activities Performed	Responsible for engineering survey, detailed structural design of bridges & its elements, procurement of contracts & construction supervision of above mentioned bridges including approach roads & river training works.		
(18) Division Road Office, Kathmandu, Nepal			
Period	01/2000 – 01/2003 (28 months), 01/1998 – 11/1997 (13 months)	Location	Nepal
Client	Bridge Project, Department of Roads		
Main Project Features	Construction and maintenance of city roads and bridges. Planning, budgeting, procurement and supervision of works, staff and office management.		
Positions Held	<u>Resident Engineer</u>		
Activities Performed	Responsible for checking designs of bridges from the consultants, providing support to the Division Road Offices on bridge related matters.		
(19) Feasibility Study of Kathmandu – Naubise Alternate Road (40 Km Hill Road) / Funded by JICA			
Period	04/2000 – 10/2000 (7 months)	Location	Nepal
Client	DOE / JICA		
Main Project Features	Feasibility Study of Road		
Positions Held	<u>Counterpart Engineer</u>		
Activities Performed	Responsible for supervision and coordination of the works		

(20) Priority Invest Plan (PIP) project, a 10 years master plan for road network by World Bank funded			
Period	12/1995 – 10/1996 (11 months)	Location	Nepal
Client	Department of Roads (DoR)		
Main Project Features	Priority Invest Plan (PIP) project, a 10 years master plan for road network.		
Positions Held	<u>Team Member Engineer</u>		
Activities Performed	World Bank-funded Priority Invest Plan (PIP) project, a 10 years master plan for road network. Main consultants - Witbur Smith Associates USA. Responsible for analysis of the road transport network, development of procedure for costing of new construction and upgrading of roads.		
(21) Rehabilitation of a 15 km sector (Belhari-Pathari) in East-West Highway Project / Funded by DFID, UK			
Period	08/1995 – 10/1995 (3 months)	Location	Nepal
Client	Department of Roads (DoR) / Roughlin International, UK		
Main Project Features	Road Rehabilitation supervision, quality control and staff management works.		
Positions Held	<u>Resident Engineer</u>		
Activities Performed	Rehabilitation of East-West Highway, Belhari - Pathari section a DFID (ODA), UK funded project. Consultants - Roughlin International. Responsible for supervision, quality control and staff management of the project.		
(22) Rehabilitation of Prithvi Highway (44 Km Hill road), Malekhu-Muglin section / Funded by ODA, UK			
Period	07/1992 – 11/1992 (5 months)	Location	Nepal
Client	Department of Roads		
Main Project Features	Rehabilitation and management of survey works.		
Positions Held	<u>Assistant Resident Engineer</u>		
Activities Performed	Rehabilitation of Prithvi Highway (44 km Hill road), Malekhu-Muglin section, with Crown Agent Kier JV. Responsible for management of survey works.		
(23) Inventory survey of suspension bridges all over Bhutan			
Period	09/1991 – 02/1992 (6 months)	Location	Bhutan
Client	Royal Government of Bhutan with assistance from HELVETAS Bhutan / EAST Consult (P) Ltd., Nepal		
Main Project Features	Inventory survey of suspension bridges all over Bhutan		
Positions Held	<u>Civil Engineer</u>		
Activities Performed	Inventory survey of suspension bridges all over Bhutan.		
(24) Dhulikhel and Dumping site at Ramkot, Kathmandu			
Period	10/1990 – 05/1991 (7 months)	Location	Dhulikhel, Nepal
Client	Dhulikhel Resort		
Main Project Features	Design and supervision of some residential buildings, topographic survey of a hill resort in Dhulikhel and Dumping site.		
Positions Held	<u>Civil Engineer</u>		
Activities Performed	Responsible for design and supervision of some residential buildings, topographic survey of a hill resort in Dhulikhel and Dumping site at Ramkot, Kathmandu, employer by DIST-ON Consulting Service (P) Ltd.		

Expert's contact information: (e-mail: samj114@yahoo.com, phone: 985-104-3290;

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and am available, as and when necessary, to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Bank.

Saroj BHATTARAI
Name of expert



Signature

15/07/2021
Date

प्रारम्भिक वातावरणीय परिक्षण प्रक्रियामा संलग्न अध्ययन टोली सदस्यको स्वघोषणा

प्रतिवेदनको मुख्य शीर्षक: ब्रुटवल -गोर्खसिन्धु (२० कि. मी।) सडकखण्डको स्तरोन्नति

प्रस्तावकको नाम: आयोजना निर्देशनालय (ए.डी.सी), सडक विभाग

ठेगाना: बिहालनगर, काठमाण्डौ

फोन नं: ०१-४४३७४९२, ४४३७४९३

फ्याक्स नं: ४४३७४८८

इमेल: pdadb@wlink.com.np

म निम्न घोषणा गर्दछु।

- म यस आयोजनाको वातावरणीय प्रभाव मूल्यांकन अध्ययन प्रतिवेदनमा संलग्न छु।
- मैले यो अध्ययन स्वीकार्य अध्ययन विधि प्रयोग गरे, तयार गरेको छु।
- यस प्रतिवेदनमा समावेश गरिएको विवरणहरू सत्य र सही रहेका छन्।
- मैले यस प्रतिवेदनमा समावेश भौतिक, जैविक, सामाजिक तथा आर्थिक वातावरणीय विवरण तथा सामग्रीको अध्ययन र जाँच गरेको छु।
- म संलग्न यस आयोजनाको वातावरणीय अध्ययनसँग सम्बन्धित प्रतिवेदनमा समावेश कुनै पनि भ्रामक जानकारी वा विवरणको म नैतिक तथा कानूनी जवाफदेहीता वहन गर्दछु।
- माथि बुर्दा नम्बर १ मा उल्लेखित अध्ययन कार्यको सिलसिलामा प्रस्तावित आयोजना क्षेत्रमा मिति डिसेम्बर २०२१ देखि मार्च २०२२ सम्म म त्वरित उपस्थित भै तथ्यांक संकलन गरेको घोषणा गर्दछु।
- यो अध्ययन प्रतिवेदनमा बौद्धिक चोरी लगायत कार्यको जिम्मेवारी बहन गर्दछु।

दस्तखत:

परामर्शदाता संस्थाको छाप:

विषय विज्ञ सदस्यको नाम, धर:

GIS विज्ञ

मिति: २०७९/९/२९



1. General

Proposed Title and No	Data Management Curr GIS Expert
Name of the firm	Socseung in association with ERWC and TSE
Name of Expert	NEMI BHATTARAI
Date of Birth	14 October 1988
Citizenship	Nepali

2. Education:

- Masters in Remote Sensing and Geographic Information Systems , Asian Institute of Technology, Thailand , 3.96 (Distinction), 2018
- MS in Transportation Engineering Pulchowk Campus, Institute of Engineering, Tribhuvan University, Nepal, 84.30% (Distinction) , 2018
- Bachelor's in civil engineering, Kathmandu Engineering College, Tribhuvan University, Nepal, 2011.

Employment Record Relevant To The Assignment:

Period	Employing Organization and your title/ Position. Contract in for reference	Country	Summary of activities performed relevant to the Assignment
June 2013 to Till Date	Employer: Tech. Studio of Engineering. Position Held: Highway Engineer Contact Information for Reference: Name and Title Held: Sanjeev Regmi Mobile No. 9851069001 Email: info@tso.com.np	Nepal	Responsible for overall management of the contract including Site visit, to instruct for Survey, design, cost estimate preparation of contract document, coordination with Clients and presented various reports for various project

3. Membership Of Professional Associations:

- Nepal Engineering Council Membership No: 729211A

Key Trainings:

- Introductory Workshop on Mapping with UAV's, Geoinformatics Center, Asian Institute of Technology, Thailand , (30 – 31 January 2017)
- Space Environment and Kibo Utilization Workshop (SEKUW) , Chaeng Wathana, Thailand , 9 – 10 February 2017 Workshop on 4D GIS 1, 5 – 7 (November 2017)
- Sakura Science Exchange Program Tokyo University of Science, Japan 4 – 13 December 2017
- Training Course on Global Navigation Satellite Systems, Geoinformatics Center, Asian Institute of Technology, Thailand , 23 – 26 January 2017

AWARDS

- THE JOHN A. HRONES PRIZE, THAILAND (2018) for the most outstanding academic performance in the field of Remote Sensing and Geographic Information systems.
- NEPAL BIDHYA BHUSAND, NEPAL (2018) for the most outstanding academic performance in Master of Engineering in Remote Sensing and Geographic Information Systems from Asian Institute of Technology Thailand.

Language	Reading	Speaking	Writing
English	Excellent	Excellent	Excellent
Nepali	Excellent	Excellent	Excellent

1. Detailed Tasks Assigned And Consultant's Team Of Experts:

Adequacy For The Assignment:

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

Name of Assignment	Traffic Count Survey
Year	July 2018 to Date
Location	Nepal
Client	HIMISICT/DOR
Main project features	Traffic Count Survey of 180 nodes of 8000 Km of Road under Strategic Road Network
Position held & activities performed	GIS Expert/Highway / Civil Engineer ; Traffic Count Survey of 160 nodes within Nepal ii) Surface Distress Survey and Determination of Surface Distress Index of 8000 Km of Roads under Strategic Road Network iii) Roughness Survey by using Roughometer and Determination of International Roughness Index(IR) for 8000 Km of Road under Strategic Road Network iv) Preparation of Reports
Name of Assignment	Design of Melamchi Phase II funded by ADB
Year	June 2013 to July 2015
Location	Nepal
Client	Melamchi Water Supply Board
Main project features	Implementation of Melamchi Water Supply Project
Position held & activities performed	GIS Expert; Responsible for Satellite image processing including Digital Elevation Model Generation, Land use/ Land Cover classification, lineament analysis, DGPS survey
Name of Assignment	Traffic Count Survey

Year	June 2015 to June 2013, Intermittent Input
Location	Nepal
Client	HIM SOT-DOR
Main project features	Traffic Count Survey of 160 nodes 4878 Km of Road under Strategic Road Network.
Position held & activities performed	GIS Expert/Highway / Civil Engineer; Responsible for carrying out i) Traffic Count Survey of 160 nodes within Nepal ii) Surface Distress Survey and Determination of Surface Distress Index of 4878 Km of Roads under Strategic Road Network iii) Roughness Survey by using Roughometer and Determination of International Roughness Index(IRI) for 4878 Km of Road under Strategic Road Network iv) Preparation of Reports.
Name of Assignment	Traffic Count Survey
Year	June 2014 to June 2015, Intermittent Input
Location	Nepal
Client	HIM SOT-DOR
Main project features	Traffic Count Survey of 160 nodes 4878 Km of Road under Strategic Road Network.
Position held & activities performed	GIS Expert/Highway / Civil Engineer; Responsible for carrying out i) Traffic Count Survey of 160 nodes within Nepal ii) Surface Distress Survey and Determination of Surface Distress Index of 4878 Km of Roads under Strategic Road Network iii) Roughness Survey by using Roughometer and Determination of International Roughness Index(IRI) for 4878 Km of Road under Strategic Road Network iv) Preparation of Reports.
Name of Assignment	Solu Salleri Road, 172 Km
Year	April 2014 to September 2014, intermittent input
Location	Sirchuli District
Client	Department of Roads
Main project features	Detailed Engineering Survey, Design and Preparation of DPR of Beltan-Kamchugat-Pamacham-Bhanjyang-Temke-Sapsudhap-Mayur Danda-Sipa Pokhar-Gudel to Solu Salleri Road (172 Km)
Position held & activities performed	Highway Engineer; Responsible for Responsible for engineering survey, traffic count survey, inventory survey including pavement condition survey, detailed geometric design of the roads, detailed engineering design, preparation of cost estimate in preparation of various reports, contract document, coordination with client, team management
Name of Assignment	Hatya Burtibang Road, 42.9 Km
Year	November 2013 to June 2014
Location	Nepal
Client	Departments of Roads
Main project features	Detailed Engineering Survey, and Design of Highway and Other Structures and Preparation of Detailed Project Report (DPR) of Hatya Burtibang Road, 42.9 Km.
Position held & activities performed	Highway/GIS Expert; Responsible for carrying out detailed engineering survey and detailed design of Roads and preparation of drawings and cost estimate, Analysis of Topographic Maps including geo-referencing, catchment area delineation for hydrological analysis, mapping of highway in local coordinates as well as global coordinate system, Landuse/landcover classification, weighted overlay analysis for optimal alignment determination, linear referencing, spatial analysis including calculation of cut fill volume, visualization of highway in Google earth with proper chainaging.
Name of Assignment	Lumbini Circuit Roads for Road Improvement Project.
Year	September 2013 to November 2013, intermittent input
Location	Nepal
Client	Departments of Roads
Main project features	Detailed Engineering Survey and Design of Lumbini Circuit Roads for Road Improvement Project funded by Exim Bank of India 58.87 Km.
Position held & activities performed	Highway Engineer; Responsible for carrying out detailed engineering survey and detailed design of Roads and preparation of drawings and cost estimate.
Name of Assignment	Chiyabhanjyang-Ganeshwhok Road, 61.34
Year	May 2013 to February 2014, intermittent input
Location	Bajura District - Dhulikhel
Client	Department of Roads
Main project features	Detailed Design for upgrading of Highway to Basic Standard (Review of Mid Hill Highway Project and provision of access point to its corridor. Detailed Engineering Survey, and Design of Highway and Other Structures and Preparation of Detailed Project Report (DPR) of Chiyabhanjyang-Ganeshwhok Road, 61.34
Position held & activities performed	Highway/GIS Expert; Responsible for carrying out detailed engineering survey and detailed design of Roads and preparation of drawings and cost estimate, Analysis of Topographic Maps including geo-referencing, catchment area delineation for hydrological analysis, mapping of highway in local coordinates as well as global coordinate system, Landuse/landcover classification, weighted overlay analysis for optimal alignment determination, linear referencing, spatial analysis including calculation of cut fill volume, visualization of highway in Google earth with proper chainaging.
Name of Assignment	Khurkot-Ghurmi Road of Mid Hill Highway, 60 Km
Year	Dec 2011 to June 2012
Location	Nepal
Client	Department of Roads

Main project features	Review of Existing Road and its Corridor, Detailed Engineering Design of Highway and Other Structures for Upgrading of Roads, Preparation of Contract Document, Detailed Project Report (DPR) and Land Acquisition Work of Karkot-Churn Road of Mid-Hill Highway 50 Km
Position held & activities performed	Highway/GIS Expert; Responsible for carrying out detailed engineering survey and detailed design of Roads and preparation of drawings and cost estimate, Analysis of Topographic Maps including geo-referencing, catchment area delineation for hydrological analysis, mapping of highway in local coordinates as well as global coordinate system, Landuse/landcover classification, weighted overlay analysis for optimal alignment determination, linear referencing, spatial analysis including calculation of cut fill volume, visualization of highway in Google earth with proper chainaging.

Expert's Contact Information: Email: bhattarainemi@gmail.com / bhattarainemi7@gmail.com ; Phone: 9779841388562/014482012

Certification :

I, the undersigned, certify to the best of my knowledge and belief that

(i) This CV correctly describes my qualifications and experience

(ii) I am not a current employee of the Executing or the Implementing Agency

(iii) In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in Form TECH-6 provided team mobilization takes place within the validity of this proposal.

(iv) I was not part of the team who wrote the terms of reference for this consulting services assignment

(v) I am not currently debarred by a multilateral development bank

(vi) I certify that I have been informed by the firm that it is including my CV in the Proposal for G.S. Expert. I confirm that I will be available to carry out the assignment for which my CV has been submitted in accordance with the implementation arrangements and schedule set out in the Proposal.

I understand that any willful misstatement I described herein may lead to my disqualification or dismissal, if engaged



Date:

Signature of Expert

Full Name of authorized representative:

प्रारम्भिक वातावरणीय परिक्षण प्रक्रियामा संलग्न अध्ययन टोली सदस्यको स्वःघोषणा

प्रतिवेदनको मुख्य शिर्षक: चुटबल -गोरूसिंगे १५० कि मी। लडकखण्डको रतरोन्नति

प्रस्तावकको नाम: आयोजना निर्देशनालय (ए.डी.वी.), सडक विभाग

ठेगाना: विशालनगर, काठमाडौं

फोन नं: ०१-४४३७४९२, ४४३७४९३

फ्याक्स नं: ४४३७४८८

इमेल: pdadb@wlink.com.np

म निम्न घोषणा गर्दछु:

- म यस आयोजनाको वातावरणीय प्रभाव मूल्यांकन अध्ययन प्रतिवेदनमा संलग्न छु ।
- मैले यो अध्ययन स्वीकार्य अध्ययन विधि प्रयोग गरि तयार गरेको छु ।
- यस प्रतिवेदनमा समावेश गरिएको विवरणहरू सत्य र सही रहेका छन् ।
- मैले यस प्रतिवेदनमा समावेश भौतिक, जैविक, सामाजिक तथा आर्थिक वातावरणीय विवरण तथा सामग्रीको अध्ययन र जाँच गरेको छु ।
- म संलग्न यस आयोजनाको वातावरणीय अध्ययनसँग सम्बन्धित प्रतिवेदनमा समावेश कुनै पनि भ्रमक जानकारी वा विवरणको न नैतिक तथा कानूनी जवाफदेहीता बहन गर्दछु ।
- माघे बुद्धी नम्बर १ मा उल्लेखित अध्ययन कार्यको सिलसिलामा प्रस्तावित आयोजना क्षेत्रमा मिति डिसेम्बर २०२१ देखि मार्च २०२२ सम्म म स्वयम् उपस्थित भै तथ्यांक संकलन गरेको घोषणा गर्दछु ।
- यो अध्ययन प्रतिवेदनमा बौद्धिक चोरी लगायत कार्यको जिम्मेवारी बहन गर्दछु ।

दस्तखत:

परामर्शदाता संस्थाको छाप:

विषय विज्ञ सदस्यको नाम, थर: प्रनिल प्रधान

वातावरण विद्

मिति: २०७९/९/२१



Name	Pranil Pradhan
Date of Birth:	10 th March, 1993
Country of Citizenship	Nepali
E-mail	ppranil401@gmail.com
Phone No:	+977-9851215923
Permanent Address:	Budhashanti Rural Municipality-2, Jhapa, Province One
Current Address	Koteshwor, Kathmandu, Bagmati Province

Education:

Names of Educational Institutions	Passed Year	Degree(s) Obtained
Shree Adarsha Secondary School, SLC Board	2009	Secondary Level
Kankai Boarding Higher Secondary School, Higher Secondary Examination Board	2011	XI & XII
Goldengate International College, Tribhuvan University, Kathmandu	2018	M. Sc. (Environmental Science)
Mechi Multiple College, Tribhuvan University, Jhapa	2014	B. Sc. (Environmental Science)

Employment record relevant to the assignment:

Period	Employing organization and your title/ Position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
March 2020-Till Date	Individual Consultant as Environmentalist	Nepal	• Preparation of Environmental Assessment report, Update Environmental Monitoring Plan of Upgrading of Butwal-Gorusinghe (50 KM) Road Project of East-West Highway-World Bank Funded Project • Preparation of Environmental Impact Assessment Report, Update Environmental Management Plan, Interaction with local government officials and conducted public hearing for Upgrading of Kakarbhitta-Laukahi (120 KM) Road Project of East-West Highway-ADB Funded Project • Preparation of Environmental Impact Assessment Report, Update Environmental Management Plan for Upgrading of Pathlaiya-Hetauda-Narayanghat (100 KM) Road-World Bank Funded Project • Preparation of Environmental Management Plan of Landmark Bridge of Kakarbhitta-Laukahi (120 KM) Road Section- ADB Funded Project
Jan 2019-Till Date	Employer: GoldenGate International College Title/Position: Lecturer/Faculty Member Type of Employment: Full time Reference: Prakash Chandra Aryal, Head of Department Masters in Environmental Science	Nepal	• Developing and implementing lesson plan, monitoring, evaluation and reporting • Engage students in diverse teaching and learning methods including case-studies, group discussion, presentation, seminar/workshops, project and dissertation works and research activities

	Tel: +977-1-4477082 E-mail: info@goldengate.edu.np		• Technical assistance in laboratory performances and field data collection • Reporting to Department head
Dec 2017 – Jan 2018	Employer: Jade Consult Pvt. Ltd. Title/Position: Environmental Officer Type of Employment: Full time Reference: Pravin Aryal, Chief Executive Officer Tel: +977-1-4247237 E-mail: info@jadeconsult.com.np	Nepal	• Review and preparation of periodic (Monthly, quarterly and semi-annual) environmental safeguard monitoring reports, Site inspection to monitor the environmental compliances as per the approved documents i.e. Environment Health and Safety (EHS) plan, Initial Environmental Examination (IEE) for the project "South Asian Sub-Regional Economic Corporation (SASEC)-ADB Funded Project • Review and preparation of EHS plan, Environmental Management Plan, Updated Resettlement plan (RP), Collection of baseline information and household survey for the project "Power Transmission and Distribution Efficiency Enhancement Project"- ADB Funded Project • Preparation of scoping document and Terms of references, collection of baseline information, consultation with stakeholders for the project "Reconstruction and improvement of electricity in earthquake affected districts"-German Development Cooperation (KfW) Funded Project • Preparation of Resettlement and Rehabilitation Plan, Supplementary IEE and RAP reports for Arun 3 HEP project. • Preparations of Expression of Interest (Eoi) and Proposals for the project.
Apr 2017- Mar 2018	Employer: Datalytics Pvt. Ltd. Title/Position: Researcher and Data Analyst Type of Employment: Full time Reference: Sirshak, COO E-mail: shirsak@DatalyticsNepal.com	Nepal	• Blog writing and technical report writing. • Data analysis • Supervision and guidance on the use of data analysing tools.
Since 2016- Till now	Research activities	Nepal	• Study on the Impacts of chemical fertilizers on the production and soil quality of Agrofarms of Thankot, Kathmandu (February, 2017) • Study on carbon stock and regeneration patterns of forests of Bardiya and Kathmandu (January, 2016) • Group leader in the National Level Pangolin Survey (July, 2016) • Assisted in evaluation of impacts in environmental assessment (2016)

Publication:

- Pradhan P., Shah D.N. 2017. **Ecological Assessment of Mai Pokhari: A Ramsar Site of Eastern Nepal**, Journal of Environmental Science, Department of Environment, 2021 Vol 6
- Shrestha. K., Pradhan P., **Rainwater harvesting practices in Kathmandu Metropolitan city**, Journal of Environmental Science, Department of Environment, 2022 Vol 7 Nepal

Ongoing Publications:

- Significance of urban green spaces in Kathmandu Metropolitan City
- Floristic composition, diversity and carbon stock along altitudinal gradients in western part of Kathmandu

Ongoing Training:

- **Teaching sustainability and localising Sustainable Development Goals in Hindu Kush Himalaya** (29 September-22 December, 2022), Organizer- Himalaya university consortium in partnership with Potsdam Institute for Climate Impact Research, Asian Institute of Technology and Kathmandu University

Training and Participation: -

- Training on Quality Management System (ISO 9001: 2015), April 2019
- Training on Environmental Assessment, December 2018
- Paper Presentation on 3rd International Conference on Mountains in the Changing World, October 2018
- Training on Geographic Information System (GIS) and R-software, January 2018
- Proposal writing training, June 2017
- Paper presentation on 3rd Graduate Conference on Environment and Sustainable Development, March 2017
- Training on Solid Waste Management and Occupational Health and Safety, March 2017
- Participated on 2nd Graduate Conference on Environment and Sustainable Development, March 2016

Additional Skills:

Application/Software	Speaking
MS Office (Word, Excel & Power point)	Excellent
ArcGIS	Good
R-Software	Good

Language Skills (indicate only languages in which you can work):

Languages	Speaking	Reading	Writing
Nepali	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
Hindi	Good	Excellent	Good

DECLARATION

I hereby declare that the above information is being duly filled by me and are correct to best of my knowledge. I can provide evidences of the above information if so required.

Signature



Date

November 27, 2022

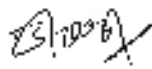
प्रारम्भिक वातावरणीय परिक्षण प्रक्रियामा संलग्न अध्ययन टोली सदस्यको स्व:घोषणा

प्रतिवेदनको मुख्य शिर्षक: बुटवल गोरूसिंगे (५० कि मी) सडकखण्डको स्तरोन्नति
प्रस्तावकको नाम: आयोजना निर्देशनालय (ए.डी.बी.), सडक विभाग
ठेगाना: विशालनगर, काठमाण्डौ
फोन नं: ०१-४४३७४९२, ४४३७४९३
फ्याक्स नं: ४४३७४८८
इमेल: pdadb@wlink.com.np

म निम्न घोषणा गर्दछु

- म यस आयोजनाको वातावरणीय प्रभाव मूल्यांकन अध्ययन प्रतिवेदनमा संलग्न छु ।
- मैले यो अध्ययन स्वीकार्य अध्ययन विधि प्रयोग गरि तयार गरेको छु ।
- यस प्रतिवेदनमा समावेश गरिएको विवरणहरू सत्य र सही रहेका छन् ।
- मैले यस प्रतिवेदनमा समावेश भौतिक, जैविक, सामाजिक तथा आर्थिक वातावरणीय विवरण तथा सानाग्रीको अध्ययन र जाँच गरेको छु ।
- म संलग्न यस आयोजनाको वातावरणीय अध्ययनसँग सम्बन्धित प्रतिवेदनमा समावेश कुनै पनि भ्रामक जानकारी वा विवरणको म नैतिक तथा कानूनी जवाफदेहीता बहन गर्दछु ।
- माथि बुदाँ नम्बर १ म उल्लेखित अध्ययन कार्यको सिलसिलामा प्रस्तावित आयोजना क्षेत्रमा डिसेम्बर २०२१ देखि मार्च २०२२ सम्म म स्वयम् उपस्थित भै तथ्यांक संकलन गरेको घोषणा गर्दछु ।
- यो अध्ययन प्रतिवेदनमा बौद्धिक चोरी लगायत कार्यको जिम्मेवारी बहन गर्दछु ।

दस्तखत:



परामर्शदाता संस्थाको छाप:

विषय विज्ञ सदस्यको नाम, थर: भरत रेग्मी

वन विज्ञ

मिति: २०७९/९/२९



Curriculum Vitae

Personal Information

Name : Bharat Regmi
Gender : Male
Place/ Date of Birth : Surkhet, January 27, 1997
Permanent Address : Birendranagar-8, Surkhet, Nepal
Father's Name : Prem Prashad Sharma (Regmi)
Mother's Name : Goma Regmi
Blood Group : AB +ve
Citizenship No : 64-01-72-00494
Marital Status : Single
Religion : Hindu
Mobile Telephone : +977-9858061911
E-mail : bharatregmi75@gmail.com

Educational Qualification:

SN.	Qualification/Degree	Board, Institution	Year
1.	S.L.C.	HMG Board	2012
2.	10+2 Science	HSEB	2012-2014
3.	B.Sc. Forestry	Tribhuvan University	2016-2020

Experience:

- Worked as a field assistant on the mapping of forest fire in Nawalparasi District for one week in 2017.
- Worked as one of the field technician of Resunga Bikas Abhiyan on Gulmi district for Inventory, Mapping and making of Operational plan of community forest in 15 VDC's in 2018.
- Worked as the field and office work on feasibility study of eco-tourism in Karnali Province at MOFFLE, Karnali Province, Nepal at 2018.
- Worked as field technician and office work in preparation of Scientific Forest Operational plan of 4CF at Kailali district in 2019.

- Identification and documentation of endemic flora and fauna of Syanja District , implemented by Green protection Pvt.Ltd in 2019.
- Worked as technician in preparing Community Forest Operational Plan of different community forest of Kaski viz. BaunnelekJahareBanpaleKalsepari CF, Saptarishi CF, ChandikotDil CF in 2019.
- Worked on the remeasurement of sample permanent plot at Chitwan and Bardiya in 2018 and 2019
- Worked as the preparation of Community Forest Operational pain of buffer zone at Banke National Park 2020.
- Worked as a data collection and preparation of ELA report of Bangesimal- sahi khola road section, Jamunehazar- Simalgau road section in 2020-2021.
- Worked as project Co-ordinator “Securing community forest rights in Nepal through coordination with local government and coordinated local actions” on FECOFUN, Nepal since 2021january to December.

Training and participation:

- Participated on “ Capacitybuilding and possibilities forest based enterprises training” organized by FECOFUN, Nepal.
- Participated in Scientific Forest Management (SFM) Training in the Terai region of Nepal for 17 days organized by the Institute of Forestry, Department of Forest Management (2019). Participated on Scientific Forest Management project in Tanahu District.
- Volunteered in 3 days “Wetland Bird Survey organized by Pokhara Bird Society (PBS) (2018).
- Volunteered in Sanitation Program on World Environment Day organized by National Youth Conservation Association (NYCA)-Nepal (2018).
- ! Participated in Climate Change Talk organized by Pokhara Weekly (2017).
- Trainee of Wildlife Research Training organized by Friends of Nature (FON)-Nepal (2017). Trainee of 7 days training on "Fundamental arc GIS" organized by Resources Himalaya Foundation (RHF), Nepal (2017).
- Participated in Plastic Awareness video competition organized by The Generation Green- WWF, Nepal (2017).
- Participated in a school teaching program on the occasion of World Elephant Day organized by AACD-IOF, Pokhara (2017).
- Participated in conservation awareness and school teaching program with Self-Help Environment Awareness Camp (SHEAC), Institute of Forestry Pokhara (2016)

Publications:

- Research on **“Impact Assessment of forest based micro-enterprises in livelihood upliftment of CFUG (A case study from Surkhet District)”** submitted for the partial fulfillment of Bachelor of Science in Forestry, Tribhuvan University, Institute of Forestry, Pokhara, Nepal.
- Ecotourism Potential of Rara Lake at The Green Voice.
- Potential of forest in economic value, news article published on My republic.

References:

- Krishna Raj Tiwari, Dean/Professor, Tribhuban University, Institute of Forestry, Pokhara, Nepal (krishna.ioff@gmail.com/ ktiware@iofpc.edu.np).
- Deepa poudel (Assistant Professor, Tribhuban University, Institute of Forestry, Pokhara, Nepal (skt.deepa@gmail.com))
- Prakash Basnet (Assistant forest officer), MOFFEP, Karnali Provincence, Nepal.

Certification:

I the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.



Bharat Regmi

ANNEX IV: MAPS



Scale: 1:50,000 Projection: UTM Zone: 48N Datum: Everest Units: Meter	PROJECT TITLE		SCALE	MAP	SHEET NO.	DATE
	ROAD NAME	PROJECT TITLE				
Prepared by: [Name] Checked by: [Name] Approved by: [Name]	Project Description: [Text]		Sheet No. [Number]			

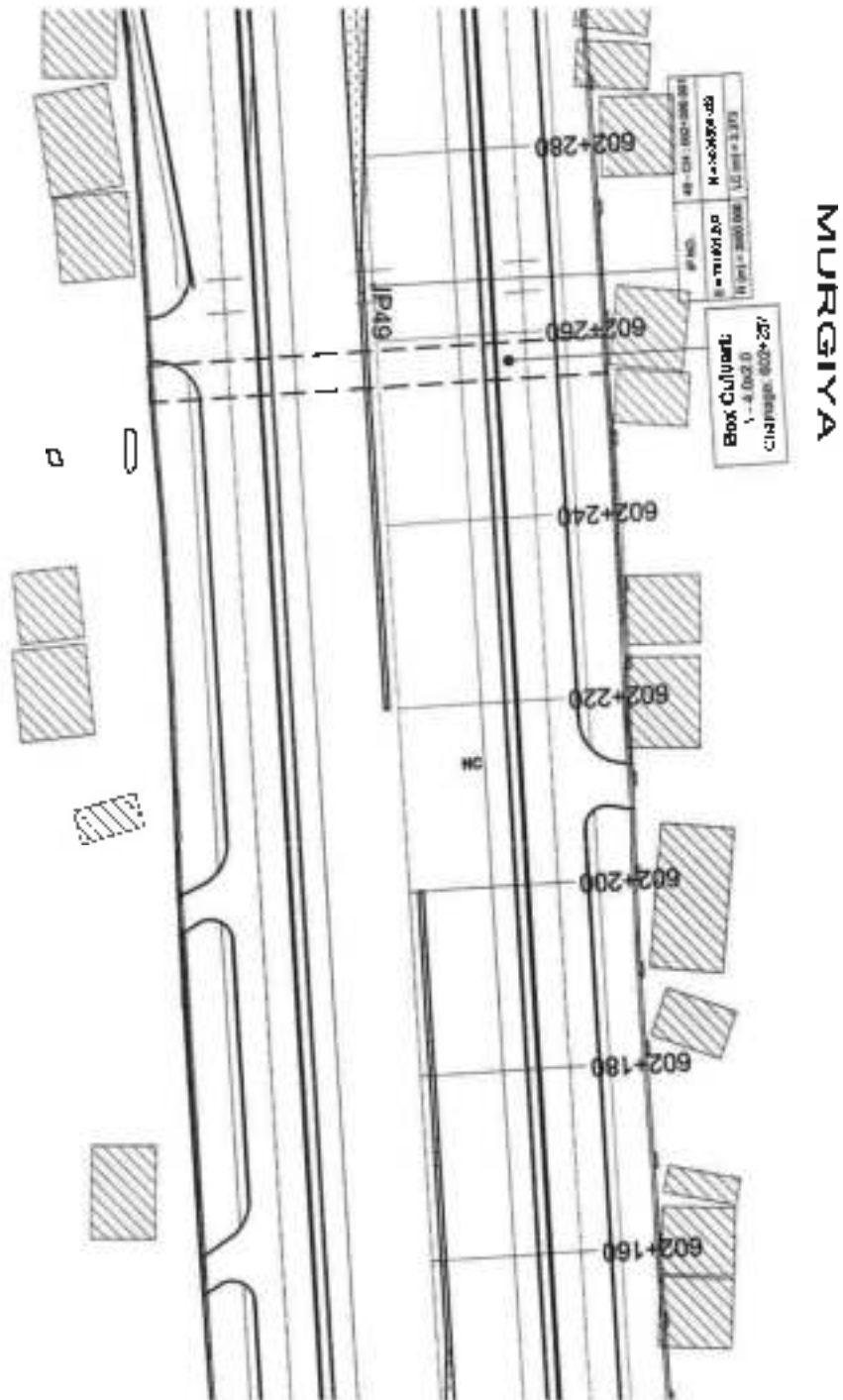


 Ministry of Road Transport and Highways Department of Roads Project Directorate, Office of ADB SAARC Highway Implementation Project Project: Bypass/Improvement of Bypass Section No: 37222EP	CONSULTANT:  Ssangyong Engineering Co., Ltd. Korea		ROAD NAME: East West Highway (401)		SHEET TITLE: 401 - 174000 (N 72° 47' 13")		SCALE: 1:1000		NAME: REVISION: DATE:		DESCRIPTION: DATE:	
	PROJECT: SAARC Highway Implementation Project		PROJECT NO: 37222EP		SECTION NO: 1		DATE: 4 APR 2022		REVISION: DATE:		DESCRIPTION: DATE:	
	PROJECT NO: 37222EP		SECTION NO: 1		DATE: 4 APR 2022		REVISION: DATE:		DESCRIPTION: DATE:		DESCRIPTION: DATE:	
	PROJECT NO: 37222EP		SECTION NO: 1		DATE: 4 APR 2022		REVISION: DATE:		DESCRIPTION: DATE:		DESCRIPTION: DATE:	

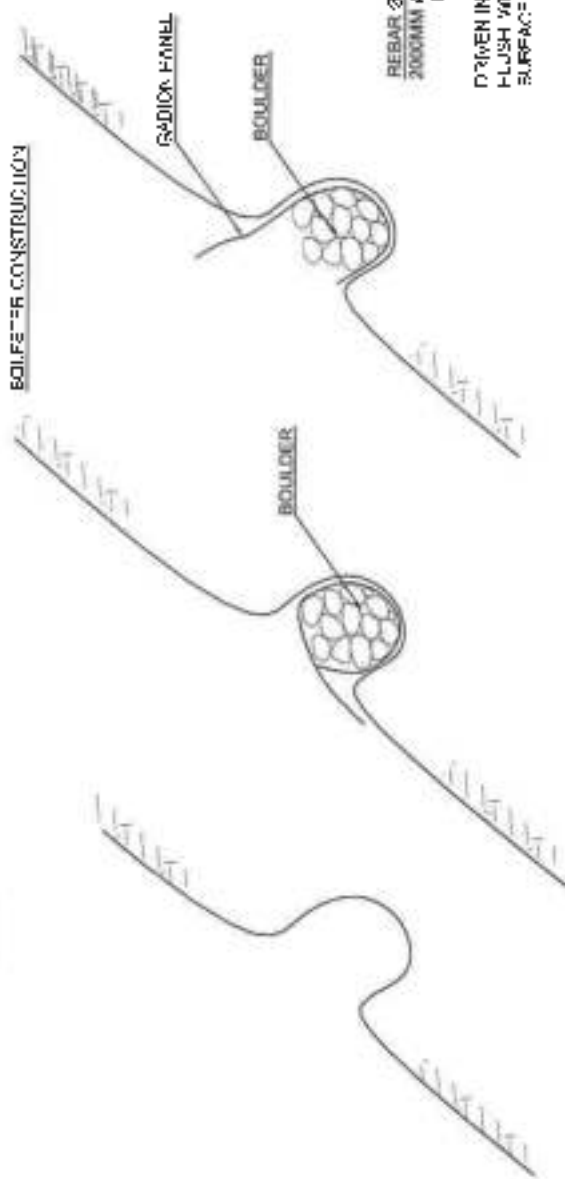
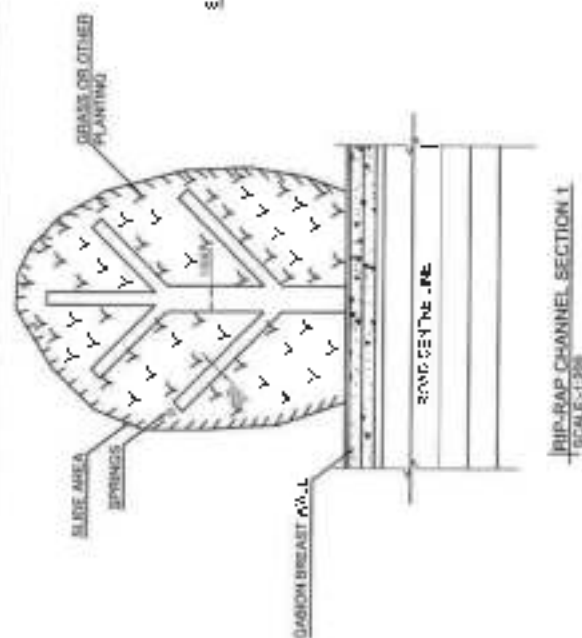


Ministry of Road Transport and Highways Department of Roads Project Directorate, Bhubaneswar (ODR) Sagart Highway Infrastructure Project Sagart Highway Corridor (S. 10-35C) Sagart Highway Corridor (S. 10-35C) Sagart Highway Corridor (S. 10-35C)	CONSULTANT:		ROAD NAME:		SHEET TITLE:		SCALE:		DESIGNED BY: CHECKED BY: APPROVED BY:	SHEET NO.	SHEET DATE:			
	Sagart Highway Corridor (S. 10-35C)		Sagart Highway Corridor (S. 10-35C)		Sagart Highway Corridor (S. 10-35C)		1:1000							
	Sagart Highway Corridor (S. 10-35C)		Sagart Highway Corridor (S. 10-35C)		Sagart Highway Corridor (S. 10-35C)		Sagart Highway Corridor (S. 10-35C)							

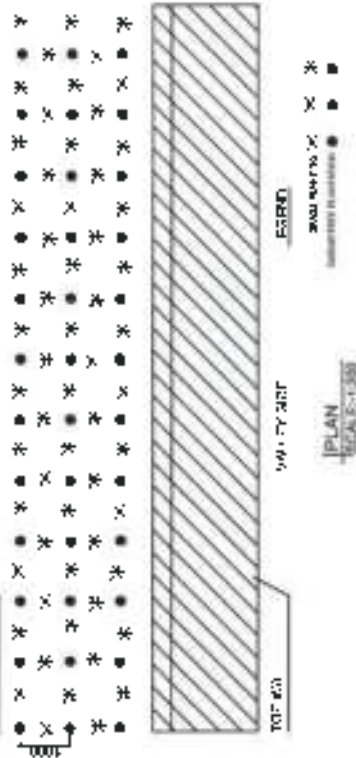
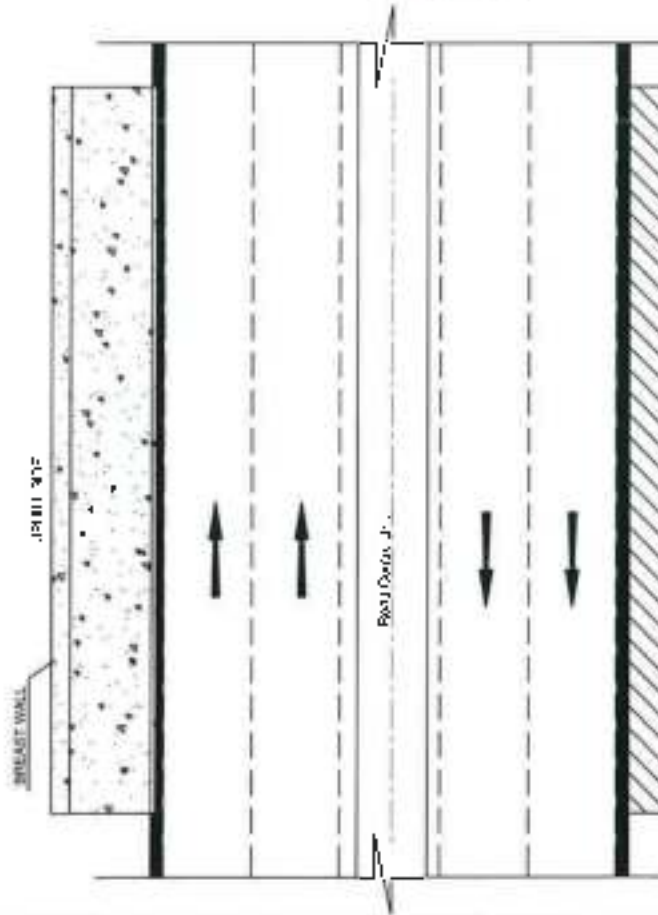
Typical design of U Turn



Typical Drawing for Animal Crossing



COMBINED BREASTWALL WITH BIOENGINEERING WORKS ON BACKFILL AND CUT SLOPE.



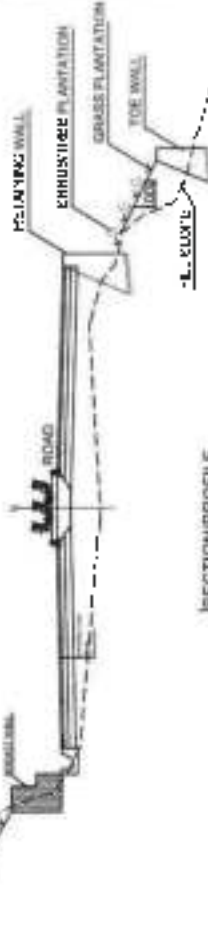
CONTRIBUTOR: Ministry of Physical Infrastructure and Transport
PROJECT: Project Directorate Office (ADO)
PROJECT: 848EC Highway Improvement Project
PROJECT: Project Directorate Office (ADO)
PROJECT: 848EC Highway Improvement Project
PROJECT: Project Directorate Office (ADO)

IMPLEMENTING AGENCY: DOR, DCD
ROAD NAME: East River Highway (M1)
PROJECT: 848EC Highway Improvement Project

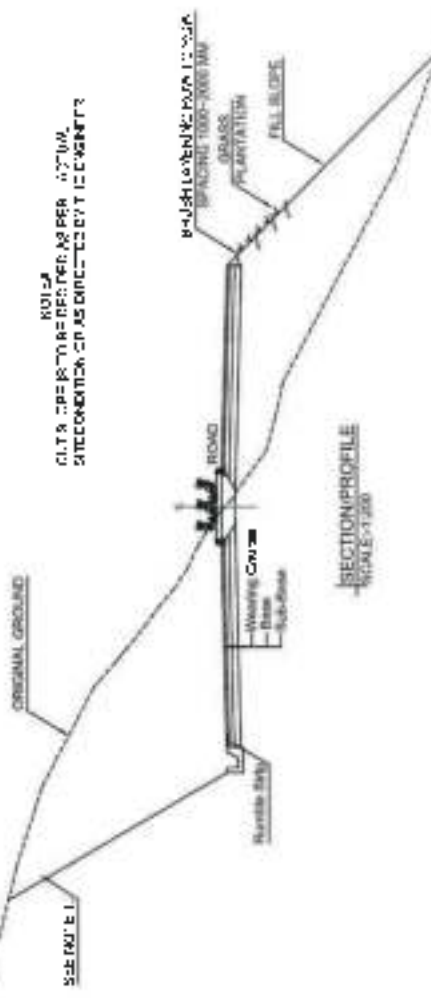
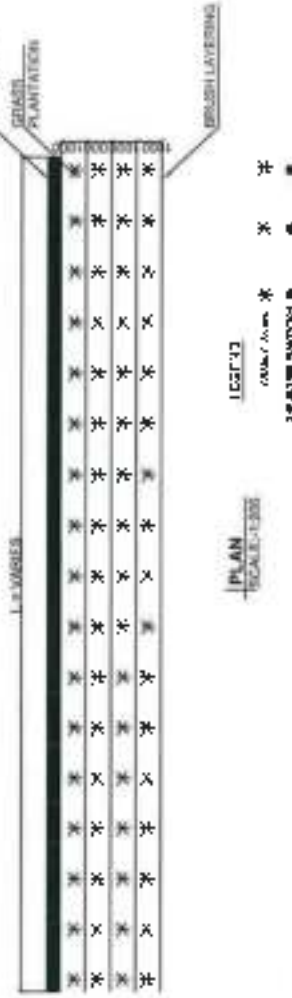
SHEET TITLE: 848EC Highway Improvement Project
SCALE: As Shown

DATE	DESCRIPTION	REV NO	REMARKS	DATE
2023	Issue for construction	1	As per design	2023
2023	Issue for construction	2	As per design	2023
2023	Issue for construction	3	As per design	2023
2023	Issue for construction	4	As per design	2023
2023	Issue for construction	5	As per design	2023
2023	Issue for construction	6	As per design	2023
2023	Issue for construction	7	As per design	2023
2023	Issue for construction	8	As per design	2023
2023	Issue for construction	9	As per design	2023
2023	Issue for construction	10	As per design	2023

NOTE: CLT 8 TYPE TO BE DESIGNED AS PER ADO
 SITE CONDITION OR AS DIRECTED BY ENGINEER



BIOENGINEERING WORKS ON FILL SLOPE.



NOTE: CLT 8 TYPE TO BE DESIGNED AS PER ADO
 SITE CONDITION OR AS DIRECTED BY ENGINEER

**ANNEX V: MINUTES OF CONSULTATION
MEETINGS**

पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरखा (५० कि.मि. सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा श्रोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०७८/०५/२३

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : बुटवल उप-महानगरपालिका

वडा नं. : ४

स्थान : तारकापाँचपाँच/काँचपाँच

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरू :

- १) सडक भित्र रहेका खानेपानी पाइपलाईन, विद्युत, टेलिफोन, सिचाई कुली, नहर, टन विकास जस्ता संरचनाहरूको सम्बन्धित निकायसँग समन्वय गर्दै व्यवस्थापन गरेर निर्माण कार्य गरिनुपर्ने।
- २) आवश्यकता अनुसार cross drainage management तथा culvert ढाकाको (आवश्यकता) निर्माण गरिनुपर्ने।
- ३) प्रत्येक वर्ष पहिरोको जोखिम रहेकाले पहिरो नियन्त्रणको उपायहरू (बायोइन्जिनियरिङ) तथा सुरक्षाका उपायहरू अपनाइसकेर सडक निर्माण गरिनुपर्ने। (अत्याधिक पहिरो ग्रस्त क्षेत्रमा तं-२ मा उचित अध्ययन गरिनुपर्ने)
- ४) प्रमुखीय बजार क्षेत्र तथा विद्यालय क्षेत्रहरूमा आवश्यकता अनुसार आकाश पुल, जेब्रा क्रसिङ, ट्रान्जिट लाईटहरू व्यवस्था गरिनुपर्ने।
- ५) विभिन्न लक्सी तथा टेलुमा प्रवेश गर्ने बाटोहरूलाई स्वरोच नहुने गरी सडक निर्माण गरिनुपर्ने।
- ६) सडक निर्माणको क्रममा हुनसक्ने वातावरणीय प्रदूषणको प्रभावलाई घटाउन ट्रिपर प्रदूषण न्यूनीकरणका उपायहरू अपनाइसकेर सडक निर्माण गरिनुपर्ने।
- ७) विद्युत तथा टेलिफोनका तारहरूलाई व्यवस्थित गरिनुपर्ने।
- ८) सडक दुर्घटना न्यूनीकरण हुने गरी सुरक्षाका उपायहरू अपनाइ निर्माण कार्य गरिनुपर्ने (overpass, underpass)
- ९) स्थानीय बासिन्दाहरूलाई दहनको आधारमा कामको अवसर दिनुपर्ने।
- १०) सडक खानेपानी रहेकाले ति खानेपानी पानीको विकासका (लागि) उपायहरू अपनाइसकेर लक्सीमा प्रभाव नपर्ने उपायहरू अपनाइसकेर सडक निर्माण गरिनुपर्ने।
- ११) प्रभावित व्यक्तिहरूलाई अवस्था र प्रकृति हेरेर ति व्यक्तिहरूलाई उचित व्यवस्थापन गरिनुपर्ने। (उचित मुआवजा दिइएर स्थापित गरिनुपर्ने आवश्यकतालाई स्विकार्ने नै)
- १२) प्रारम्भिक सामाजिक तथा वातावरणीय तथा पुनर्वसारीको दायरामा गरिनुपर्ने।







पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरुसिङ्गे (५० कि.मि.सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०७८/०९/१८

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : बुटवल उप-महानगरपालिका

वडा नं. : १

स्थान : वडा कार्यालय, प्रौढशाला स्थान (कपन्देही)

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरु :

- १) यस आयोजनाले प्रभावित स्थानीय वस्तीमा पर्ने जाने संरचना तथा व्यवसायमा हुन सक्ने प्रभावको मूल्याङ्कन गरी सम्बन्धीत रूपमा स्थापित गरिनुपर्ने।
- २) आयोजनाको सडक मापदण्ड मिलाउने खप्तपोती, सिंचाइ, विद्युत, टेलिफोन, ढोल, लगायतका रूपमा संरचनाहरूसँग सम्बन्ध गरी निर्माण कार्य सुरु गर्नु पर्ने।
- ३) आयोजनाबाट प्रत्यक्ष वा अप्रत्यक्ष प्रभावित स्थानीय वासिन्दाहरूलाई जिविकोपार्जन सम्बन्धी तथा शिप विकास सम्बन्धी पूरक आयोजना संचालनद्वारा स्थापित गरिनुपर्ने।
- ४) सडक निर्माणको कार्य सुरु गर्दा वातावरणीय सुरक्षाका उपायहरू अर्थात् सडकमा पानी दान्त, डाम नियन्त्रण गर्ने र सडक सुरक्षाका उपायहरू संचालन गर्नु पर्ने।
- ५) यस आयोजनाबाट सडक विस्तार गर्ने क्रममा प्रभावित घर, गाँठ, विद्यालय, मठमन्दिर, मस्जिद आदि सम्पूर्ण खालका संरचनाहरूको आयोजनाको नियम अनुसार मूल्याङ्कन गरी इचित क्षतिपूर्तीको व्यवस्था गरिनुपर्ने।
- ६) सडक खण्डलाई विभिन्न खण्डहरूमा विभाजन गरी निर्माण कार्य सुरु गर्नुपर्ने र सम्बन्धी सक्नुपर्ने।
- ७) आवश्यकता अनुसार अपरपास र आकाश पुलको व्यवस्था गरिनुपर्ने।



सामुहिक छलफलमा उपस्थित सहभागीहरुको नामावली

क्र.सं.	नाम	उमेर	पेशा/पद	ठेगाना	हस्ताक्षर/सहिव्यप
१	मोहनप्र. लिगाल	५१	बडा शिक्षक	बुधल-७	
२	मदनकुमार श्रेष्ठ	५५	बडा सहप	बुधल - १	
३	अशोक राई	४९	प्रशासक	" "	
४	चन्द्रमान जोशी	५५	प्र.स.प.क	बुधल १	
५	हरे श. लाल श्रेष्ठ	४९	वि.	"	
६	वि.व.राज श्रेष्ठ		प्र.स.प.क	बुधल १	
७	२	४६	बडा सहप	बु.उ.प.म.स.प.१	
८	सतिश.क.लाल	५५	बडा सहप	बु.उ.प.म.स.प.१	
९	उ.उ. बहादुर श्रेष्ठ	४६		" १२	
१०	पावेली च.श्रेष्ठ	४५	प्र.स.प.क	"	
११	सुनिता क्षेत्री	३६	अ.स.	"	

पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरुसिङ्गे (५० कि.मि.सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०७८/०९/२७

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : बुटवल उप-महानगरपालिका

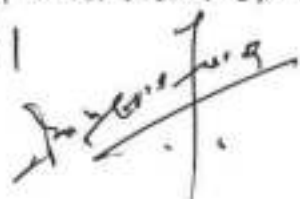
वडा नं. : २

स्थान : वडा कार्यालय

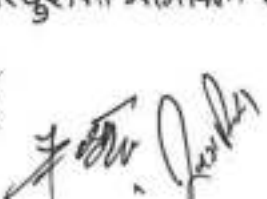
यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरु :

- १) सडकमा रहेका खानेपानीको पाईप लाईन, विद्युत, टेलिफोन, इन्टरनेट, अप्टिकल फाइबरका सम्बन्धित निष्कास्य र समन्वय गरी व्यवस्थापन गर्दै निर्माण कार्य गरिनुपर्ने।
- २) विभिन्न बस्ती तथा टोलमा प्रवेश गर्ने बाटोहरूलाई अवरोध नहुने गरी सडक निर्माण गरिनुपर्ने।
- ३) सडक निर्माणको क्रममा बस्ती तथा टोलमा पर्ने वातावरणीय प्रदूषणको प्रभावलाई ध्यान दिएर प्रदूषण रहित प्रक्रियाबाट निर्माण गरिनुपर्ने।
- ४) सडक निर्माण कार्य स्वपीकरण गरी गरिनुपर्ने।
- ५) प्रमुख प्रशान्ति क्षेत्र (बजार क्षेत्र) तथा विद्यालय क्षेत्रहरू तथा चोकहरूमा सडक दुर्घटना न्यूनीकरण हुने गरी आकाश पुल, डेक्का क्रसिङ, underground, overpass आदिको व्यवस्था गरिनुपर्ने।
- ६) स्थानीय जग्गदारीलाई छुट्याको आधारमा रहेको कामको अवसर दिनुपर्ने।
- ७) आवश्यकता अनुसार culvert हरूको व्यवस्था गरिनु पर्ने।
- ८) ठमिलु संरचनाको आयोजनाले नै डिमोबरी निरूप सौ को पुनर्निर्माण आयोजना स्वयम्ले गर्नुपर्ने।
- ९) भक्तमान मन्दिर र दुर्गा मन्दिर प्रति हानि हुन सक्ने गरी निर्माण कार्य गर्नहुने (संरक्षण गरिनुपर्ने)
- १०) ऊपर दिशा पट्टिबाट बगेर आउने पानीको व्यवस्थापन गर्न (mass drainage management तथा ड्रेन culvert हरूको व्यवस्थापन गर्दै निर्माण कार्य गरिनुपर्ने।
- ११) विद्युतका तार तथा टेलिफोनका तारहरूलाई भूमिगत गरिनुपर्ने।
- १२) सडक निर्माणको क्रममा निर्माण कर्ता/जग्गदारीद्वारा हुनेसक्ने सामाजिक हिंसा तथा अनुरागन दिनुने क्रियाकलापलाई नियन्त्रण गरी अनुशासित तरबाट गरिनुपर्ने।
- १३) आवश्यकता अनुसार पुलहरूको निर्माण गरिनुपर्ने।
- १४) प्रत्येक वर्ष पट्टिमा जोरिम रहेकाले पट्टिमा नियन्त्रणको उपायको अपनाएर निर्माण कार्य गरिनुपर्ने।
- १५) आधारभूत संरचनाको लागि जग्गा जमाव क्षेत्र भित्र पर्ने वरिष्ठको नामावली संकेत गरी वडामा सूचना उपलब्ध गराउनुपर्ने।

 जग्गा

 २०७८/०९/२७

 सुनि

 जग्गा

वडावा



पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरसिङ्गे (१० कि.मि.सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०६८-०८-०५

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : फुटवल उपमहानगरपालिका

बडा नं. : १२

स्थान : १३/ काथलिप, नयाँगाउँ

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरू :

- १) सडक निर्माणको क्रममा निम्नका धुवाधुलोको पूर्ण निषेध हुनुपर्ने । एथारीभवासीलाई सडक निर्माणको क्रममा निम्नका धुवाधुलोको जम्माएकपमा जमल गर्ने तर्फको स्वास्थ्य सम्बन्धी कार्यक्रमहरू संचालन गरीनुपर्ने ।
- २) सडक निर्माण गर्दा (बुटवल बालीपत्रे भन्नाले) यदि निर्माण गरी हेउका भागको कार्य पसिला गर्दा धुवाधुलो र smoke / दुर्घटनामा कमी लाग्ने ।
- ३) सडक निर्माण सुवधी होटो तथा निश्चित समयको आफ्नो स्थानीयवासीलाई प्रदुषण कम बेडाउनु (बेडाउने) । र साथै सडक निर्माण गुणगुण हुनुपर्ने ।
- ४) नयाँ राजमार्ग नजीक रहेका वैकल्पिक मार्गहरूको निर्माण तथा स्तरोन्नतीमा आफ्नो जमाले सहयोग गरेमा एथारीभवासीलाई आफ्नो जमालमा खेत हुने ।
- ५) बाहिरी कामदारबाट हुने नयाँ कामाजीक विहारीलाई निषेध गर्न जनचेतनामूलक कार्यक्रमहरू संचालन गरीनुपर्ने ।
- ६) सडक हेउमा रहेका विद्यालय, स्वास्थ्याल, प्रतिस्नालय, भईल सोदि जस्ता संरचनाहरूको संरक्षणमा सहयोग गरीनुपर्ने ।
- ७) आफ्नो जमाले विमलन वार्डको उल्लानका लागि भए तथा ^(श्रीधर) सोप (विकासका) कार्यक्रमहरू संचालन गरीनुपर्ने ।
- ८) सडक निर्माण (वण्टीकरण) गरी गर्ने योजना अन्तर्गत जारीमा smoke / दुर्घटना) दुर्घटना तथा प्रदुषणको धेरै वढाका निषेध गर्न सकिने ।
- ९) आफ्नो जमाले निर्माण भवतापतिमा आफ्नो जमालमा गरी एथारीभवासीलाई श्रीधर तथा दस्ताका ^(आधारमा) आधारमा राजमार्गमा प्राथमिकता दिनु पर्ने ।
- १०) सडक निर्माणको क्रममा आफ्नो हुने स्तरोन्नती, टेलिफोन, बिद्युत, हल र अन्य संरचनाको संरक्षणमा आफ्नो जमाले सहयोग गर्नुपर्ने ।

[Signature]

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सामूहिक छलफलमा उपस्थित सहभागीहरुको नामावली

क्र.सं.	नाम	उमेर	पेशा/पद	ठेगाना	हस्ताक्षर/सहिव्याप
१	दुर्गा प्रसाद मुर्देदी	६०	गडा अद्वय	बुटवल उपमहानगर पालिका	<i>[Signature]</i>
२	गंगा अग्रणी	६५	पालिकाकोष	"	<i>[Signature]</i>
३	तिलक के.सी.	४०	ब्यवसाय	बुटवल - ७२	<i>[Signature]</i>
४	होरे ए. उमादास	६९	ब्यवसाय	" ७२	<i>[Signature]</i>
५	राजाराज उमादास	६८	"	"	<i>[Signature]</i>
६	धानिकुमारी मुखर्जी	४५	रत्न अलंकार	"	<i>[Signature]</i>
७	जमल नेपाली	३३	टो. रंगिना	"	<i>[Signature]</i>
८	देवी लक्ष्मी	४३	गडा अद्वय	"	<i>[Signature]</i>
९	दुर्गा रत्न खनाल	४६	सचिव	बुटवल ७२	<i>[Signature]</i>
१०	अमवली आचार्य	५६	अद्वय	बुटवल ७२	<i>[Signature]</i>
११	लक्ष्मी रेग्मी	३२	उपा. दह	"	<i>[Signature]</i>
१२	चोपवला पौडेल	६२	सल्लाहकार	"	<i>[Signature]</i>
१३	लक्ष्मी मल्ल	६८	अद्वय	"	<i>[Signature]</i>
१४	यशोदा खरेल	४०	राष्ट्रिय	बुटवल ७२	<i>[Signature]</i>
१५	शारदा खनाल	४९	राष्ट्रिय	बुटवल ७२	<i>[Signature]</i>
१६	जोता बेल्लाम (पौडेल)	४२	अद्वय	बुटवल ७२	<i>[Signature]</i>
१७	गंगा थापा	३३	"	"	<i>[Signature]</i>
१८	सिम्रता खनाल	१७	विद्यार्थी	"	<i>[Signature]</i>
१९	शैशवी भुण्डारी	१८	विद्यार्थी	"	<i>[Signature]</i>
२०	कौसल्य खनाल	१८	"	"	<i>[Signature]</i>
२१	पुष्पा पन्थी	१८	विद्यार्थी	"	<i>[Signature]</i>
२२	अरुणता पौडेल	१८	"	"	<i>[Signature]</i>
२३	तारा प्र. अग्रणी	५९		बुटवल ७२	<i>[Signature]</i>
२४	कल्याण प्रसाद पौडेल	४०	सल्लाहकार	बुटवल ७२	<i>[Signature]</i>
२५	सीता कोइल	४०	बुटवल	बुटवल - ७२	<i>[Signature]</i>
२६	दुर्गा देवी शाह	४२	सचिव	बुटवल - ७२	<i>[Signature]</i>

२७ नरहरि प्रसाद पौडेल ४० अग्रणी बुटवल - ७२

पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरसिङ्गे (५० कि.मि. सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (EIA) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०६८-०५-०६

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : बुटवल उपमहानगरपालिका

वडा नं.: १३

स्थान : वडा कार्यालय, बेलवाले

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरु :

- १) सडकले जस्तै गर्ने घर टहरा तथा अन्य भौतिक संरचनाहरूको क्षतिपूर्ती दिनु पर्ने ।
- २) सडक हेडमा रहेका प्रतिस्नातकको उचित व्यवस्थापन गरीनुपर्ने ।
- ३) सडकमा रहेका श्वानपानीका पाइप, सिचाई कुलो तथा (ड्रिन्किंग) टाँकीको उचित व्यवस्थापन गरीनुपर्ने । साथै (बजुरी, टेलिफोनका ताल तथा बेलको) व्यवस्थापन गर्नु पर्ने ।
- ४) सडक निर्माणको क्रममा स्थानीयवासीलाई प्राथमिकता दिनुपर्ने ।
- ५) यस सडकमा शाखा सडकहरूको पानीलाई निष्कास हुने गरी यस सडकको बायाँको design गरीनुपर्ने । साथै शाखा सडकलाई निर्माण चरणमा अवरोध हुन नसुम्ने ।
- ६) यस सडकमा घरै पस्नेहरू रहेकोले विद्यार्थीको सुरक्षाका लागि zebra crossing लगायत अन्य सडक सुरक्षाका उपायहरू लागु गरीनुपर्ने ।
- ७) सडक किनारमा रहेका सौताय उठाउदा सडकबाट हटाउनु पर्ने साथै लोको क्षतिपूर्तीका लागि आवश्यक हरीदाली प्रदानका कार्यहरू लागु गरीनुपर्ने ।
- ८) सडकमा निर्माण गतिविधीको क्रममा निस्कने धुँवाँ धुँलोको पूर्ण नियन्त्रणका लागि आवश्यक उपायहरू लागु गरीनु पर्ने ।
- ९) सडक निर्माणको क्रममा वन्य विनाश गर्न गरीनुपर्ने । साथै सडक निर्माण अर्थात् विभिन्न हुनुपर्ने ।
- १०) तथा दुर्घटनालाई न्यूनीकरण गर्न सकिने, सडक निर्माण अर्थात् विभिन्न हुनुपर्ने ।
- ११) सडकको मुख्य चौकमा overhead / underpass को व्यवस्था गरीनुपर्ने ।
- १२) स्थानीय कामदारलाई आवश्यक तालिम दिई माथोतनामा रोजगारी दिनुपर्ने ।
- १३) यस सडकमा पानी जम्ने विकराल समस्या रहेकोले उचित drain management को व्यवस्था गरीनु पर्ने ।
- १४) सडक निर्माण गुणस्तरीय हुनुपर्ने र भार खान सक्ने गरी निर्माण गरीनुपर्ने ।
- १५) सडक दुर्घटना न्यूनीकरण गर्ने उपायहरू road design मा समावेश गरीनुपर्ने ।
- १६) सडक हेडमा रहेका पुराना झुल्ला (जिरेको) ला.प (बजुरी) को क्षतिपूर्तीका लागि (नयाँ) को व्यवस्थापन गरिनुपर्ने ।
- १७) सडक निर्माण, व्यवस्थापन स्थानीय समिति/समाजिक गट निर्माणको कार्य गरीनुपर्ने ।
- १८) निर्माण, व्यवस्थापन स्थानीय समिति/समाजिक गट निर्माणको कार्य गरीनुपर्ने ।
- १९) निर्माण, व्यवस्थापन स्थानीय समिति/समाजिक गट निर्माणको कार्य गरीनुपर्ने ।
- २०) निर्माण, व्यवस्थापन स्थानीय समिति/समाजिक गट निर्माणको कार्य गरीनुपर्ने ।

पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरखिडे (५० कि.मि.सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०७८/०९/२७

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : ~~सुर्खेत नगरपालिका~~

वडा नं. : ५

स्थान : नगर कार्यपालिकाको कार्यालय
बुटवलनगर, स्यान्डेही

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरु :

- १) सडकको मापदण्ड मित्र, रैदीका विद्युत, खानेपानी, टेलिफोन, सिंचण सरोकारका संस्थाहरूबाट सम्बन्धित विभागहरूसँग आयोजनाले समन्वय गरी, समस्या समाधान गर्दै निर्माण कार्य सुरु गरिनुपर्ने।
- २) आवश्यकता अनुसार पुरानो home pipe हरूलाई टुटोस्तर तथा Culvert हरूको निर्माण गरिनुपर्ने।
- ३) २० कि.मी सडक खण्डलाई टुटोस्तर खण्ड खण्डमा विभाजन गरी विभिन्न निर्माण व्यवसायीलाई दिनुपर्ने।
- ४) सडक खण्डलाई निश्चित समयमा सुरु गरी निश्चित समयमा सम्पन्न गरिनुपर्ने।
- ५) धुलो, धुँवाँ तथा ध्वनि प्रदूषण नहुने गरी उचित प्रविधिको प्रयोग गरी निर्माण कार्य गरिनुपर्ने।
- ६) आवश्यकता अनुसार प्रमुखीप बस्तीहरूमा, आकाशो पुल, underpass को व्यवस्था गरिनुपर्ने।
- ७) बजार क्षेत्रमा नाली तथा sewer drainage management को व्यवस्था गरिनुपर्ने (नजिकका नदिमा पानी खसार्नुपर्ने)।
- ८) डाईभर्सनको सुविधा/विकास बिकानेर पुल निर्माण गरिनु पर्ने।
- ९) स्थानीय कामदारहरूलाई दहतको आधारमा रोजगारको व्यवस्था गरिनुपर्ने।
- १०) विभिन्न बस्ती र टोलमा प्रवेश गर्ने चोक र सडकहरूमा अझोरोध नगरी सडक निर्माण गरिनुपर्ने।
- ११) बिजुलीको तार, टेलिफोन तथा इन्टरनेटको तारहरूलाई भूमिगत गरिनुपर्ने।
- १२) यस नगरपालिका भित्र सम्पूर्ण ५० मिटर भित्रको क्षेत्रमा ६ लेनको सडक निर्माण कार्य गरिनुपर्ने।
- १३) सामाजिक आर्थिक आधारभुत सर्वेक्षण तथा पुर्तवासको चेकमा दलगत तथा आवश्यक लगत लीन कार्यमा सहयोगको लागि अनुरोध छ।
- १४) कौठी अड्डामा विभिन्न अड्डाली आवाजजावन हुने हुँदा underpass/animal pass को व्यवस्था गरिनुपर्ने।




०८/१२/७८


२०७८

पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरखा (१० कि.मि.सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०६८-०५-०६

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : सुर्खेत नगरपालिका

वडा नं. : १

स्थान : वडा कार्यालय, सुर्खेत नगरपालिका

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरु :

- १) वर्षातर्फ सडकको उत्तरतर्फ रहेको बालीबस्ती हुन सक्ने सम्भावनालाई ध्यान दिएर सडकको उत्तरतर्फ उचित व्यवस्थापन गरीनुपर्ने।
- २) सडक निर्माण पूर्व सडकको रहेको खानेपानीको पाइपलाइनको उचित व्यवस्थापन गरीनुपर्ने।
- ३) सडक निर्माणको क्रममा प्रदूषण तथा फोहोरको उचित व्यवस्थापन गरीनुपर्ने।
- ४) सडक निर्माण तथा बिहताउको क्रममा जल (वा शक्ति) भएका धाट्टाहरुको उचित सुरक्षा दिनुपर्ने।
- ५) सडक निर्माणको क्रममा धुँवाँ/धुल्लाको पूर्ण नियन्त्रण गरीनुपर्ने।
- ६) वनकट्टा सुर्खेत नगरपालिका, आकाशपोखरी निर्माण गरीनुपर्ने।
- ७) सडक हेड तथा मुल्य चिह्नको ठोला स्थापना गर्दा (गरी) जिविकोपार्जन गर्ने परीषदको व्यवस्थापन गर्ने उपायहरु लागु गरीनुपर्ने।
- ८) सडकको रहेको प्रतिशालपको व्यवस्थापन गरीनुपर्ने।
- ९) भन्ने बडामा बिफ्न परीषदको उल्लेख संख्या रहेको छी (भी) परीषदको, शौचालयको लागि आवश्यक व्यवस्था तथा कार्यक्रमहरु लागु गरीनुपर्ने।
- १०) सडक निर्माण निश्चित समयमा सम्पन्न गरीनुपर्ने र वेन्डीकरण गरी गर्दा उपयुक्त हुने।
- ११) सडकको level मुताबिक माथारमा गरीनुपर्ने। सडक निर्माण क्रममा ठाउँको बालीबस्ती सडक माथि वा तल पर्ने नहुने।
- १२) सडक निर्माण पूर्व २० मीटर चौडाई clear रहेर मात्र निर्माण कार्य गरीनुपर्ने। लाई underground गर्ने वा व्यवस्थापन गर्ने।
- १३) सडक निर्माणको क्रममा ढाडनुपर्ने Telephone/electricity pole, ताट, का लाई खानेपानीको पाइप र ठूलो व्यवस्थापन लाफन्दी लाग्ने project design मा समावेश गरीनुपर्ने।
- १४) सडक हेडको रहेको ढाडनुपर्ने शल्लोको क्षतिपूर्तिको लक्ष्य, आवश्यक वृक्षारोपण गरीनुपर्ने।
- १५) सडक बिधाली प्रयोग गर्ने भएमा सडक हेडको सुरक्षाको लागि आवश्यक उपायहरु लागु गरीनुपर्ने।
- १६) सडक हेडको रहेको प्रदि र अन्य संरचनाहरुको संरक्षण गरीनुपर्ने।
- १७) सडक design अपाईमैत्री हुनुपर्ने। र सडक सुरक्षाको आवश्यक उपायहरु लागु गरीनुपर्ने।
- १८) सडकको बाटो अगाडि camp गर्ने। बाटोप सफासुथार्थ भएर गर्नु।

सुर्खेत नगरपालिका
वडा नं. १

अधीता विष्ठा गंगा माया
सुर्खेत नगरपालिका

पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरुशिङ्गे (१० कि.मि.सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०६८/०५/२६

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : सैनामैना नगरपालिका

वडा नं. : २

स्थान : उच्चडोहवा
(वडा कार्यालय)

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरु :

१. आयोजना संचालनको क्रममा सडक मापदण्ड निजै पर्ने खाने पानी, बिधुल, टुल, टोलीकोन इन्टरनेट, अष्टिको प्लाटम, कन्स्ट्रक्सनलाई सम्बन्धीत निकाय सँग समन्वय गरी आवश्यक व्यवस्थापन गरी निर्माण गरिनु पर्ने।
२. सडक निर्माणको क्रममा वस्ती तथा टोलमा पर्नेसमेत वातावरणीय प्रदूषणको प्रभावलाई ध्यान दिई प्रदूषण रोकित प्रक्रिया काट निर्माण गरिनु पर्ने।
३. बिभिन्न वस्ती र ठेकागा हिउँ थोक र गल्तीहरूमा अवरोध नगरी स्पष्ट निर्माण गरिनु पर्ने।
४. स्थानीय कामदारलाई दशलाको अवस्थाका कामको अवसर दिनु पर्ने।
५. सडक निर्माणको क्रममा निर्माण कार्य कामदारहरू द्वारा हुनसक्ने सामाजिक हिसा तथा अवसरान दिन क्रियाकलापलाई नियन्त्रण गरी अवसरालाई कायम गरिनु पर्ने।
६. सडक निर्माणको क्रममा बाक्ने १२५ को सिमाना देखी बढाउने १२५ को सिमाना समको केमट, ट्रेनको अवसरान गरी चसको राम्रो व्यवस्थापन गरेर यसको क्रम हुनसक्ने हुन सम्वन्धलाई नियन्त्रण गरिनु पर्ने।
७. सडक निर्माण कार्य खोजिमरण गरि गरिनु पर्ने।
८. आयोजना काट प्रत्यक्ष वा अप्रत्यक्ष प्रभाव पर्ने स्थानीय वासीलाई सचेतना, जिविकोपार्जन, सिपविकास सम्बन्धी सम्वेत्ता र प्रत्यक्ष आयोजना संचालन गरिनु पर्ने।
९. सडक मापदण्ड निजै पर्ने हाल सडकहरूको आयोजनाको निधम अवसर उचीत प्रवर्धन गरी अवसर, इतिहासको अवस्था गरिनु पर्ने।
१०. यसको क्रममा सिधालय क्षेत्र र थोकहरूमा सडक दुर्घटना घडी हुने गर्दोले रानी वगीश र अवसरान। आकाशेपुलाको व्यवस्था गरिनु पर्ने।

सैनामैना नगरपालिका
सुजनी

Gomdeo

सुजनी

सामुहिक छलफलमा उपस्थित सहभागीहरूको नामावली

क्र.सं.	नाम	उमेर	पेशा/पद	ठेगाना	हस्ताक्षर/सहिलक्षण
१	गोमदेव भुसाल		अ.ए.रा.ए.	सैनामैना २	Gomdev
२	राज क. ओझी		उ. क. संघ	"	
३	सुजनी थापा		क. संघ	"	सुजनी
४	विमल ज्ञवाली		क. संघ	"	
५	हिरा क. पादिकारी		सोनी भा. संघ	सैनामैना - २	हिरा क.
६	कैश राज पौडेल		क. संघ	"	कैश राज पौडेल
७	डा. प्र. म. रा. रा. रा.		स. संघ	"	
८	न. न. न. न. न. न.		स. संघ	"	
९	म. म. म. म. म.		वि. संघ	"	
१०	वि. वि. वि. वि. वि.		वि. संघ	"	
११	कृष्ण प्रसाद ज्ञवाली		स. संघ	सैनामैना - २	
१२	निलुपा थापा		स. संघ	"	
१३	ज. ज. ज. ज. ज.		स. संघ	"	
१४	शानेश्वर गिरी		स. संघ	"	
१५	कुल बहादुर विक्रम		"	"	कुल बहादुर

पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोर्खा (५० कि.मि.सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०६८-५-४

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : शेर्पाभैना नगरपालिका

पडा नं. : ३

स्थान : १३/ कायलिय, मुर्जिया

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरू :

- १) सडक निर्माण तथा विस्तार गर्दा रवात्रेपानी र हल्का संरचनाहरूलाई कुनै झल पड्नेमा रोक लगाई व्यवस्थापन र प्रभाव मापदण्ड स्वयंबाट हुनु पर्ने।
- २) सडक निर्माण कार्यमा (कार्यमा) स्थानीयवासीहरूलाई शीप, शीता तथा दस्ताना आधारमा रोजगारी दिनु पर्ने। र रोजगारीमा प्राथमिकता दिनु पर्ने।
- ३) सडक निर्माण गर्दा हुने धुँवाँ धुलीलाई पूर्ण नियन्त्रण गर्ने उपायहरू लागु गर्नु पर्ने।
- ४) सडकको निर्माण गर्दा सडक खण्डलाई पडिक्कण, गरीपमा धुवाँ, धुलाँ, दुर्घटना तथा traffic jam मा कमी आउने।
- ५) सडकको मुख्य चौक तथा पत्राट रैम्मा ताकाशीपुलको निर्माण गरीनु पर्ने।
- ६) सडक निर्माण गर्दा विद्युतका र टेलिफोनका तार तथा पोलहरूको मापदण्ड उचित व्यवस्थापन गरीनु पर्ने।
- ७) सडक निर्माण कार्य DPR रमाँजिमा गुणस्तरीय हुनु पर्ने।
- ८) आप्रोजना प्रभावित क्षेत्रका विपन्न वर्गलाई शीपद्वारा तालिमको व्यवस्था गरीनु पर्ने।
- ९) निर्माणको अवधी दियो र प्रदुषण रहित हुनु पर्ने।
- १०) सडकको मापदण्ड अनुसार over pass र under pass को व्यवस्था गर्नु पर्ने।
- ११) पत्र बडाको सडक खण्डमा रहेका ४ कुलोहरू (दुर्गा मन्दिर पूर्वमा रहेको पत्रागल कुलो; सारदेश कुलो, नमुना टोल, रामबती टोल) मा रैद्योकाको निर्माण गरी पानीको निकास गरीनु पर्ने।
- १२) सडकको रहेका बायोमेट्रीको crossing को विधिवत व्यवस्थापन गर्नु पर्ने।
- १३) सडक विस्तारमा रहेको क्षेत्रको संरक्षणमा उपयोजनाले सहयोग गर्नु पर्ने।

पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरूसिडे (५० कि.मि. सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०६१-५-३

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : खैनामेना नगरपालिका

पृष्ठ नं. : ४

स्थान : वडा कार्यालय, मुगुर्गि

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरु :

- १) सडक निर्माण गर्दा बाटोको निर्माण शुरू गर्ने गर्दा electric pole, telephone pole र अन्य काम गरी सो समयमा व्यवस्थापन गरीनुपर्ने।
- २) सडक निर्माण अवधि दौटी हुनुपर्ने - २,२ सिफ्ट गार्ड माप्ति (दो निर्माण गर्दा र थानीभवासीको सास्ती पर्ने नपर्ने।
- ३) सडक निर्माण गर्दा धुँवाँ पुलीको निर्माण गरीनुपर्ने जमकाट स्थानीयवासीको जनसम्पर्क गर्ने तरहेलार् काम गर्न गरिने।
- ४) सडक निर्माण गर्दा (बन्ड वगीकरण गरीसमावर्त गरीसमा) धुँवाँ पुली, traffic jam, गाडी बेचिने जस्ता समस्यालाई कम गर्न सकिने। सडकको समायोजन कमीमाथी।
- ५) सडकको मुख्य चोकमा traffic signal को व्यवस्था गरीनुपर्ने।
- ६) सडकको रडको रवानगीका pipe तथा टलको उचित व्यवस्थापन गरीनुपर्ने। र सडक निर्माण गर्दा पुराना टलकोलाई उठाए नपर्ने गरी निर्माण गर्दा उपयुक्त हुने।
- ७) सडकको आवश्यकतानुसार overpass, overhead bridge तथा under pass को व्यवस्था गरीनुपर्ने। overhead bridge को उचाई मापदण्डनुसार अड्काइनुपर्ने।
- ८) वर्षाको पानीको व्यवस्थापनको उचित उपायहरू road design मा समावेश गरीनुपर्ने।
- ९) सडकको मुख्य चोक तथा पत्रा संकेतमा आकाशपुलको व्यवस्था गरीनुपर्ने।
- १०) सडक निर्माण गर्दा परपीपल चौतारी तथा रडखतरा ठडानु पर्ने जस्ताले सोको जोषमनेकालागि सडक हेडमा वृक्षारोपणको कार्यक्रमबाट संचालन गरी ठरिपाली प्रवृत्त गर्नु पर्ने। सडक निर्माण गर्दा टलदल जमीनको राम्ररी संरक्षण गरीनुपर्ने।
- ११) सडक निर्माण गर्दा प्रदेश सरकार तथा स्थानीय सरकारसँग आवश्यक समन्वय गरीनुपर्ने।
- १२) सामाजिक न्याय, विजुलीका लाट, टेलिफोनका लाट, टल, बानेपानीको pipe को व्यवस्थापन लागि समन्वित कार्यक्रम तथा संस्थासँग आवश्यक समन्वय गरीनुपर्ने।
- १३) सडक निर्माण गर्दा heavy load को आलेक भार धान्ने गर्न सक्ने गरी road design गरीनुपर्ने।
- १४) सडक निर्माण गर्दा सडक गरीसमा भौतिक संरचनाको समन्वय तथा पुनर्निर्माण गरीनुपर्ने।
- १५) सडक निर्माण गर्दा गुणवत्तापूर्ण (मार्च) हुनु पर्ने। सडक निर्माण गर्दा प्रमुख निर्माण गरीनुपर्ने।

पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरूसिङ्गे (५० कि.मि.सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्यांकन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०६८-०५-०२

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : खैनामेता नगरपालिका

वडा नं. : ५

स्थान : १३/ काभलिय, बुटवल

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चारोका विषयहरू :

- १) सडक निर्माण गरिएको समय सम्पर्कमा सम्पन्न हुनुपर्ने।
- २) सडक निर्माणको क्रममा बाहिरी कामदारबाट हुन सक्ने सामाजिक (क्रिमीन) नियन्त्रण गरीनुपर्ने। सांस्कृतिक विहारीको पूर्ण रोकथाम गर्ने उपायहरू लागू गर्नुपर्ने।
- ३) स्थानीयवासीहरू सडक निर्माणको क्रममा शीप, शीशा तथा दस्ताना आधारमा रोजगारी प्रदान गर्नुपर्ने।
- ४) सडक निर्माण गर्दा निश्चित खण्डमा कठोरता गरी निर्माण गरीला भुँचा धुलो तथा कंक्रीट जलले गर्दा स्थानीयवासीहरू परे जाने समस्यालाई कम गर्न सकिने।
- ५) सडक निर्माण तथा संचालन क्रममा सडक सुरक्षाको आवश्यक उपायहरू लागू गरीनु पर्ने। सडक कालोपत्रा गरीनुपर्ने।
- ६) सडक निर्माण गर्दा भुँचा धुलोबाट हुने प्रदूषणलाई नियन्त्रण गरीनुपर्ने।
- ७) सडक इन्जा रहेका क्रिमीन पोल, टेलकोटका पोल, तथा तारहरूको underground गरी व्यवस्थापन गरीनुपर्ने।
- ८) सडकको मुख्य बाटोमा जम्का पुल / underpass को व्यवस्था गर्नु पर्ने।
- ९) सडक निर्माणको क्रममा कुल हुन सक्ने बिर्नेपानीको फारम, सिंचाई कुलोको उचित व्यवस्थापन गरीनुपर्ने।
- १०) वर्षालेको समयमा हुनसक्ने समस्या रोकाले सडको road design मा आवश्यक उपायहरू समावेश गरीनुपर्ने।
- ११) सडक निर्माणको क्रममा इल तथा drain को व्यवस्थापन गरी निर्माण गरीनुपर्ने।
- १२) सडकमा ठोक्ने प्रवृत्तको उपायहरू लागू गरीनुपर्ने।

सहभागीहरूको हस्ताक्षरहरू:

पूर्व-पश्चिम राजमार्ग स्तरोन्नति आयोजना अन्तर्गतको बुटवल-गोरसिङे (५० कि.मि.सडक खण्ड) को प्रारम्भिक वातावरणीय परिक्षण (IEE) अध्ययन र वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन (ESIA) अध्ययन गर्ने क्रममा स्थानीय जनसमुदाय तथा सरोकारवालाहरूसँग गरिएको सामुहिक छलफल

मिति : २०७८/०९/१५

उपमहानगरपालिका/नगरपालिका/गाउँपालिका : सैनामैना नगरपालिका

वडा नं. : ६

स्थान : वडा कार्यालय, कोलोनी (सपन्देही)

यस सामुहिक छलफलमा प्रस्तुत भएका राय, सुझाव र चासोका विषयहरु :

- १) सडक निर्माणको क्रममा खण्डीकरण गरी कार्य गरेर लौकिकको निश्चित समयमा सम्पन्न गरिनुपर्ने।
- २) सडक निर्माणको क्रममा खानेपानी, विद्युत, टेलिफोन, दल बिकास, सिंचाइसँग सम्बन्ध गरी निर्माण कार्य गरिनुपर्ने।
- ३) सडक निर्माणको समयमा एक साइडबाट सम्पन्न गरी अर्को साइडबाट निर्माण गरिनुपर्ने।
- ४) सडक निर्माणको क्रममा वातावरणीय सुरक्षाका साथ सडकका पानी दयाप्ने र धुवाँ, धुलो नियन्त्रण गरिनुपर्ने।
- ५) सडक निर्माणको क्रममा सडकको मापदण्ड भित्र पर्ने घर, छहरा, मन्दिर आदि व्यक्तिगत तथा सार्वजनिक र सामुदायिक संरचनाको उचित मूल्याङ्कन गरि आयोजनाको निम्न बमोजिम क्षतिपूर्ति दिनुपर्ने।
- ६) आयोजनाले सडक निर्माण कार्य गर्दा क्षताको आधारमा रोजगारी सृजना गरी स्थानीय कामदारलाई अवसर दिनुपर्ने।
- ७) स्थानीय स्थाना प्रत्यक्ष वा अप्रत्यक्ष प्रभाव पर्ने स्थानीय बासीहरूलाई वातावरणीय तथा सामाजिक रूपमा सचेतनामूलक एवं जिविकोपार्जन सँग सम्बन्धित सीप विकास मूलक तालिम र जिविका पार्ख मूलक कार्यक्रमहरू संचालन गरिनुपर्ने।
- ८) स्थानीय चौक र गल्लीबाट सडक पास हुने मुख्य चौकहरूमा पारिङ डोन (passing zone) तथा over pass र underpass को व्यवस्था गरिनुपर्ने।
- ९) सडक निर्माणको क्रममा सडक मापदण्ड भित्र पर्ने प्रतिष्ठान तथा अन्य सार्वजनिक संरचनाको उचित व्यवस्थापन गरिनुपर्ने।

देवप्रसाद
महेश्वर
सैनामैना नगरपालिका
वडा नं. ६
कोलोनी
सपन्देही

