

Environmental Compliance Monitoring Report

Semi-Annual Report

January 2020

Project Number: 51190-001

Nepal: Disaster Resilience of Schools Project

Prepared by the Central Level Project Implementation Unit (Education) of National Reconstruction Authority for the Asian Development Bank.

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ABBREVIATIONS

ADB	–	Asian Development Bank
BoQ	-	Bill of Quantities
CLPIU	-	Central Level Project Implementation Unit
DRSP	-	Disaster Resilience Schools Project
DSC	–	Design and Supervision Consultant
DUDBC	–	Department of Urban Development and Building Construction
DLPIU	-	District Level Project Implementation Unit
EA	–	Executing Agency
EARF	-	Environmental Assessment and Review Framework
EEAP	-	Earthquake Emergency Assistance Project
EMP	-	Environmental Management Plan
EPR	-	Environment Protection Rules
GON	–	Government of Nepal
GRC	–	Grievance Redress Committee
IA	–	Implementing Agency
IEE	-	Initial Environmental Examination
LOC	-	Land Ownership Certificate
MoSTE	-	Ministry of Education, Science and Technology
PAM	–	Project Administration Manual
PD	–	Project Director
PIU	–	Project Implementation Unit
PPE	-	Personal Protective Equipment
RE	-	Residence Engineer
REA	-	Rapid Environment Assessment
RECON	-	Re-construction
SE	-	Site Engineer
Sq. m.	-	Square Meter/s
SM	-	Safeguards and GESI Monitors
SSDP	-	School Sector Development Plan
TLC	-	Temporary Learning Center

TABLE OF CONTENTS

Executive Summary	iii
1. Introduction	1
1.1 Background	1
1.2 Objectives	1
1.3 Project category	2
1.4 Scope of activities and overview of project information	2
1.4.1 Scope.....	2
1.4.2 Implementation arrangements.....	3
1.4.3 Description of the environment	3
1.5 Project safeguards team	4
1.6 Overall project progress and status.....	10
1.6.1 Description of safety status of schools implemented.....	10
1.6.2 Environment, Health and Safety Status of the under construction schools in DRSP project districts	12
2. Compliance status of project.....	18
3. Compliance status with environmental loan covenants.....	20
4. Compliance Status with the Environmental Management Plan	25
5. Approach and methodology for environmental monitoring of the project	34
6. Monitoring of environmental impacts on project surroundings.....	34
7. Grievance Redress Mechanism	34
8. Complaints received during the reporting period.....	35
9. Summary of key issues and remedial actions.....	35

LIST OF TABLES

Table 1. 1: Project safeguard support team.....	5
Table 1. 2: Environment, Health and Safety status of DRSP District Schools	12
Table 1. 3: Quantitative information related to Environment, Health, and Safety	16
Table 2. 1: Compliance status with national environment requirement	19
Table 2.2: Summary of GRC1, GRC2 and Safeguards Desk formation	19
Table 3. 1: Status of environmental loan covenants	20
Table 4. 1: Package-wise Contractor/s' representative	26
Table 4. 2: Environmental monitoring indicators and status as per EMP/IEE	27
Table 9. 1: Key issues and remedial actions.....	35

LIST OF ANNEXES

Annex 1: Photographs.....	36
Annex 2: Checklist of the Monitoring activity carried out by Safeguards Desk (Sample only) ...	40
Annex 3: Meeting Minutes and instruction provided to contractor maintaining safety.....	43
Annex 4: Safety Observation Checklist (Sample only)	46
Annex 5: Environment Safeguards Compliance Matrix	50

Executive Summary

1. The proposed project will improve disaster resilience of the school infrastructures and communities in the 14 districts of Nepal. The project is being financed for the school infrastructure investment, disaster risk management, and institutional strengthening and capacity building. More specifically, the project has targeted upgrading 130 schools through reconstructing and 180 schools through retrofitting the damaged buildings. Currently, the project has undertaken the reconstructions of 67 schools through first phase (RECON-01) while review of Due Diligence Report and updating of master plan for 107 schools is ongoing for the second phase (RECON-02). Moreover, the field investigation and survey work for the Retrofitting component is ongoing. The project has covered 8 districts namely, Kathmandu, Bhaktapur, Kavrepalanchok, Sindhuli, Sindhupalchowk, Okhaldhunga, Ramechhap and Dolakha in Recon1 while Nuwakot, Dhading, Gorkha and Makwanpur has been added in Recon2.

2. This project is categorized as Category “B” in terms of both Environmental Safeguards with the requirements of ADB SPS 2009. In accordance with ADB’s SPS 2009, an environmental assessment and review framework (EARF) is in place providing guidance for environmental screening, impact assessment, safeguard planning, and implementation. The Framework has considered the environmental management plan (EMP) suggested in the IEE. The government has endorsed the EARF.

3. All the proposed schools are situated in the hilly region of the country. As Nepal is among the most hazard-prone countries in the world; earthquakes, landslides and floods are the most common and severe hazards in the country. The frequency and intensity of weather-related hazards, notably landslides, floods and droughts, may increase in Nepal due to climate change. Seismic events have the potential to trigger secondary hazards including landslides, floods, and fires. However, there is no protected areas, wetlands, mangroves, or estuaries in or near the project sites.

4. Design Supervision Consultant (DSC) team consisting of Environment Safeguards Specialist/Expert at the TL office and District Level Safeguards and GESI Monitors. The monitors are filling the checklist on a monthly basis for each construction sites for EMP compliance monitoring which is being compiled and submitted in a monthly progress report. Further, the Monitors are filling Safety checklist daily for each of the under construction schools under RECON1.

5. The principal service of DSC is to support the CLPIU and 13 DLPIUs with comprehensive technical assistance to reconstruct, retrofit, and upgrade about 330 earthquake-damaged schools in the 14 earthquake most-affected districts of Nepal by providing technical and management assistance through technical surveys and assessment, development of architectural and structural designs, procedures and processes to rebuild affected schools, training and capacity building, procurement of civil works, construction supervision, and financial management of the project civil works.

6. During this semi-annual the DSC, with the assistance from the Safeguards Monitors carried out (i) update the Due Diligence Report of schools under RECON-01 and RECON-02, (ii) daily monitoring of safety of under construction schools filling safety checklist; and (iii) conduct meetings with contractors and schools for issues raised during the time of construction. In addition, DSC has conducted training and orientation to Safeguard Monitors, Site Engineers of DSC as well as site engineers from contractor from 67 schools under RECON-01. Technical, social and environmental safeguards issues raised during the time of construction were oriented and discussed during the training cum orientation.

7. There are 67 schools in RECON-01, under construction, however the progress is quite varied in that some schools are just completing the foundation works while others have completed the structural works and even begun the internal works such as brick and partitions. The major ongoing works are rebar and form works, concreting works, brick masonry works, installation of doors, windows etc. Whereas, updating of DDRs for RECON-02 school has been completed substantially. Preparation of package wise consolidated DDRs for schools under RECON-02 is under progress.

8. Safety is the major concern during the school construction activities under RECON-01; like excavation of trenches for the foundation; reinforcement works, rebar fabrication, concreting of

column, slab etc. As required, the contractors have taken life insurance policy cover in-groups in different life insurance companies. However, the construction contractor has provided PPE to the worker, the quality of PPEs need to be improved. While the contractors has first aid box in place.

9. Contractor have erected labour camps within the construction site and school building in most of the under-construction schools. The camps are constructed using zinc sheets in most of the cases and in few cases, the unused old building spaces have been allocated as the labour camps. Housekeeping of the construction materials is another main issue to be improved by the construction contractor. The main constrain of the housekeeping is to the lack of adequate space in some sites.

10. Moreover, issue related to landslide and gully erosion is existed close to the 16 under construction schools. However, the under construction school buildings are safe from landslide hazards. Good housekeeping is well maintained in 52 schools under construction. 66 schools are under construction emitting insignificant dust in the ambient environment. Similarly, 48 schools have established emergency phone numbers at the vicinity of under construction school compound. Labour camp is established close to the all under construction schools. 50 labour camps are operated maintaining hygiene kitchen and 48 labour camps have disposed waste generated from the kitchen safely. Construction contractor have made availability of first aid facility in 50 under construction schools whereas contractors in remaining school are requested to maintain such facility as soon as possible. Similarly, construction contractor have maintained good safety signboards in 34 under construction schools. Until date, no any fatal accident occurred due to the construction of schools under DRSP.

11. All the compliance status related to Environmental Management Plan as per IEE of project implemented under loan 3702 NEP has been monitored and complied.

1. Introduction

1.1 Background

12. The earthquake in April 2015 in Nepal caused 8,700 deaths and 22,500 suffered severe injuries. There was a physical damage costing more than \$7 billion mostly in 14 of the country's 77 Districts. The Government of Nepal (GoN) requested and received support from a number of development partners, including the Asian Development Bank (ADB), to address the impacts of the damages. The immediate ADB's response was to finance the Earthquake Emergency Assistance Project (EEAP) to support the rebuilding of schools, roads and district-level government buildings, and to strengthen the country's resilience to future disasters. This project was approved in June 2015 and is expected to complete by June 2019. The Disaster Resilience of Schools Project (DRSP) was conceptualized to support in disaster risk reduction and meeting the school reconstruction needs. The Project aims in achieving School Sector Development Plan (SSDP) objectives to improve the quality & access to school education and management. School safety is identified as an explicit objective in the 2016-2023 SSDP being implemented by the Ministry of Education, Science, and Technology (MoEST), Government of Nepal (GoN).

13. The proposed project will improve disaster resilience of school infrastructure and communities in 14 districts of Nepal. The project will finance the school infrastructure investments, disaster risk management, and institutional strengthening and capacity building. More specifically, it will upgrade 130 district schools through reconstructing and 180 schools through retrofitting the damaged buildings. Currently, the project has undertaken the reconstructions of 67 schools through first phase (RECON-01) while updating of Due Diligence Report and Master Plan for 107 schools has been undertaken for the second phase (RECON-02). Moreover, the field investigation and survey work for the Retrofitting component is ongoing. The project has covered 8 districts namely, Kathmandu, Bhaktapur, Kavrepalanchok, Sindhuli, Sindhupalchowk, Okhaldhunga, Ramechhap and Dolakha in RECON-01 while Nuwakot, Dhading, Gorkha and Makwanpur has been added in RECON-02. RECON-01 has started since October 2018 with the last contract award in February 2019 with construction period of 18 months.

14. The DSC recruited under the DRSP has reviewed the Due Diligence Report prepared for each school, Master Plan, BoQ, and bidding documents for the 107 schools planned to be undertaken in RECON-02. The DSC will prepare the design and drawings, BoQ, and bidding documents for Retrof1 and 2, provide assistance for bid evaluation of the RECON-02 and Retrof1 and 2, and supervise all RECON-01 and 02 and Retrof1 and 2 civil works contract packages. Altogether, there are 182 schools that have been identified for the reconstruction and 158 schools have been identified (tentatively) for the retrofitting works. These schools are spread over the 14 most earthquake affected districts. The contracts for the 67 schools under RECON-01 are in different stages of implementation. The design review of the 107 schools has been completed and so has the packaging been completed. Altogether 9 contract packages have been planned for tendering of RECON-02 which will be started from June, 2019 with a planned award in September, 2019.

1.2 Objectives

15. The major objective of the project is; increased disaster resilience of schools and communities and improved learning environment.

The project shall comprise;

- i. Reconstruction and improvement of heavily damaged schools, to include reconstruction of approximately 163 public schools (including improved facilities), and installation of solar power at approximately 130 schools;
- ii. Retrofitting of unsafe schools and reduction of disaster risk, to include development of retrofit for schools in hilly, mountainous and remote communities, retrofitting of approximately 138 public schools, and preparation and approval and field-testing of

- disaster risk management action plans in reconstructed and retrofitted schools; and
- iii. Strengthening of institutional capacity for disaster resilience, to include enhancements to the Borrower's Education Management information System to improve school building inventory, training of approximately 336 government engineers and engineers and approximately 336 masons for disaster resilient construction, development and endorsement of a comprehensive user manual for disaster risk reduction implementation in rural communities, and completion of a scalable pilot in approximately 3 schools on community driven retrofitting.

1.3 Project category

16. This project is categorized as Category B in terms of Environmental Safeguards with the requirements of ADB SPS 2009. Hence, an initial environmental examination (IEE) and environmental management plan (EMP) were prepared in ADB format. The IEE report had been disclosed in web in accordance with ADB's Safeguard Policy Statement (2009). The IEE report envisioned that the implementation of school infrastructure is expected to improve environmental sustainability and is unlikely to have significant adverse environmental impacts. Impacts, if any, will largely be short-term, local, and reversible and of low significance. 67 schools are awarded for reconstruction under RECON-01 whereas 107 schools have been selected for the reconstruction under RECON-02.

17. Similarly, the National Environment Protection Act, 1997 and Environmental Protection Rules, 1997, establish the requirement for environmental assessment in Nepal. The procedures are defined in the Environment Protection Rules, as amended. School Infrastructures requiring IEE level study according to EPR are::

- Construction of residential or commercial building and their combination with a built-up area or floor area between 5,000 to 10,000 sq. m.;
- Development of site with cutting or filling of more than 20,000 cum. earth;
- Construction of buildings above 10 stories or 25m height to 16 stories or 50m height;
- Construction work that may require clearing of up to 5 ha. forest area;
- Any construction works not listed in the schedule of EPR and that cost between Rs.50 million to Rs.250 million will require IEE whereas construction work more than Rs. 250 million will require EIA.

1.4 Scope of activities and overview of project information

1.4.1 Scope

18. The services by the DSC is to be provided over a period of four years of the DRSP project implementation. The principal service of DSC is to support the CLPIU and 13 DLPIUs with comprehensive technical assistance to reconstruct, retrofit, and upgrade about 330 earthquake-damaged schools in the 14 earthquake most-affected districts of Nepal by providing technical and management assistance through technical surveys and assessment, development of architectural and structural designs, procedures and processes to rebuild affected schools, training and capacity building, procurement of civil works, construction supervision, and financial management of the project civil works. The 14 districts currently targeted under the project are Dhading, Dolakha, Gorkha, Kathmandu, Kavre, Lalitpur, Bhaktapur, Nuwakot, Okhaldungha, Ramechhap, Sindhuli, Makawanpur, Sindhupalchok and Rasuwa.

1.4.2 Implementation arrangements

19. Environmental assessment and review framework (EARF) had been established in accordance with ADB's SPS 2009, to provide guidance for environmental screening, impact assessment, safeguard planning and implementation. The Framework has considered the environmental management plan (EMP) suggested by the initial environmental examination (IEE) prepared for the Project considering six sample schools from two project districts¹. The government has endorsed the EARF.

20. Design Supervision Consultant (DSC) Environment Safeguards Specialist/Expert has already been mobilized have prepared safeguard monitoring checklists covering all the issues mentioned in IEE and EMP. Moreover, Safeguards and GESI Monitors (one in each district of Recon1) have started monitoring for the safeguards issues during construction. The monitors have started filling of monitoring checklists for each school. They further have maintained daily safety observation checklists and instructed contractor for any rectification required in maintaining safety, occupational health of labour as well as any issue related to environmental safeguards (a sample attached in Annex 4). The monitors are filling the checklist on a monthly basis for each under construction schools and monthly progress reports are being submitted.

21. The IEE and DDR shows substantial net positive environmental benefit including;

- (i) Overall impact of the Project is anticipated to be positive with the community and students inclusive of the indigenous people benefitting by having good quality education in a decent learning environment. improved health and safety during construction;
- (ii) Impacts anticipated during implementation will be mostly reversible, of minor significance confined in subproject area for a short duration during construction phase only

22. The Safeguards Experts of the DSC, with assistance from the Safeguards and GESI Monitors are performing the following activities:

- (i) Training and orientation to contractor's site engineers, DSC site engineers, and Safeguards monitors.
- (ii) Updating of DDRs of 67 schools under Recon1 and 107 schools under Recon2.
- (iii) Filling up of the checklist by Safeguards and GESI Monitors prepared by Safeguards Experts ;
- (iv) Preparation of safety observations reports with photographic evidence and filling safety checklists;
- (v) Supervision and guidance to the contractors and workers to properly carry out the safety practices during construction; and
- (vi) Organizing formal and informal meeting and orientation in schools and DLPIU level.

1.4.3 Description of the environment

23. The proposed schools are situated in the hilly region of the country. As Nepal is among the most hazard-prone countries in the world; earthquakes, landslides and floods are the

¹ **Ramechhap District-** (i) Shree Secondary School, Jyamirekhani, Likhu Rural Municipality-6, (ii) Shree Tamakoshi Janajagriti Secondary School, Khimti Bazar, Likhu Rural Municipality-6, and (iii) Shree Secondary School, Sikral, Gelu, Manthali Municipality-12; **Dolakha District-** (i) Shree Aajadi Secondary School, Birauta, Melung Rural Municipality-7, (ii) Mahendrodya Secondary School, Mati, Bhimeshwor Municipality-5 and (iii) Kutidanda Secondary School, Makaibari, Bhimeshwor Municipality-12

most common and severe hazards in the country. The frequency and intensity of weather-related hazards, notably landslides, floods and droughts, may increase in Nepal due to climate change. Seismic events have the potential to trigger secondary hazards including landslides, floods, and fires. However, there is no protected areas, wetlands, mangroves, or estuaries in or near the school project sites under RECON-01, RECON-02, Retroft1 and Retroft2. The students will have a better school infrastructure with earthquake resilient safe classrooms, and improved basic facilities like water supply, sanitation, laboratories, libraries, and computer learning centres. Percentage of student enrolment may increase due to improvement in the learning environment and availability of better learning facilities. Improved school infrastructures will have beneficial impact upon students, teachers, and school and local communities.

1.5 Project safeguards team

24. The project safeguard team supporting the DRSP (L-3702 NEP) is presented in the following table.

Table 1. 1: Project safeguard support team

Sn.	Name	Designation/Office	Office no.	Email Address	Roles	
	CLPIU					
1.	Youb Raj Paudyal	Deputy Project Director, CLPIU		yrpauldyal@gmail.com	Implementing agency and will look after the overall safeguards compliance of the project.	
2.	Udhab Nepal	Civil Engineer, CLPIU		Edhab73@gmail.com		
3.	Suraj Parajuli	Engineer, CLPIU		surajparajuli327.sp@gmail.com	Environment Safeguards Focal Person	Safeguards Desk comprising focal persons at CLPIU will organize routine meeting at central and local levels, respectively, to review safeguard compliance performance, emerging issues, agree for corrective actions, and coordinate with technical team/contractors to implement them.
4.	Kiran Kumari Lekhak	Section Officer, CLPIU			GESI/Social Safeguards Focal Person	
	Name of DLPIU Unit Chief					
1.	Arjun Rajamajhi	Kathmandu	01-5242164	arjuneji5@gmail.com	GRC2-Chair	To support and resolve complaints/grievances as quickly as possible at the local level through a process of consultation; and, if that is not possible, to provide clear and transparent procedures for appeal.
2.	Guna Raj Pokharel	Lalitpur	01-5538417	pkrl.gunaraj@gmail.com	GRC2-Chair	
3.	Bharat Bahadur Shrestha	Bhaktapur	01-6614401	shresthabb2001@yahoo.com	GRC2-Chair	
4.	Yuba Raj Bagale	Dhading	010-521402	bagaleyb@gmail.com	GRC2-Chair	
5.	Dina Nath Gautam	Nuwakot	010-560347	dngreddhankuta@gmail.com	GRC2-Chair	
6.	Bishnu Prasad Mishra	Gorkha	064-420105	mishrabp53@gmail.com	GRC2-Chair	
7.	Badri Bahadur Pathak	Makawanpur	057-520869	bpathak071@gmail.com	GRC2-Chair	
8.	Dwarika Prasad Pokharel	Kavrepalnchowk	011-490117	dwarikapokharel164@gmail.com	GRC2-Chair	
9.	Govinda Raj Sedhai	Rasuwa	010-540086	govindaraj.sedhai@gmail.com	GRC2-Chair	
10.	Yam Bahadur Khadka	Sindhupalchowk	011-620085	khadkaybk@gmail.com	GRC2-Chair	
11.	Dev Kumar Baral	Dolakha	049-421795	debkumarbaral@yahoo.com	GRC2-Chair	
12.	Shiva Kumar Sapkota	Sindhuli	047-520640	sapkotashiba@yahoo.com	GRC2-Chair	
13.	Nirmal Kumar Ghimire	Ramechhap	048-540549	nirmire@yahoo.com	GRC2-Chair	
14.	Bal Bahadur Karki	Okhaldhunga		balabahadurkarki@gmail.com	GRC2-Chair	Responsible for monitoring compliance by using standard monitoring checklist prepared by ES for each individual school. The DLPIU will verify and submit safeguard monitoring report in a standard format to CLPIU and ADB. The reports will contain summary of work

Semi-annual Environmental Compliance Monitoring Report July-December 2019

Sn.	Name	Designation/Office	Office no.	Email Address	Roles
					progress during the reporting period, quality of safeguards compliance, recommended corrective actions, and follow-up on corrective actions agreed in the last report.
15.	Ajay Kr. Yadav	Engineer, DLPIU, Bhaktapur	01-6614401	ajay6456@gmail.com	Environment Safeguards Focal Person
16.	Shyam Babu Sha	Technical Assistant, DLPIU, Bhaktapur			GESI/Social Safeguards Focal Person
17.	Rajendra Shrestha	Engineer, DLPIU, Dolakha	049-421105	rajendra.stha158@gmail.com	Environment Safeguards Focal Person
18.	Pratik Raj Karki	Engineer, DLPIU, Dolakha			GESI/Social Safeguards Focal Person
19.	Sovit Shrestha	Engineer, DLPIU, Kavrepalanchok	011-490117	sovit09086@gmail.com	Environment Safeguards Focal Person
20.	Yadu Bikram Thapa	Engineer, DLPIU, Kavrepalanchok		yadu2038@gmail.com	GESI/Social Safeguards focal person
21.	Sagar Paudel	Engineer, DLPIU, Kathmandu	01-5242164	poudelsagar47@gmail.com	Environment Safeguards Focal Person
22.	Kopila Gyawali	Section Officer, DLPIU, Kathmandu			GESI/Social Safeguards focal person
23.	Anil Kumar Yadav	Engineer, DLPIU, Sindhuli	047-520640	yanil0070@gmail.com	Environment Safeguards Focal Person
24.	Durga Prasad Kafle	Section officer, DLPIU, Sindhuli			GESI/Social Safeguards focal person

Semi-annual Environmental Compliance Monitoring Report July-December 2019

Sn.	Name	Designation/Office	Office no.	Email Address	Roles	
25.	Sabin Lama	Engineer, DLPIU, Okhaldhunga	037-520236	mrnibas09@gmail.com	Environment Safeguards Focal Person	
26.	Om Prasad Gautam	Section officer, DLPIU, Okhaldhunga			GESI/Social Safeguards focal person	
27.	Sundar Shyam Ghimire	Engineer, DLPIU, Ramechhap	048-540549	ssghimire1971@gmail.com	Environment Safeguards Focal Person	
28.	Kumar Prasad Subedi	Non Gazzetted First class, DLPIU, Ramechhap			GESI/Social Safeguards focal person	
29.	Sher Bdr Pujara	Engineer, DLPIU, Sindhupalchwok	011-620085	sherp7@gmail.com	Environment Safeguards Focal Person	
30.	Monika Joshi	Sub-Engineer, DLPIU, Sindhupalchwok			GESI/Social Safeguards focal person	
31.	Indra Lal Maharjan	Engineer, DLPIU, Lalitpur	01-5538417	imaharjan55@gmail.com	Environment Safeguards Focal Person	
32.	Bichari Prasad Adhikari	Section officer, DLPIU, Lalitpur			GESI/Social Safeguards focal person	
33.	Baburam Devkota	Engineer, DLPIU, Gorkha	064-420105	baburamdevkota1@gmail.com	Environment Safeguards Focal Person	
	Jyoti Thapa Magar	Sub-Engineer, DLPIU, Gorkha			GESI/Social Safeguards focal person	
34.	Suman Pokhrel	Engineer, DLPIU, Nuwakot	010-560347	sumanp_1981@yahoo.com	Environment Safeguards Focal Person	
35.	Bodhraj Pathak	Section officer, DLPIU, Nuwakot			GESI/Social Safeguards focal person	

Semi-annual Environmental Compliance Monitoring Report July-December 2019

Sn.	Name	Designation/Office	Office no.	Email Address	Roles	
36.	Achut Raj Neupane	Engineer, DLPIU, Rasuwa	010-540157	neupane.achyut1990@gmail.com	Environment Safeguards Focal Person	
37.	Manohar Dhakal	Sub-Engineer, DLPIU, Rasuwa.			GESI/Social Safeguards focal person	
38.	Sandeep Adhakari	Engineer, DLPIU, Makwanpur	057-520869	ersaans@gmail.com	Environment Safeguards Focal Person	
39.	Harichandra Sapkota	Section officer, DLPIU, Makwanpur			GESI/Social Safeguards focal person	
40.	Nirmal Bogati	Engineer, DLPIU, Dhading	010-520124	nirvikalpa2013bg@gmail.com	Environment Safeguards Focal Person	
41.	Sher Bahadur Khatri	Sub-Engineer, DLPIU, Dhading			GESI/Social Safeguards focal person	
3. DSC-Safeguards Experts						
1.	Rikesh Chitrakar	Environment Safeguards Expert/KTM head quarter	01-5245144	chitrakar.rikesh@gmail.com	Implementation, monitoring and reporting of environmental safeguards works of DRSP Schools of L-3702 NEP	
2.	Ratna Meher Bajracharya	Social Safeguards Expert/KTM head quarter	01-5245144	ratna.mehar.b@gmail.com	Guide and monitoring and supervision of social safeguards works of DRSP Schools of L-3702 NEP	
3.	Prakash Panday	GESI Expert/KTM head quarter	01-5245144	ppanday029@hotmail.com	Monitoring, supervision and implementation of GESI action plan of DRSP Schools of L-3702 NEP	
3. DSC Safeguards and GESI Monitors						
1.	Ambika Ghimire	Sindhupalchok	9801860098	ambika.ghimire45@gmail.com	Supporting the project in implementing environmental and social safeguards requirements by educating, data collection and monitoring the activities during the construction phase.	
2.	Anjila Poudel	Okhaldhunga	9801860053	anjilap620@gmail.com		
3.	Deepa Katuwal	Ramechhap	9801860043	dipakat15@gmail.com		
4.	Nabina Karki Gautam	Bhaktapur	9801860059	karkinabina99@gmail.com		
5.	Nabina Tiwari	Kathmandu	9801860074	tiwarina123@gmail.com		
6.	Roshan Poudel	Sindhuli	9801860028	ros.pdl2003@gmail.com		
7.	Saroj Koirala	Kavre	9801860069	envsaroj@gmail.com		
8.	Shova Subedi	Dolakha	9801860079	shova9.subedi@gmail.com		

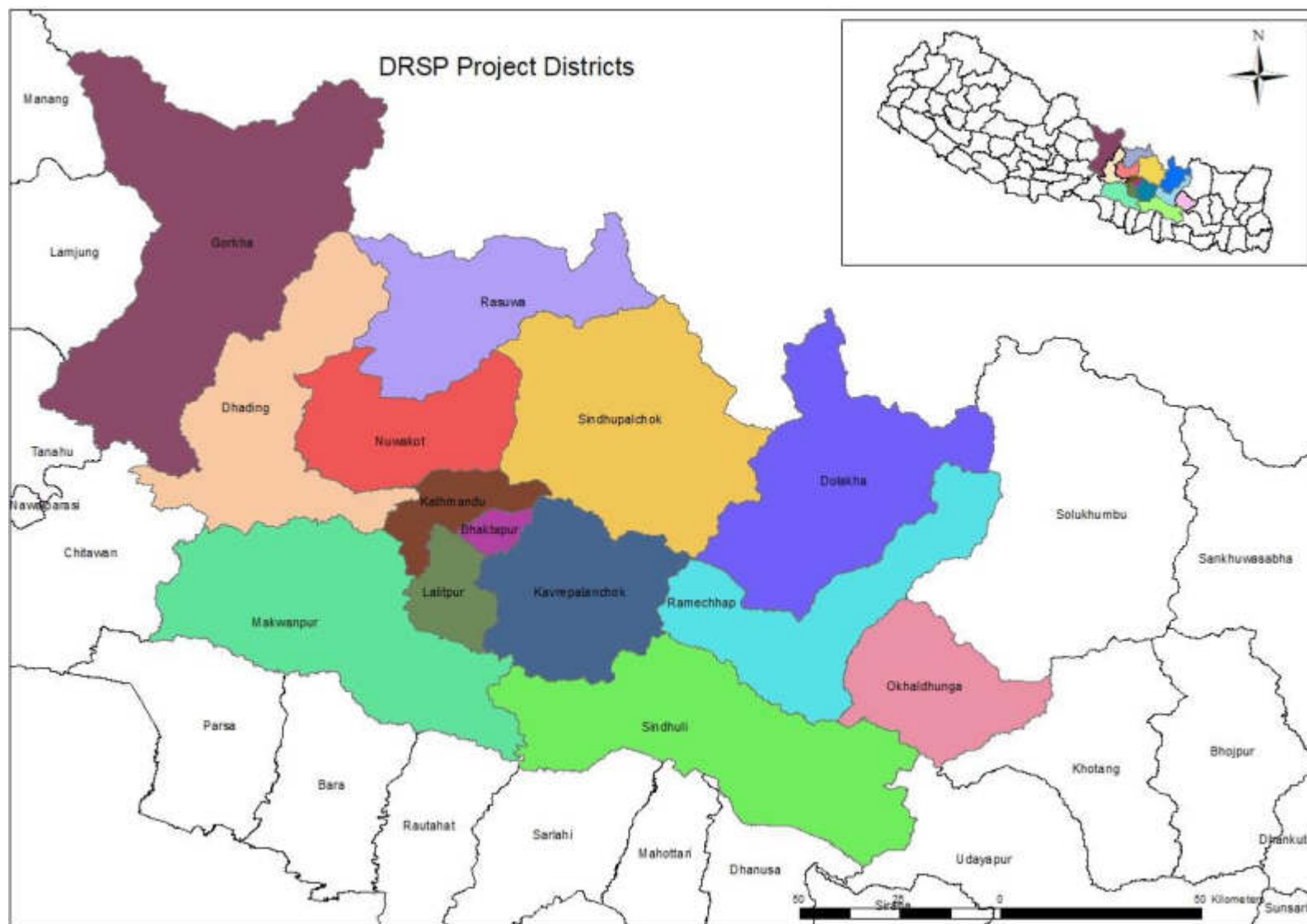


Figure 1-1: DRSP Project Districts.

1.6 Overall project progress and status

25. There are 67 schools in RECON1, under construction. The progress is quite varied in that some schools are just completing the foundation works while others have completed the structural works and even begun the internal works such as brick and partitions. The major ongoing works are rebar and form works, concreting works, brick masonry works, installation of doors, and windows etc. The contracts for the 67 schools under RECON-01 have been awarded and are in different stage of implementation. There are 6 ongoing contract packages which include 67 different school sites in RECON-01 spread over 8 districts. There has been an average Physical Progress of 62%, with highest being in Bhaktapur 85% and lowest being in Okhaldhunga with 23%. Approximately 63.88% of the time has elapsed except Okhaldhunga district i.e. 52.77% elapsed.

26. Updating of DDRs for RECON-02 school has been completed substantially. Preparation of package wise consolidated DDRs for schools under RECON-02 is under progress. Further, the initial design review of the 107 schools has been completed for RECON-02. The process of awarding contract for construction will go ahead after the approval of DDR for schools under RECON-02.

1.6.1 Description of safety status of schools implemented

27. Safety is the major concern during the construction activities of schools under RECON-01; like excavation of trenches for the foundation; reinforcement works, rebar fabrication, concreting of column, slab etc. Most of the under construction activities are done in traditional style using construction materials such as wood, ply wood, re-bars, iron poles and bamboo for the support of under construction permanent structures like slab and column and for barricade. Zinc sheets are being used by some of the contractors for fencing and barricading around the construction site. Contractors have constructed hard and soft barricades around the construction sites as per requirement and site conditions. Contractors are now strictly instructed for the installation of hard barricade at the edge of the concrete slab until the safe protection wall not been constructed. Unauthorized persons including schoolchildren are prohibited entering into the under-construction area. Most of the proposed school are operating in temporary learning centers (TLCs) with the under-construction school buildings situated within the school premises.

28. As required, the contractors have taken life insurance policy cover in-groups in different life insurance companies. The construction contractors have provided PPE to the workers, however, the quality of PPEs need to be improved. While the contractors had first aid box in place however, further improvement can be made on the adequacy as instructed. Instructions have given to maintain safety signboards around the construction site. The contractor have erected project information boards at the entry gate of under- construction schools. Emergency phone numbers is also in place in each under construction site in case of handling emergency situation.

29. Working at heights (as some of the buildings are 3 storied height- approx. 12m) is one of the major safety concern faced in all the under construction sites. As most of the contractors following the traditional practice of platform erection for the working at heights without harness and belts, the practice has become susceptible to potential accidents. Therefore, it is suggested to establish safety platform using local materials such as bamboo, wood etc. which should have the safety barriers to prevent falling. In addition, suggestions have been made to use harness while working height of more than 2 meters above the ground level.

30. Contractor have erected labour camps within the construction site and school building in most of the under-construction schools. The camps are constructed using zinc sheets in most of the cases and in few cases, the unused old building spaces have been allocated as the labour camps. Further, recommendation has been made to improve ventilation, lighting, and sanitation condition of the camp area. In a few cases, separate toilets are constructed with the excavation of pit and with zinc roof for workers whereas in most of cases the workers are using old toilets of the school.

31. Housekeeping of the construction materials is another main issue to be improved by the construction contractor. The main constrain of the housekeeping is to the lack of adequate space in some sites. However, contractors were instructed to maintain good housekeeping practices and managing all the construction wastes. There were significant number of used cement bags generated during the time of concreting of slabs and columns in the site. Therefore, the contractors were instructed to store the used bags properly and reuse as far as possible. Contractors have now started improving the housekeeping practices.

32. In some of the sites, the contractors have supplied potable water to labour workers in labour camps. Water has been supplied from water tankers for washing and kitchen purpose.

33. Any sort of non-compliance or safety issue are being closely monitored. A Health and Safety checklist has been prepared and the Safeguards and GESI Monitors have started using the same with contractor in the loop. The forms have been designed with compliance reporting with photographic evidences on a time bound action plan. The use of checklist has proven to be effective, thus the observed issues are being addressed, and complied.

1.6.2 Environment, Health and Safety Status of the under construction schools in DRSP project districts

Table 1. 2: Environment, Health and Safety status of DRSP District Schools

Issues	Okhaldhunga	Sindhuli	Ramechhap	Dolakha	Sindhupalchowk	Kavrepalanchowk	Bhaktapur	Kathmandu
Emergency telephone numbers in place	Contractors are requested for emergency telephone numbers in place soon. Meetings and minutes at filed level carried out in this regards.	Emergency numbers are in place.	12 schools out of 12 have emergency telephone numbers in place	Phone numbers of nearby health post, school teacher, contractor supervisor are in place in 10 out of 12 schools. 2 schools are instructed to comply soon.	Available in all school	All 10 schools have emergency telephone numbers in place. Other schools are instructed to comply soon.	Available in both under construction schools of Bhaktapur.	Available in both of the sites.
Insurance of the worker	Group insurance of workers	Yes.	Group insurance policy. In all 12 schools	Group insurance policy. In all 12 schools	labour insurance of all 8 schools- Sagarmatha Insurance Company	Contractors have verbally assured that group insurance has done. Instructed to make available purchase document soon.	Package insurance available in both sites	Available in both of the sites.
Tool Box Meeting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Barricading around the school	Zinc sheets, caution tape and bamboo are used for barricading; instructed to improve barricade around all the schools.	Instructed to improve barricade around the school.	Available in all sites instructed to improve	Barricading around the most of the schools were yet to be improved, whereas, some schools were barricade partially. Most Schools have practised partial site barricading and few schools had complete	Available in all site. Instructed to improve.	Partial Barricading in most of the school. Agreed for complete barricade soon.	Temporary barricades are removed because railing and fencing boundary installed.	Yes, in KUOR_67 but in KALI_66 has been removed for permanent fencing.

Semi-annual Environmental Compliance Monitoring Report July-December 2019

Issues	Okhaldhunga	Sindhuli	Ramechhap	Dolakha	Sindhupalchowk	Kavrepalanchowk	Bhaktapur	Kathmandu
				barricading. All the contractors supervisor is strictly instructed to barricade soon.				
First Aid Box	Instructed to improve the facility.	Instructed to improve the facility.	The entire site has got proper facility of first aid box. One of the site namely Tamakoshi Janajakriti SS is paying the money to nearby clinic in monthly basis for the treatment of workers	First aid box on place. Instructed to improve the facility.	Available	Instructed to improve the facility.	Available in both sites	Available
First Aider	Contractor personnel have been involving.	Contractor site Engineer/ Focal Person	Site Supervisor is responsible person for first aid	Site supervisor	Site in charge /supervisor	Site Supervisor	Safety supervisor	Site supervisor
Contractor's environmental assurance officer	Requested contractor to appoint the assurance officer soon.	Requested contractor to appoint the assurance officer soon.	Requested contractor to appoint the assurance officer soon.	Requested contractor to appoint the assurance officer soon.	Requested contractor to appoint the assurance officer soon.	Requested contractor to appoint the assurance officer soon.	Not yet available; however, requested to appoint.	Contractors SE is doing all the task relating to Environment and Social issues. In KALI_66 there is no SE. So, contractors' supervisor is instructed to implement safety.

Semi-annual Environmental Compliance Monitoring Report July-December 2019

Issues	Okhaldhunga	Sindhuli	Ramechhap	Dolakha	Sindhupalchowk	Kavrepalanchowk	Bhaktapur	Kathmandu
Establishment of camp	Camps are established providing bed, lighting and water facility including cooking facility. Spring water available for the construction. In some cases, camps are established in rental houses.	Camp established with bedding, washing, and cleaning and toilet facility within the school premises in old school classrooms.	Established with bedding material, lighting, cooking, washing, and bathing facility.	Bedding material, lighting, cooking, washing, bathing facility within the school premises in old school classrooms.	Bedding material, lighting, cooking, washing, bathing facility available.	Camp established with accommodation and cooking facility within the school premises in old school classrooms.	Bedding material, lighting, LPG Gas available, washing, bathing facility available.	Established nearby the construction site. Cooking, washing, bathing facility available.
Potable water supply and sanitation at the camp site	Contractors are requested to improve sanitation condition.	Available	Available	Available	Available	Available	Available in both sites	Available
Use of energy in camps and project site	Electricity, LPG, locally available firewood.	Electricity, LPG, locally available firewood.	Electricity, LPG, locally available firewood.	Electricity, LPG, locally available firewood.	Electricity, LPG, locally available firewood.	Electricity, LPG, locally available firewood.	Electricity, LPG for cooking.	Electricity, LPG for cooking.
Establishment of proper signage boards for safety	Instructed to install more safety boards around the school boundary and entrance gate in local language. Requested contractor to improve safety.	Instructed to have more safety boards around the school boundary and entrance gate. Requested contractor to improve safety.	6 schools out of 12 have got safety signage board. Other is being instructed to place within first week of December.	Instructed to have more safety boards around the school boundary and entrance gate. Requested contractor to improve safety.	Most of the site consists of safety signboard. Requested contractor to improve safety.	Instructed to have more safety boards around the school boundary and entrance gate. Requested contractor to improve safety.	Available in both sites.	Available.
Use of PPEs by workers	Instructed to improve use of PPE by worker.	Instructed to improve use	The use of PPEs by labour is improving. Orientation to	In most of the site labour were found using	Practised, but yet to be improved.	Most of the labour were found using the safety helmet, jackets	Regularly supervised	Yes, However, requested

Semi-annual Environmental Compliance Monitoring Report July-December 2019

Issues	Okhaldhunga	Sindhuli	Ramechhap	Dolakha	Sindhupalchowk	Kavrepalanchowk	Bhaktapur	Kathmandu
		of PPE by worker.	labours on importance of use of PPEs is being provided to change their perception regarding importance of PPEs	PPEs. Contractors are requested to orient labours on the proper use of PPEs.		and very few workers were using boot and gloves.	by safety supervisor.	contractor to provide sufficient PPEs during slab concreting.
Use of safety harness while working in scaffolding and above ground level	Made compulsory while working at height. However, still ground level concreting work is ongoing in most of the under construction schools.	Instructed to maintain safety platforms while working at height.	Labours are not familiar using safety harness. Instructed to maintain safety platforms while working at height.	Not familiar with safety harness, however, Instructed to maintain safety platforms while working at height.	Use of safety harness started in some schools. Instructed to use safety harness while working at height.	Instructed to maintain safety platforms while working at height.	Scaffolding and safety harness used while working at height	Instructed to maintain safety platforms while working at height.
Plans prepared prior to the implementation	Plan in place however, instructed contractor to revise the plan.	No	Implemented	Implemented	Yes	Implemented	Handle painting chemical safely	Yes
Air/Dust and Noise	Air pollution, and noise is acceptable limit.	Not significant pollution	There were no huge issues of pollution due to construction work in any sites	Low	No	There were no huge issues of pollution due to construction work in any sites	Both sites far from core city area	No air pollution but noise pollution is there during concreting day and Railing work.
Disturbance to existing traffic flow	No	Not significant impact	No	No	No	No	Both sites are quite far from core city area	No.
Housekeeping	Need more improvement	Moderate	Average	Fair, but needs improvement.	Average condition	In overall housekeeping was average	Maintained	Average

Semi-annual Environmental Compliance Monitoring Report July-December 2019

Issues	Okhaldhunga	Sindhuli	Ramechhap	Dolakha	Sindhupalchowk	Kavrepalanchowk	Bhaktapur	Kathmandu
Accident	No	No	No accidents till date	No Fatal Accident till date	No	No	No	No
Child labour	No	No	No	No	No	No	No	No
Grievances	GRM established; however no grievance.	GRM established no grievance.	GRM established; no grievance received yet.	GRM established; no grievance received yet.	GRM established no grievance.	GRM established; no grievance received yet.	GRM established; no grievance.	GRM established; no grievance received yet.

Note: Environment Safeguards Compliance Matrix has been maintained in Annex 4. The Okhaldhunga district has scored low in environment, health, and safety status than other DRSP districts.

Table 1. 3: Quantitative information related to Environment, Health, and Safety

DRSP Districts for RECON1	Number of schools	Landslide issue	Construction waste well managed	Good house keeping	No air and dust during construction	Emergency phone number established	Labour camp established	Labour camps with hygienic kitchen	Labour camps with hygienic toilets	Safe disposal of waste generated from labour kitchen	First Aid facility available	Good safety sign boards installed
Okhaldhunga	8	2	0	0	7	0	7	0	1	7	1	1
Sindhuli	13	3	11	8	13	8	13	11	12	10	13	4
Ramechhap	12	1	12	12	12	12	12	12	10	9	12	7
Dolakha	12	5	1	10	12	8	10	10	0	10	2	1
Sindhupalchowk	8	3	8	8	8	7	8	8	8	8	8	8
Kavrepalanchowk	10	2	10	10	10	9	10	5	2	0	10	9
Bhaktapur	2	0	2	2	2	2	2	2	2	2	2	2
Kathmandu	2	0	2	2	2	2	2	2	2	2	2	2
	67	16	46	52	66	48	64	50	37	48	50	34

34. The quantified data on environmental performance of the project is presented in the above **Error! Reference source not found..** Issue related to landslide and gully erosion is existed close to the 16 under construction schools. Sthanapati SS of Ramechhap is vulnerable to landslide hazard requiring significant protection. However, remaining under construction school buildings are safe from landslide hazards. Good housekeeping is well maintained in 52 schools under construction. 66 schools are under construction emitting insignificant dust in the ambient environment. Similarly, 48 schools have established emergency phone numbers at the vicinity of under construction school compound. Labour camp is established close to the all under construction schools. 50 labour camps are operated maintaining hygiene kitchen and 48 labour camps have disposed waste generated from the kitchen safely. Construction contractor have made availability of first aid facility in 50 under construction schools whereas contractors in remaining school are requested to maintain such facility as soon as possible. Similarly, construction contractor have maintained good safety signboards in 34 under construction schools. Until date, no any fatal accident occurred due to the construction of schools under DRSP.

a) Action taken by DSC:

35. Following actions were taken by DSC during this semi-annual in safeguarding environment of the project area:

- Orientation and coordination with contractors about the environment and social safeguards requirements and compliance in the contract.

- Three orientation cum technical workshops have been carried out targeting GESI and Safeguards Monitors and site engineers from DSC as well as from contractors. Each workshop conducted with two days session; the technical workshop conducted in Dhulikhel Lodge Resort, Dhulikhel of Kavrepalanchowk on 12 and 13 August 2019. The workshop conducted at Tal Resort in Mulkot of Sindhuli on 25 and 26 of August 2019 and finally on 19 and 20 September



Workshop at Mulkot, Sindhuli

- 2019 at Kavrepalanchowk in Arniko Hotel Resort targeting safeguards monitors and engineers from under construction schools under RECON1. Safeguards Monitors and site engineers are oriented in order to improve and enhance health and safety condition in all under construction schools under DRSP
- Regular monitoring of schools and filling of environment, social and GESI safeguards checklist (By Safeguards Monitors).
- Filling of safety observation sheet for any non-compliance and safety issue-instructing contractor to comply within stipulated time (By Safeguards Monitors).
- Aware workers to use Safety Gears.
- Aware contractors about ADB Safety policy.
- Consultation with Local people, Workers, Contractors representative.

b) Improvement after action:

- Installation of signage boards, barricading around the construction area and use of PPE by labour are under progress.
- Accommodation and sanitation facilities are being implemented at the site.
- Contractors were aware about the sending the report after resolving the issues that was reported by SM.
- Workers were aware about the facility that they have to get from contractor side.
- Cleanliness of Labour camp and surrounding.
- Physical safety barrier at the edge of slab of under construction schools are being constructed.

c) Some instructions to contractor regarding Health and Safety issues:

- **Barricade:** Contractors are instructed to install barricade around the trench excavated close to the building. Contractor are further instructed to install hard barricade around the school compound area to avoid unauthorized person entering into the school. At present most of the site are using bamboo to barricade. Construction of physical safety barrier at the edge of each slab and at staircase is instructed.
- **First Aid-** Contractors were instructed to improve first aid facility with availability of box in each construction site as well as to maintain the standard of first aid box.
- **OHS performance-** Contractors were also instructed to improve occupational health and safety performance of their own work and shall be documented and submitted to DSC every month.
- **Safety instructions-** Contractors were made aware and instructed to maintain safety with proper barricade and safety sign boards to be in place at all ongoing trench and manhole construction and excavation site and unattended excavated sites.

2. Compliance status of project

36. The environment safeguard requirements have been assessed and it has been found that the project has thus far complied with the statutory requirements related to the safeguard environment with the consequences due to construction works. Grievance Redress Committee at school level (GRC1) has been established in 66 school level. Establishment of GRC1 for Rajya Laxmi SS of Okhaldhunga is remaining and will be established soon after the updating RP and DDR. Similarly, GRC2 and Safeguards Desk have been established in all DLPIU.

37. Village Trail: Village/public road (foot trail) passes through the compound of Shree Ajadi Mavi, Melung Dolakha; Tamkoshi Janajgri Ma Vi, Khimti Ramechhap; Shree Ma Vi Jaymirekhani, Ramechhap and Jansudhar Lower Secondary School, Sindhupalchowk have been resolved significantly. The existing trails along the school have been shifted to the border of the school compound in order to use as link road by locals and villages to connect numbers of villages to market centers, health post, motorable road, planting, harvesting and doing other agriculture activities including selling farm products and buying daily necessary items from the markets. The existing trails are relocated to improve learning environment and children safety. In consultation with SMC and beneficiaries the design team has updated Master Plan of the schools shifting the trail to one side the school boundary ensuring the access continuity. There is no environmental issue with the shifting of trails. The meeting minutes regarding trail shifting and other details are presented in the SMR Social Safeguards.

Table 2. 1: Compliance status with national environment requirement

Project No.	Project Name	Statutory Environmental Requirements ²	Status of Compliance ³	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁴
51190-001	DRSP	Initial Environmental Examination (IEE). Initial environmental examination (IEE) prepared for the Project considering six sample schools from two project districts. No clearance, permit/consent, forest clearance permits are required.	In accordance with ADB's SPS 2009, an environmental assessment and review framework (EARF) is in place providing guidance for environmental screening, impact assessment, safeguard planning, and implementation. The Framework has considered the environmental management plan (EMP) suggested in the IEE. The government has endorsed the EARF.	N/A	N/A	No permission required

Table 2.2: Summary of GRC1, GRC2 and Safeguards Desk formation

Sn.	District Name	Number of school in RECON1	Formation of GRC1 at School level	Formation of GRC2 at DLPIU level	Formation of Safeguards Desk at DLPIU
1.	Okhaldhunga	8	7	Established	Established
2.	Sindhuli	13	13	Established	Established
3.	Ramechhap	12	12	Established	Established
4.	Dolakha	12	12	Established	Established
5.	Sindhupalchowk	8	8	Established	Established
6.	Kavre	10	10	Established	Established
7.	Bhaktapur	2	2	Established	Established
8.	Kathmandu	2	2	Established	Established
	Total	67	66		

38. GRC2 and Safeguards has been established in all DLPIU level. Similarly, GRC1 has been established in 66 schools among 67 RECON1 schools. GRC1 comprises 20% female members whereas GRC2 comprises 31% female among the members. GRC1 in Rajya Laxmi SS of

² Specify (environmental clearance? Permit/consent to establish? Forest clearance? Etc.)

³ Specify if obtained, submitted and awaiting approval, application not yet submitted

⁴ Example: Environmental Clearance requires ambient air quality monitoring, Forest Clearance/Tree-cutting Permit requires 2 trees for every tree, etc.

Okhaldhunga will be established soon after the resurvey for the preparation and finalization of RP together with DDR. However, no any grievances are recorded till date after establishment of GRCs.

3. Compliance status with environmental loan covenants

39. The compliance status with environmental and social loan covenants are presented in the following table.

Table 3. 1: Status of environmental loan covenants

Sn.	Covenants as Mentioned in Schedule 4	Status of Compliance	Action Required
Implementation Arrangements			
Procurement			
Loan Agreement Schedule 4, para 3	3. The Borrower shall not award any Works contracts which involves environmental impacts until: (a) The Borrower's Ministry of Forests and Environment, or other. responsible authority, has granted the final approval of the IEE; (b) the Borrower has incorporated the relevant provisions from the EMP into the Works contract; and (c) (i) the EA has established a safeguards desk at the CLPIU (Education) and the concerned local level PIU, and (ii) ADB has cleared the appointment of the contractor's proposed environment and safety officer for the Project.	(a) Environmental assessment and review framework (EARF) had been established in accordance with ADB's SPS 2009, to provide guidance for environmental screening, impact assessment, safeguard planning and implementation. The Framework has considered the environmental management plan (EMP) suggested by the initial environmental examination (IEE) prepared for the Project considering six sample schools from two project districts. The government has endorsed the EARF. (b) EMP has been incorporated in the civil works contract and the major items incorporated are presented in section 4. (c) Safeguards desk has been established at DLPIU. The contractors have appointed environment and safety officers only in few sites.	(a) No action required; however, REA checklist will be used for new schools identified for retrofitting. (b) No action required. (c) Establishment of safeguard desk has been completed.
Loan Agreement Schedule 4, para 4	4. The Borrower shall not award any Works contract that involves involuntary resettlement impacts, until the it has prepared and submitted to ADB the final RP based on the Project's detailed design, and obtained ADB's clearance of such RP.	Resettlement Framework (RF) has been prepared supplemented by a due diligence study in accordance with ADB SPS 2009 to provide guidance for social screening and impact assessment. As all 67 schools selected under Recon 1 were to be	Evidence of land ownership certificate (LOC) from most of the schools have been obtained, LOC from remaining concern

Sn.	Covenants as Mentioned in Schedule 4	Status of Compliance	Action Required
Implementation Arrangements			
		reconstructed within the existing boundaries of lands owned by respective schools there would not be any involuntary resettlement impact, displacement and loss of income sources to the people as described in DDR. However, some alterations in terms of location shifts within school boundaries are foreseen.	schools obtained and maintained in the Annex section of updated DDRs for all the schools under RECON-01.
Environment			
Loan Agreement Schedule 4, para 5	5. The Borrower shall ensure that 'the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to environment, health and safety; (b) the Environmental Safeguards; (c) the EARF; and (d) all measures and requirements set forth in the IEE and the EMP and any corrective or preventative actions set forth in Safeguards Monitoring Reports and other relevant Project documents.	All applicable laws and regulations of the Borrower relating to environment, health, and safety are to be applied, however contractor still need to improve the compliance in totality. Environment Safeguards Experts have been mobilized in the DSC team. EARF is being applied for assessment, monitoring and reporting.	Continuation of monitoring and reporting.
Land Acquisition and Involuntary Resettlement			
Loan Agreement Schedule 4, para 6	6. The Borrower shall ensure that: (a) All land and all rights-of-way required for the Project are made available to them. Works contractor in accordance with the schedule agreed under the related Works contract and all land acquisition and resettlement activities are implemented in compliance with (i) all applicable laws and regulations of the Borrower relating to land acquisition and involuntary resettlement; (ii) the RF; and (iii) all measures and requirements set forth in the RP, and any corrective or preventative actions set forth in the Safeguards Monitoring Report; and (b) No works involving involuntary resettlement impacts are commenced until ADB has cleared the final RP of each package.	No major land acquisition is involved in the construction activities under Recon 1.	Most of the schools have submitted land ownership certificates (<i>Lal Purjas</i>). Schools without land ownership certificate have provided land user right document issued by local government. All such document are maintained in updated DDRs of schools under RECON-01.

Sn.	Covenants as Mentioned in Schedule 4	Status of Compliance	Action Required
Implementation Arrangements			
Loan Agreement Schedule 4, para 7	<p>7. Without limiting the application of the Involuntary Resettlement Safeguards or the RP, the Borrower shall ensure that no physical or economic displacement takes place in connection with the Project until:</p> <p>(a) Compensation and other entitlements have been provided to affected people in accordance with the RP; and</p> <p>(b) a comprehensive income and livelihood restoration program have been established in accordance with the RP.</p>	No physical or economic displacement has taken place.	No action required as of now.
Indigenous People			
Loan Agreement Schedule 4, para 8	<p>8. The Borrower shall ensure that the Project does not involve any indigenous peoples' impacts within the meaning of the SPS. In the event the Project involves any such 17 Schedule 4 impacts, the Borrower shall take all steps required to ensure that the Project complies with the applicable laws and regulations of the Borrower and with the SPS.</p>	No major impact to the indigenous people is involved in the activities	No action required.
Labor Standards, Health and Safety			
Loan Agreement Schedule 4, para 9	<p>9. The Borrower shall ensure that the core labor standards and the Borrower's applicable laws and regulations are complied with during Project' implementation. The Borrower shall include specific provisions in the bidding documents and contracts financed by ~ ADB under the Project requiring that the contractors, among other things: (a) comply with the Borrower's applicable labor law and regulations and incorporate applicable workplace occupational safety norms; (b) do not use child labor; (c) do not discriminate workers in respect of employment and occupation; (d) do not use forced labor; (e) allow freedom of association and effectively recognize the right to collective bargaining; and (f) disseminate, or engage appropriate service providers to disseminate, information on the risks of sexually transmitted diseases, including HIV/AIDS, to the employees of contractors engaged under the Project and to members of the local Communities surrounding the Project area, particularly women. The Borrower shall strictly monitor compliance with the requirements set forth above and provide ADB with regular reports.</p>	Complied. DLPIU through its Design and Supervision Engineer (DSC) is supervising and monitoring the compliance of the labor, health, and safety law regulations. The project work complies with ADB's requirements and national laws & regulations.	Regular monitoring and supervision including reporting on labour, health, and safety will be required. Full time Safeguards and GESI Monitors at district level have been appointed in 8 Recon1 districts to support the DLPIU in these matters.

Sn.	Covenants as Mentioned in Schedule 4	Status of Compliance	Action Required
Implementation Arrangements			
Gender and Development			
Loan Agreement Schedule 4, para 10	10. The Borrower shall ensure that (a) the GAP is implemented in accordance with its terms; (b) the bidding documents and contracts include relevant provisions for contractors to comply with the measures set forth in the GAP; (c) adequate resources are allocated for implementation of the GAP; and (d) progress on implementation of the GAP, including progress toward achieving key gender outcome and output targets, are regularly monitored and reported to ADB.	Partially Complied. Community Awareness Consultant is in place, GESI action plan shall be implemented.	Effective implementation
Human and Financial Resources to Implement Safeguards Requirements			
Loan Agreement Schedule 4, para 11	11. The Borrower shall make available necessary budgetary and human resources to fully implement the EARF, IEE and EMP.	Safeguards experts in DSC have been mobilized; EARF is being implemented for assessment, monitoring and reporting and the EMP provisions incorporated in the BoQ.	Monitoring activity by Safeguards and GESI Monitors will be continued until the end of project.
Safeguards — Related Provisions in Bidding Documents and Works Contracts			
Loan Agreement Schedule 4, para 12	12. "The Borrower shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to: <ul style="list-style-type: none"> (a) comply with the measures relevant to the contractor set forth in the EARF, IEE and the EMP (to the extent they concern impacts or affected people during construction), and any corrective or preventative actions set forth in a safeguard monitoring reports and other project related documents; (b) make available a budget for all such environmental and social measures; (c) provide the EA with a written notice of any unanticipated environmental risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the EARF, IEE and the EMP; (d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and (e) reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction 	Complied. All bidding documents are prepared as per ADB Standard Bidding Document (SBD).	No action required.
Safeguards Monitoring and Reporting			

Semi-annual Environmental Compliance Monitoring Report July-December 2019

Sn.	Covenants as Mentioned in Schedule 4	Status of Compliance	Action Required
Implementation Arrangements			
Loan Agreement Schedule 4, para 13	13 The Borrower shall do the following: (a) submit semi-annual Safeguards Monitoring Reports for environmental ' and involuntary resettlement to ADB and disclose relevant information from such reports to affected persons promptly upon submission; (b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the EARF, IEE and the EMP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and (c) report any actual or potential breach of compliance with the measures and requirements set forth in the EMP promptly after becoming aware of the breach.	Mentoring and reporting will be done as per covenants.	Timely submission of quarterly and semiannual monitoring reports.
Grievance Redress Mechanism			
Loan Agreement Schedule 4, para 18	18. The Borrower shall ensure that, within 3 months after the Effective Date, the EA enhances its existing GRM to be acceptable to ADB, and forms grievance redress committees at all levels (central, local. and school) to receive and resolve complaints/grievances or act upon reports from stakeholders on misuse of funds and other irregularities, including grievances due to environmental impacts and land acquisition. The committee shall (a) make public of the existence of the GRM; (b) review and address grievances of stakeholders of the Project, in relation to either the Project, any of the service providers, or any person responsible for carrying out any aspect of the Project; and (c) proactively and constructively responding to them.	Partially complied. Grievance redress mechanism (GRM) established. A committee that constitutes the GRC2 in DLPIU to receive and resolve complaints and grievances has been formed. At the school level, formation of GRC1 committee is ongoing.	Effective implementation

4. Compliance Status with the Environmental Management Plan

40. All the compliance status related to Environmental Management Plan of project implemented under loan 3702 NEP is presented hereunder. IEE prepared for the project has already been disclosed in ADB website. All project related documents and loan agreements are available in <https://www.adb.org/projects/51190-001/main>

41. The EMP provisions mentioned in the BOQs are as follows.

Construction Period

1. Environment enhancement (including plantation, of trees, hedges, maintaining greenery, within the school compound) providing and laying of grass and bamboos near retaining wall. (BOQ no. Civil-General-1.2.1)
2. Providing and laying of grass (local dubo with the root carrying and anchoring with 8" bamboo peg and watering for 10 days on soil near retaining wall) (BOQ no. Civil Works-Turfing-24)
3. Insurance of Workers (BOQ no. Civil-General-1.2.1)
4. Barricading the construction area to maintain construction site safe and constructing toilet and camp for labour separately (BOQ no. Civil-General-1.2.2)
5. Providing all types of Personal Protective Equipment (Helmets, Gloves, Boots Safety glasses/face shields, earplugs, earmuffs, first aid tools) to the workers shall be minimum but not limited to 40 sets. Presence of first aid box in the sites. (BOQ no. Civil-General-1.2.4)
6. Provision of Project Information Board and Site safety notice boards. (BOQ no. Civil-General-1.2.3)

Operation Period

1. Provision of separate toilets for boys, girls, schoolteachers, and staffs. (BOQ no. Sanitary-Sanitary installation-2)
2. Provision of disabled friendly toilets. (BOQ no. Sanitary-Sanitary installation-1)
3. Provision of changing room and WASH (water, sanitation, and hygiene) facilities.
4. Good ventilation planned for classrooms (BOQ no. Civil Works-Doors and Windows-16)
5. Provision of Power Back up System (Solar PV Back up system) (BOQ no. Electrical works-Power Back up System -1)
6. Provision for the installation of incinerators for disposal of sanitary pads and training provided on its operation and maintenance.
7. Provision of dustbin, waste disposal pits etc.
8. Provision to minimize noise pollution during the operation (Tree Plantation, Greenery maintenance).
9. Provision for emergency during disasters (Fire Extinguisher, First Aid Kit, First Aid Bed). (BOQ no. Furniture-Miscellaneous-5.10) (BOQ no. Sanitary-Sanitary installation-22)
10. Provision of Earthing and lightning protection (BOQ no. Electrical works- Earthing and lightning protection-K)
11. Provision of water Filter with UV lamp and filter media (BOQ no. Sanitary-Sanitary installation-20)

Table 4. 1: Package-wise Contractor/s' representative

Sn.	Name According To Contract	Address	Person to address letter	Contact Email	Telephone
1	CONT_CONTECH_LUMBINI_8_SS_OKGA Contech Lumbini J/V	Okhaldhunga	Ashok P. Malla, Manoj Kumar Bhandari, Kharel	Ashokpmalla@gmail.com contechlumbiniokhl@gmail.com	9851048833 9851026587 9852020176
2	CONT_CONTECH_LUMBINI_13_SS_SILIU Contech Lumbini J/V	Sindhuli	Ujwal Aryal Ratna Gautam	info@khaninirmansewa.com	01-4465808 9851075478
3	CONT_SHARMA_KHANI_8_SS_SIWK&2_SS_KADU Sharma Khani J/V	Kathmandu	Subhash Bastola Jagat Buddha	info@khaninirmansewa.com	9851049620 9851062277
4	CONT_SHARMA_KHANI_12_SS_RAAP Sharma Khani J/V	Ramechhap	Abindra Basnet Amit Karki	abindrabasnet@gmail.com amitkarki06@gmail.com	9851121554 9851059539
5	CONT_SHARMA_SWACHHA_KHANI_10_SS_KARE&2_SS_BHUR Sharama-Swachhanda-Khani J/V	Kavre & Bhaktapur	Prakash Chandra Khanal, Ratna Gautam	info@khaninirmansewa.com	01-4465808
6	CONT_SHARMA_SWACHHA_KHANI_12_SS_DOHA Sharama-Swachhanda-Khani J/V	Dolakha	Yudhisthir KC, Amit Karki	ammitkarki@gmail.com	9841448101 9851059539
7	CONT_SHARMA_SWACHHA_KHANI_12_SS_RAAP Sharama-Swachhanda-Khani J/V	Ramechhap	Amit Karki Abindra Basnet	info@khaninirmansewa.com	9851059539 9851121554
8	KHANI-Sharma J/V	Sindhupalchok	Sanjeet Khadka, Project Manager	khadka.sanjeet1@gmail.com	

Summary of Environmental Monitoring Activities (for the Reporting Period)**Table 4. 2: Environmental monitoring indicators and status as per EMP/IEE**

Sn.	Environment Impacts	Measures proposed in IEE	Remarks
	Beneficial Impacts		
1.	Improved Infrastructure and Better Learning Environment	<ul style="list-style-type: none"> ┐ Basically, the Government prepared model school typical designs shall be implemented. ┐ School building and other facilities shall be children and disabled friendly. ┐ Toilets shall be separate for boys and girls at a comfortable distance. ┐ Permanent water supply system for drinking and sanitation shall be ensured in each school. ┐ The open spaces in the schools shall be landscaped with gardens and covered with vegetation to improve green cover and aesthetics of the school premises. ┐ A system of operation, cleaning and maintenance of the school buildings and facilities shall be developed in agreement with school management committees and the other responsible stakeholders. Separate and sufficient funds shall be allocated to upkeep the school environment. 	Disaster resilience building has been designed and are under construction with all proposed measures.
2.	Employment and Income Generation Opportunity	Priority will be given to local peoples	Priority has been given to locals wherever there are takers; however, labourers from outside are more.
3.	Increased Business Opportunities	<ul style="list-style-type: none"> ┐ Recommend the contractor to employ local people by giving emphasis on women and vulnerable groups; ┐ Ensure equal wages to male and female; ┐ Promote use of local products and facilities, particularly consumables items. 	Equal wage provided to male and female workers.
4.	Skills Enhancement	<ul style="list-style-type: none"> ┐ Workers will be encouraged to develop skill while working with international contractors through hands on training; ┐ EA may organize certified skill development training for workers in the project districts, increasing opportunity to get employment in semi or skilled job earning higher wage; ┐ Project may prepare construction manual with illustrative steps of performing the work in Nepali language on various construction disciplines. 	Workers are encouraged to develop skills during construction.
5.	Appreciation of Land Value	No measures proposed in IEE.	
	Adverse Impacts		
	Physical Environmental Issues		
6.	Landslide or gully erosion on slopes that may cause risk to the school infrastructure	<ul style="list-style-type: none"> ┐ Follow National Environmental Guideline for School Improvement and Facility Management for site selection, design, and monitoring activities. ┐ Avoid or maintain adequate distance from landslide or erosion areas. ┐ Adopt right angle of cut on slopes. 	Mitigation measures such as construction of retaining and gabion walls are applied close to Schools in

Semi-annual Environmental Compliance Monitoring Report January-June 2019

Sn.	Environment Impacts	Measures proposed in IEE	Remarks
		<ul style="list-style-type: none"> Stabilize slopes by engineering and bioengineering measures including check-dams. Measures taken to avoid undercutting of hill toes that may cause slides. Use check dam and channeling of water to avoid erosion and slides. Do not exert excess load on slopes by disposing spoil. 	Dolakha District ⁵ . Whereas, schools in other district are within the premises of old building owned by the school itself.
7.	Permanent and temporary land use changes	<ul style="list-style-type: none"> Do not dump spoil on surrounding agricultural land or open area; Landscape the school premises and keep as much open area as possible; Plant trees around the boundary and other possible areas to increase greenery. 	No significant change in land use identified.
8.	Impact on Soil and Top Soil	<ul style="list-style-type: none"> The topsoil from the areas of cutting and areas to be permanently covered will be stripped to a specified depth and stored in stockpile storage area located away from water course and drainage areas. The stockpile will be designed such that the slope does not exceed 1:2 (vertical to horizontal), and the height of the pile is to be restricted to 2m. Stockpiles will not be surcharged or otherwise loaded and multiple handling will be kept to a minimum to ensure that no compaction occurs. The stockpiles will be covered with gunny bags or tarpaulin. Such stockpiled topsoil will be returned to cover the disturbed area; Leakage of fuel, lubricants and chemicals on soil will be avoided by storing them on impervious surface with proper peripheral drainage; Grit chamber and oil sump will be provided in the chemical storage area to collect and remove waste material and oil before discharging water into natural drainages. The existing retention pond could also be utilized for sediment control; Spoil generated during construction will be used in reclaiming low lying areas. 	No impact on soil and topsoil, as most of the schools are under construction within the land owned by schools. Spoil generated during construction are reused and some are disposed safely.
9.	Impact due to solid waste and Stockpiling of construction materials	<ul style="list-style-type: none"> Haphazard disposal of construction materials will be strictly prohibited; Reuse the spoil and other materials. Maintain proper material storage system and ensure to control littering of construction materials outside the designated places; Stockpiling site of construction materials will be designated at demarcated place such that there will be minimum disturbances for day to day school activities; Provide solid waste container inside the construction site; Give health & Hygienic training to workers; Separate provision for collection and disposal of hazardous waste, if any, as prescribed by government rule and regulations. 	Construction materials are stockpiled safely without creating disturbance to local inhabitants.
10.	Drainage and Downstream Impact	<ul style="list-style-type: none"> Provide adequate drainage system to have minimum interference with natural drainage pattern within and around the school compound area; Avoid blocking or diverting water away from natural watercourse; Wastewater will not be allowed to be discharged in the open area; Drainage shall be discharged safely without causing soil erosion and landslide. 	No significant impact upon drainage and downstream identified yet.

⁵ 4 schools of Dolakha such as Bhim Ma Vi, Mahendrodaya Ma Vi, Kuttidanda Ma Vi, Mahendra Ma Vi have poor condition of slope stability. Problem foreseen is the possible landslide and mudslide especially during rainy season. Retaining wall and breast wall has been provisioned to enhance the slope stability.

Semi-annual Environmental Compliance Monitoring Report January-June 2019

Sn.	Environment Impacts	Measures proposed in IEE	Remarks
11.	Impact on air quality	<ul style="list-style-type: none"> ⌋ Good engineering practices will be adopted along with use of good quality fuel and regular maintenance of equipment and vehicles; ⌋ Water sprinklers will be used to suppress dust particles in construction area and at dust generating equipment; ⌋ Material transportation and dust generating construction activities will be scheduled to avoid impacts to communities living nearby the area; ⌋ Construction material will be covered during transportation or at storage sites; ⌋ Workers will be provided with face mask and goggles to protect them while working in high dust areas. 	Very low/no impact on air quality.
12.	Impact on Noise Level	<ul style="list-style-type: none"> ⌋ Cushions and good silencers or cover will be provided to suppress noise from equipment and vehicles; ⌋ Equipment and vehicles will be regularly maintained; ⌋ Construction equipment will be kept at considerable distance from settlements; ⌋ Workers will be provided with ear-muffler and earplugs while working in high noise area; ⌋ Schedule the noise generating work only during daytime and duration and frequency of operation of construction equipment will be minimized. 	Construction works are mostly carried out during daytime only where no one are allowed entry freely.
13.	Impact on water quality	<ul style="list-style-type: none"> ⌋ Seepage and spillage of chemicals, oil and lubricants will be avoided by storing them on impervious surface with proper drainage; ⌋ Water conserving technologies will be used during construction; ⌋ Washing of project vehicles in water bodies will be restricted; ⌋ Construction materials shall be stockpiled on impervious surface with surrounding drainage away from natural drainage to avoid them reaching in water bodies; ⌋ Sanitation facilities (pit toilets, or toilets with soak pits and septic tanks will be provided in labor and construction camps and work areas). 	No such impact identified.
14.	Handling of Construction Material and Safety of Workers	<ul style="list-style-type: none"> ⌋ All workers employed on mixing cement, concrete etc., will be provided with protective footwear and protective goggles. Workers, who are engaged in welding works, would be provided with welder's protective eye-shields; ⌋ Workers engaged in stone breaking activities will be provided with protective goggles and clothing; ⌋ The use of any toxic chemical will be strictly in accordance with the manufacturer's instructions; ⌋ A register of all toxic chemicals delivered to the site will be kept and maintained up to date by the Contractor. The register will include the trade name, physical properties and characteristics, chemical ingredients, health and safety hazard information, safe handling and storage procedures, and emergency and first aid procedures for the product. 	Contractors have the intentions to apply safety measures; however safety to be improved significantly. Contractors are instructed to improve maintaining barricade while working at height. Further, contractors are instructed to install hard barricade along the edge of concrete slab in order to avoid falling from height.

Semi-annual Environmental Compliance Monitoring Report January-June 2019

Sn.	Environment Impacts	Measures proposed in IEE	Remarks
15.	Closure of construction camp	<ul style="list-style-type: none"> Contractor will prepare site restoration plans for approval by the Engineer. The plan will be implemented by the contractor prior to demobilization; On completion of the works, all temporary structures will be cleared away, all rubbish burnt, excreta or other disposal pits or trenches filled in and effectively sealed off and the site left clean and tidy and at the contractor's expense to the satisfaction of the Engineer and as per the provisions of the contract; Residual topsoil will be distributed on spoil disposal area, barren areas as identified by the Engineer in a layer of thickness of 75mm – 150mm with proper turf and vegetation. 	Construction ongoing. Contractor will rehabilitate all the campsite after the completion of construction work.
16.	Pressure on Existing Public Roads	<ul style="list-style-type: none"> Install various appropriate traffic sign boards at public places wherever necessary; Avoid office hour to transport construction materials through heavy trucks/vehicles; Entry of heavy vehicles shall be restricted as far as possible during the peak office/school hours. 	Most of the schools are located in rural areas where traffic volume is very less. Hence, no pressure on public road traffic.
17.	Impact due to generation of solid waste	<ul style="list-style-type: none"> Waste generated from the school will be segregated and kept in different containers; Provide separate solid waste containers, for organic, inorganic reusable/recyclable and hazardous solid wastes. 	Solid waste generated from the camps disposed safely.
18.	Issue of E-Waste, Heavy Metals, Hazardous Waste management	<ul style="list-style-type: none"> Properly store and manage grease, paints and other construction materials; Install separate container for hazardous waste inside the school compound; Convert it to non-hazardous waste after treatment and then only send it to the disposal site designated by local authority; Give health, sanitation & hygiene training to students and workers; Promotion of recycling and reusing of recyclable and reusable material. 	No significant issue of hazardous waste is identified due to construction.
19.	Drainage Management and Impact on Water Quality	<ul style="list-style-type: none"> The rainwater could be managed for recharging groundwater; Excess water will be drained out through the drainage system; Keep school premises clean and periodically spray insecticide for controlling vector disease. 	No impact upon natural drainages due to construction.
20.	Impact on Air Quality and Noise Level due to Vehicular Movement	<ul style="list-style-type: none"> Use silencers to minimize sound of vehicles/machineries; Pre-informing the neighbors in case of event producing disturbing sound; Cover all the open space with vegetation; Do not allow vehicles (older than 20 years) to operate; Restrict use of horn near school area. 	The movement of construction of vehicle have less impact on air and noise and hence no significance.
21.	Water Demand/Supply	<ul style="list-style-type: none"> Project shall fulfill the water demand with provision of Sump well & pump if water has to be lifted from low lying rivers and springs; Water storage tank; Supply of water from other available sources; Practice rainwater harvesting. 	Contractor has supplied water in tankers wherever water is not available. However, in rural area; enough water is available from local springs.

Semi-annual Environmental Compliance Monitoring Report January-June 2019

Sn.	Environment Impacts	Measures proposed in IEE	Remarks
22.	Disaster Management (Fire, Earthquake)	1 Design shall include factor for ensuring seismic resistant school building following the National Building Code (NBC); 1 Ensure provision of emergency exist; 1 Install fire alarm system, firefighting system and adopt other necessary measures on fire safety; 1 Train student leaders and volunteers on tackling safety measures during emergency; 1 Conduct regular safety drills in the school; 1 Paste posters and telephone numbers of staff to be contacted during emergency; 1 Keep first aid box ready in the school.	All these measures are included in design and will be implemented accordingly.
23.	Solar Power	1 Employees/students/teachers will be encouraged to use water and electricity in an efficient way; 1 Use led bulbs instead of CFL; 1 Establish a mechanism for disposal of old batteries and acidic water.	Included in design and will be implemented accordingly during the time of operation.
	Biological Issues		
24.	loss of vegetation and impact on wildlife/bird	1 Plant trees at the periphery and garden of the school in order to increase green cover in the area; 1 Restrict the workers in killing or harassing of birds and wildlife; 1 Securely fence the school area; and 1 Regularly mow the grass.	No significant loss of trees and vegetation. Replantation items are incorporated in BOQ and will be implemented accordingly after the completion of physical construction works.
25.	Impact on wildlife due to increased human activities	1 Community and authorities will remain vigilant and alert on illegal felling of timber and killing of wildlife.	No impact on wildlife are identified
	Socio-economic Issues		
26.	Land Acquisition, Compensation and Reinstatement of Community Structures	1 Any land acquired voluntarily shall follow the established practice as guided by resettlement framework; 1 Contractor shall sign a MOU with landowner for depositing construction material or temporary deposition of spoil. The MOU shall be reported to the site engineer and include in monthly report.	No significant land acquisition issues are identified during construction. However, some schools are under construction acquiring new land have updated Master Plan; and land ownership certificate for every schools are presented in the DDR updated for each school under RECON-01. Local government has issues land user right to those schools not obtaining land ownership certificate till date.
27.	Occupational Health and Safety	1 The contractor will arrange proper camping facility with rooms having good ventilation, natural light, fan and mosquito net. Contractor will give priority to employ local workers, particularly poor and vulnerable people, which will reduce the need of	Labourers are provided with safety gears. First aid boxes are in place. However, contractors are instructed

Semi-annual Environmental Compliance Monitoring Report January-June 2019

Sn.	Environment Impacts	Measures proposed in IEE	Remarks
		<p>establishing labour camp. Clean drinking water supply, toilets and solid waste management facilities will be made available to the workers in their camps;</p> <p>└ Contractor will restrict use of firewood for cooking and heating and will supply kerosene or gas in the mess of workers;</p> <p>└ Contractor will supply food items to the camps giving priority to local products;</p> <p>└ All workers will be insured;</p> <p>└ Contractor will prepare and implement a safety plan approved by the Engineer including provision for emergency preparedness and response and fire safety;</p> <p>└ Safety gears will be supplied by the contractor to all workers in sufficient number depending upon the nature of work, and make it mandatory to use them;</p> <p>└ Firefighting facility and first aid box will be kept in camps and work sites with provision of a health assistant standby at call;</p> <p>└ Arrangement will be made by the contractor with local hospital or health post for services in case of emergency;</p> <p>└ Adequate security arrangement with fencing and lighting will be arranged around camp sites and material storage areas to ensure that unauthorized people and animals do not enter in the area and get exposed to the potential hazards of construction activities.</p>	to improve first aid facilities, OHS status in the construction site.
28.	Socially undesirable activities	<p>└ Restrict movement of workers out of camp after certain hours in the night;</p> <p>└ Restrict use of alcohol and gambling in the camp;</p> <p>└ Supply water , daily consumable items, communication facility in the camp so as not to create additional pressure on the local services;</p> <p>└ Orient workers to show respect to local tradition and culture;</p> <p>└ Prepare a code of conduct for all project staff, orient them and monitor that these are effectively followed by all;</p> <p>└ Assign a public relation officer by the project to keep close and regular consultation and coordination with local communities;</p> <p>└ Regular follow up and monitoring on workers behaviour and take appropriate measure on defaulters.</p>	No socially undesirable activities are identified during the construction.
29.	Properties of Archaeological Importance	<p>└ ADB's chance find procedure shall be applied;</p> <p>└ The contractor will take reasonable precaution to prevent his worker or any other staff from removing and damaging any such article or thing and will, immediately upon discovery thereof and before removal, acquaint the Engineer of such discovery and carry out the Engineer's instructions for dealing with the same, awaiting which the work shall be stopped 100 m all directions from the site of discovery;</p> <p>└ The Engineer will seek direction from the Archaeological Department before instructing the contractor to recommence work on the site.</p>	No significant issues identified related archaeology; however, dispute regarding shifting of Rajyalaxmi SS of Okhaldhunga; where locals (Ombule Rai community) oppose construction of school on preoccupied area due to the land adjoining to school comprising religious significance to them. In this regard, DSC experts

Semi-annual Environmental Compliance Monitoring Report January-June 2019

Sn.	Environment Impacts	Measures proposed in IEE	Remarks
			have conducted assessment and updating of DDR and RP is under progress.
30.	Gender and Child Labour	<ul style="list-style-type: none"> ⌞ Provide equal wage to male and female for similar nature of work; ⌞ Restrict use of child below 16 years of age in labor work (as per ILO standard); ⌞ Provide female friendly construction environment with separate toilet for women, and if possible, childcare facility for women with young babies, and suitable work categorization for women. 	Equal wage provided to male and female for similar work. No other issues related to gender and child labour.
31.	Health and Sanitation	<ul style="list-style-type: none"> ⌞ Provide sufficient numbers of and separate toilets in camps and work sites for both male and female; ⌞ Dispose construction debris at designated spoil disposal site; ⌞ Garbage collection system will be initiated by establishing bins at places in the construction area. 	Health and sanitation condition are maintained however, needs improvement in some of the under-construction school.
32.	Infection of STDs and Other Communicable Diseases	<ul style="list-style-type: none"> ⌞ Restrict alcohol, gambling and socially undesirable activities by workers living in labor camps, and instruct them not to indulge in such activities if they are living outside of labour camp; ⌞ Arrange awareness program to the workers and local communities on HIV/AIDS and STDs; ⌞ Erect posters on safety practices to prevent from STDs; ⌞ Distribute free condoms to workers as a part of educating them. 	No such issues identified.
33.	Impact on Social Facilities	<ul style="list-style-type: none"> ⌞ Regularly organize interaction programs between local people and other relevant personnel. ⌞ Coordinate with local social service providers and concerned government institutions to meet up the local demand of physical as well as social infrastructures. 	No impact on social facilities and other sites.
34.	Traffic Congestion and Management	<ul style="list-style-type: none"> ⌞ Work in co-ordination with the traffic police in planning and management of the traffic 	Road Traffic is not significant in the construction areas.
35.	Congestion and Overcrowding	<ul style="list-style-type: none"> ⌞ Manage the incoming and outgoing of vehicle according to the traffic rules 	Road Traffic is not significant in the construction areas.

42. Moreover, no significant climate change issues due to construction of school are identified.

5. Approach and methodology for environmental monitoring of the project

43. Within the scope of the Design and Supervision Consultant (DSC) the construction supervision of all construction including reporting to client is an integral part. The DSC team comprises of International & National Experts including Environment Safeguard Expert, Social Safeguards Expert, GESI Expert, Site Engineer (SE) for each under construction school, Resident Engineer (RE) and Safeguards and GESI Monitors designated for each project districts. Routine monitoring and reporting of all activities including the safeguard issues of all the school projects implemented under loan 3702 NEP is also one of the task of the DSC. Safeguards monitoring and reporting requirements has been carried as per EARF established for the DRSP.

44. Safeguards experts have ensure establishment of environmental safeguards mechanism in the project to monitor environmental safeguards of the subproject project works as guided by EMP. The experts will further ensure overall compliance with the government rules and regulations regarding environmental clearances. The monitoring activity detects environmental changes and estimated inherent variation within the environment, establishes long-term trends in the natural system, and derives conclusions by making comparison against a standard or a target. DSC has been submitting monthly monitoring and implementation reports to the DLPIU, who will take follow-up actions, if necessary. DLPIU will submit the quarterly monitoring and implementation reports to the CLPIU. The CLPIU will submit semi-annual monitoring reports to ADB. Project budgets will reflect the costs of monitoring and reporting requirements. Monitoring reports will be posted in a location accessible to the public.

6. Monitoring of environmental impacts on project surroundings

45. No impacts upon air, water quality, and noise has been identified with the construction activity of schools under RECON-01. The proposed schools' locations are situated in rural area where the population density is not as high as in the urban context of Nepal. Moreover, Environment Safeguards Compliance Matrix has also been prepared to present the overall environmental performance identifying each parameters as per Environment Management Plan presented in the IEE report. A specific score has been assigned to each indicator to present the performance on environment due to construction. The Ranking Score is; Poor= below 55; Average= 56-70, Fair 71-80; Good 81 -90, Excellent= above 90. The compliance matrix is presented in the Annex 4.

7. Grievance Redress Mechanism

46. There is a three tiers mechanism to address grievances related to affected persons (APs) in the implementation of the project. First level GRC1 has been formed at the school level comprising of 5 members. GRC1 is in place in all 66 schools under RECON-01. GRC1 in Rajya Laxmi SS of Okhaldhunga will be established soon after the resurvey for the preparation and finalization of RP together with DDR. The GRC1 is chaired by SMC chair, and DLPIU/DSC site in charge, head teacher, representative of parent's teachers committee and one representative from surrounding community are the members of the committee. The school head teacher will work as the member secretary of the committee. Similarly, second-level GRC2 has been formed at DLPIU comprising of 3 members to hear the unresolved grievances forwarded by the school level GRC1. The establishment of GRC at DLPIU (GRC2) is in place. DLPIU project manager will chair the GRC2, and DLPIU safeguard focal person,

DSC safeguard monitor will be the committee members. The DLPIU safeguard focal person will work as the member secretary of the committee. Similarly, third-level GRC will be formed at CLPIU comprising 3 members to hear the unresolved grievances forwarded by the DLPIU level GRC2. The GRC3 will be chaired by CLPIU project director, and CLPIU safeguard focal person, DSC safeguard expert will be the committee members. The CLPIU safeguard focal person will work as member secretary of the committee.

8. Complaints received during the reporting period

47. Till date no grievances related to the environmental and social issues have been received from the sites. Most of the construction works have been carried out within the pre-existing school land owned by the school itself and within the confined location. However, some schools are under construction acquiring new land have updated Master Plan; and land ownership certificate for every schools are presented in the DDR updated for each school under RECON-01. Local government has issues land user right to those schools having no land ownership certificate till date. The construction activities do not have any significant disturbance on the environment and to the local people.

9. Summary of key issues and remedial actions

48. The following table present summary of key issues and its remedial actions required.

Table 9. 1: Key issues and remedial actions.

Sn.	Key Issues	Remedial Actions	Remarks
1.	Safety during construction	Regular toolbox talks, proper PPEs to all labour workers	Construction contractor will be responsible for providing the PPEs to the workers as and when required. Safety status is to be improved by the contractors.
2.	Proper barricade along the construction sites and at the edge of concrete of each story height before construction of boundary walls and windows.	Provide safe barricading, installation of safety signboards, instruction boards, emergency numbers, and safety plans/procedures in place.	Contractors were instructed to install safety signboards, soft barricade as well as hard barricade for the unattended manholes and at the edge of concrete slab while works at height and edges.

Annex 1: Photographs



Fig 1: PPEs used by worker in Shree Pachakanya SS of Bhaktapur District



Fig 2: Worker using safety harness in Shree Devi secondary of Bhaktapur District



Figure 3: Students inside the TLC (JOOR-58). Kavre



Figure 4: Bhimendra (BHRA,43) Site barricading, Dolakha



Figure 5: Orientation to workers, Jalpa SS, kalimati, Okhaladhunga



Figure 6: Safety sign board; one of the school in Sindhupalchowk



Fig 7: First aid at Kalidevi SS, and Manakamana SS, Shree SS and Bahrati SS, Ramechhap



Fig 8: Workers with Proper PPEs at Sindhuli_SRIL

आकस्मिक सम्पर्क न हरु Emergency Contact Number					
S. N	Particulars	Contact No	विवरण	सम्पर्क न	
1	Police	011690998	पुली चौकी	०११६९०९९८	
2	Ward chairperson	9851085790	हस्त गाउँपालिका - बहालवासी	९८५१०८५७९०	
3	Principal	9841577191	कुलकर्णी श्रेष्ठ	९८४१५७७१९१	
4	Bishnu Lama	9803631843	बिष्णु लामा - (Co-ordinator)	९८०३६३१८४३	
5	Sumit Saurab Karna	9801860095	सुमित सौरव कार्ना - (Co-ordinator)	९८०१८६००९५	
6	Ambulance	9813643792	क्याम्बुलान्स	९८१३६४३७९२	

Fig 9: Emergency contact number established at BUYA_49, Sindhupalchowk



Fig 10: Tool Box meeting at Construction Sites JAAN_52, Sindhupalchowk



Fig 11: Emergency contact number, BUYA_49, Sindhupalchowk



Fig12: First Aid Box, BUYA_49, Sindhupalchowk



Fig 13: A worker in Proper PPEs doing staircase work at KALI_66, Kathmandu



Fig 14: Labor toilet in Shree SS,Jyamirekhani, Ramechhap



Fig 15: Use of PPEs by labor at Sthanapati SS Ramechhap



Fig 16: Zinc sheet labor camp in Shree SS,Jyamirekhani, Ramechhap



Fig17: Retaining wall construction, GASH_53, Sindhupalchowk

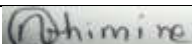


Fig18: Physical progress of 3-C-9 building with slab barrier, JAAN_52, Sindhupalchowk

**Annex 2: Checklist of the Monitoring activity carried out by
Safeguards Desk (Sample only)**

Monthly Checklist for Safeguards Desk-DRSP (Construction Phase)**Name of School:** 52 SIWK JAAN RECON1)**Location:** Thuldhading-7, Sindhupalchok**Date:** 17th Dec, 2019

Sn.	Issues	Status		Remarks
		Yes	No	
1.	Building safe from landslide, erosion and no risky area existed close to the school area.	✓		
2.	No impact on forest and agricultural land.	✓		
3.	Drainage and surface runoff around the school managed.	✓		
4.	No water logging around the school.	✓		
5.	Physical safety barrier on slab edge, staircase barrier, and around the construction boundary in place.	✓		Instructed to use staircase barrier
6.	Safety Sign boards, Emergency Phone Numbers, caution tape around under construction area in place.	✓		
7.	Good Housekeeping of construction material.	✓		
8.	Use of PPEs by labour.	✓		
9.	No occupational health and safety issues.	✓		
10.	Health and sanitation around the camp maintained.	✓		
11.	No child labour during construction.	✓		
12.	Female worker are provided with equal wage.			No female worker
13.	Consultations with SMC and local community (Women, Poor, Dalits, IPs, disadvantage groups).	✓		
14.	First aid box in site.	✓		
15.	Waste from construction and from camps managed.	✓		
16.	Employment opportunity to local.		✓	
17.	No Social and GESI issues.	✓		
18.	All raised grievances handled and resolved properly.			Grievances are not came in record
19.	Compensation paid for temporary acquired land.			No temporary land acquired
20.	Other issue, if any.			

Sn.	Safeguards Members	Name/Signature/Office Stamp
1.	Chief, DLPIU:	
2.	Safeguards Focal Person, DLPIU :	
3.	Safeguards and GESI Monitors, DSC - DRSP:	

Monthly Checklist for Safeguards Desk-DRSP (Construction Phase)

Name of School: ~~Example School Name (23 RAAP AGRI RECON)~~

Location: Shree SS, Yamunokhari

Date: 2019/12/19

Sn.	Issues	Status		Remarks
		Yes	No	
1.	Building safe from landslide, erosion and no risky area existed close to the school area.	✓		
2.	No impact on forest and agricultural land.		✓	
3.	Drainage and surface runoff around the school managed.	✓		
4.	No water logging around the school.	✓		
5.	Physical safety barrier on slab edge, staircase barrier, and around the construction boundary in place.		✓	Railing work ongoing for staircase, Presence of site barricading
6.	Safety Sign boards, Emergency Phone Numbers, caution tape around under construction area in place.	✓		No any use of caution tape Presence of safety sign
7.	Good Housekeeping of construction material.	✓		
8.	Use of PPEs by labour.		✓	Partial use of PPEs
9.	No occupational health and safety issues.	✓		
10.	Health and sanitation around the camp maintained.	✓		
11.	No child labour during construction.	✓		
12.	Female worker are provided with equal wage.			No female worker
13.	Consultations with SMC and local community (Women, Poor, Dalits, IPs, disadvantage groups).	✓		
14.	First aid box in site.	✓		
15.	Waste from construction and from camps managed.	✓		
16.	Employment opportunity to local.		✓	No local worker Total worker: 25
17.	No Social and GESI issues.	✓		
18.	All raised grievances handled and resolved properly.	✓		
19.	Compensation paid for temporary acquired land.			No any land used for temporary activities
20.	Other issue, if any.		✓	

Sn.	Safeguards Members	Name/Signature/Office Stamp
1.	Chief, DLPIU - DRSP:	
2.	Safeguards Focal Person, DLPIU - DRSP:	
3.	Safeguards and GESI Monitors, PSC - DRSP:	Dipa Kestani

Annex 3: Meeting Minutes and instruction provided to contractor maintaining safety

(Filled Sample)



UMAR MUNSHI ASSOCIATES
CONSULTING ENGINEERS, ARCHITECTS & PLANNERS
In association with



PACE Consultants (P.) Ltd.



PR & C Services

Project name:	L3702 & G0601/0602 _ DRSP – DISASTER RESILIENCE OF SCHOOLS PROJECT		
Local:			
Place:	DRSP office, Thapa Gaun.		
Presences:	Paulo Barbosa, Rikesh Chitkar, Nabina Tiwari, Ramanshri		
Date/Time:	6 th November, 2019.		
MEETING TOPICS			
NO	SUBJECT	RESPONSIBLE	TARGET DATE
1.	Slab and staircase barricading by physically strong materials.	Contractor	
2.	Houskeeping and site cleanliness.		
3.	Hygiene maintenance at labour camp.		
4.	Safety report will be closed by	"	
	25 th of November (old reports)	"	25 th Nov.
5.	Providing PPEs to all workers.	"	
6.	Ongoing Safety issues will be closed	"	15 th Nov.

within 10 days.

7. Clearing of Bushes around site

8. Use of safety harness and make safety platform while working at height.

9. Contractor to maintain documentation of providing PPEs to labour and organize meeting.

10. If the reports would not be closed the bills would not be signed

Paulo Barbosa
TL (DRSP)

Rikesh Chitkar
Environment Expert
CDRSP

Nabina Tiwari
ESM (DRSP)
Nabina

Ramanshri
SE, Centre
Ramanshri



UMAR MUNSHI ASSOCIATES
CONSULTING ENGINEERS ARCHITECTS & INTERIORS
10, BAHAL CHOWK, LAHORE



PACE Consultants (P) Ltd.



PR & C Services

Project name:	L3702 & G0601/0602 _ DRSP – DISASTER RESILIENCE OF SCHOOLS PROJECT
Local:	Shree RAL SS
Place:	Bhirkot
Presences:	DX-RE, SE, ESM ; Contractor SE, Supervisor, School Principal, SMC member
Date/Time:	20/11/18

MEETING TOPICS

NO	SUBJECT	RESPONSIBLE	TARGET DATE
1)	Installation of Power socket box and switch box in the both blocks are required		30 th Dec 2018
2)	Approved hardener should be used during screeding. Screeding work should be carried out only after completion of electrical works		25 th Dec 2018
3)	Almost all plaster work is completed in both the block and wall above plinth is ongoing in toilet block		
4)	Site clearance work to be done once a week.		
5)	Contractor SE is instructed to close all quality and safety report		30 th Dec 2018
6)	Instructed DSC SE to send daily report and inspection report on time.		
7)	Instructed both the SE to study all the revised drawing and to implement at site.		
8)	Partial use of PPE so strictly instruct the labor to use PPEs during working hours.		30 th Dec 2018
9)	Do screeding work after completion of brick work in case of Vardakh & electrical work.		

- 10) Instructed to check all the off set in beam & column & even the level of plaster and do correction wherever necessary.
- 11) Regular cleaning of door and window is required.

Immed
diately

[Handwritten signatures]

Annex 4: Safety Observation Checklist (Sample only)

Semi-annual Social and Environmental Compliance Monitoring Report January-June 2017

	REPORT NAME:	CONSTRUCTION		 UNAR MUNSHI ASSOCIATES <small>CONSULTANCY SERVICES</small> <small>IN ASSOCIATION WITH</small>	 PACE Consultants (P) Ltd. <small>PA&E Services</small>	 P&L Services
	REPORT NO:	016_20191218_46_SIWK_JAAR_SafetyReport(closed)				
JOB NAME : DRSP - DISASTER RESILIENCE SCHOOLS PROJECT				REPORT DATE		
PLACE OF WORK : Janasudhar BS(JAAR)				18/12/2019		
ADMINISTRATION : C L P I U(Education)				WEATHER		
CONSULTANT : UMA_ERMC				Sunny		
CONTRACTOR : Sharma-Khani JV				TEMPERATURE		WIN
				MAX	MIN	(KPH)
				29	20	18
SAFETY OBSERVATION				SAFETY OBSERVATION CLOSED BY CONTRACTOR		
001						
AREA	3-C-9			AREA		
DESCRIPTION	No proper use of PPE			Use of PPE		
AREA				AREA		
DESCRIPTION				DESCRIPTION		

Semi-annual Social and Environmental Compliance Monitoring Report January-June 2017

	REPORT NAME	CONSTRUCTION		 UNAR MUNSHI ASSOCIATES CONSULTANTS/ENGINEERS/ARCHITECTS P.O. Box 100, Kathmandu, Nepal TEL: 977-1-4441111, 4441112 FAX: 977-1-4441113 WWW.UNARMUNSHI.COM.NP	
	REPORT NO:	009_20190902_21_SILI_PAHI_SafetyReport			
JOB NAME		DRSP - DISASTER RESILIENCE SCHOOLS PROJECT		REPORT DATE	2019.09.02
PLACE OF WORK		Pachrukhi Ma vi		WEATHER	
ADMINISTRATION		C L P I U(Education)		Cloudy	
CONSULTANT		UMA_ERMC		TEMPERATURE	
CONTRACTOR		Contech-Lumbini JV		MAX	MIN
				37	33
				WIN (KPH)	
				8	
SAFETY OBSERVATION			SAFETY OBSERVATION CLOSED BY CONTRACTOR		
42					
AREA	S-C-12 Block 1		AREA		
DESCRIPTION	No proper use of PPE		proper use of PPE's done.		
			DESCRIPTION		
					
AREA	S-C-12 Block 2		AREA		
DESCRIPTION	No proper use of PPE		proper use of PPE's done.		
			DESCRIPTION		
					
AREA	S-C-12 Block 2		AREA		

Semi-annual Social and Environmental Compliance Monitoring Report January-June 2017

	REPORT NAME:	Safety Report		  									
	REPORT NO:	002_20191107_37_DOHA_GARI_Safety Report(Closed)											
JOB NAME : DRSP - DISASTER RESILIENCE SCHOOLS PROJECT PLACE OF WORK : Shree Gaurishanker Ma Vi ADMINISTRATION : C L P I U(Education) CONSULTANT : UMA_ERMC_PACE_PPCS CONTRACTOR : Sharma-Khani JV		REPORT DATE 2019.11.07 WEATHER Clear <table border="1"> <tr> <th colspan="2">TEMPERATURE</th> <th>WIN</th> </tr> <tr> <th>MAX</th> <th>MIN</th> <th>(KPH)</th> </tr> <tr> <td>19</td> <td>9</td> <td>9</td> </tr> </table>			TEMPERATURE		WIN	MAX	MIN	(KPH)	19	9	9
TEMPERATURE		WIN											
MAX	MIN	(KPH)											
19	9	9											
SAFETY OBSERVATION		SAFETY OBSERVATION CLOSED BY CONTRACTOR											
001													
AREA :	3-C-22	Area 3-C-22											
DESCRIPTION :	Brickwork in FF	DESCRIPTION Brickwork in FF											
002													
AREA :	3-C-22	AREA 3-C-22											
DESCRIPTION :	Rebar work of SF Slab	DESCRIPTION Rebar work of SF Slab											
		Safety Issues Closed Binod Oli (Contractor supervisor GARS, 37)											

Annex 5: Environment Safeguards Compliance Matrix

Disaster Resilience of Schools Project (DRSP)

Environment Safeguards Compliance Matrix for RECON1 *Ranking Score (Poor= below 55; Average= 56-70, Fair 71-80; Good 81 -90, Excellent= above 90)

		Pre-construction stage			Construction Stage																						Operation Stage						
Sn.	Name of School/Code	EMP Cost included in BOQ	Safety and PPE to workers provision in BOQ	Total Score of Pre-construction stage	Contractor's environment assurance officer appointed Office	Information Board, Safety Boards established	Construction site Safety (Barricade/ Fencing) provided	Slope stability around school	Storm water drainage managed	Construction waste disposed safely	Good housekeeping of construction materials	No Air/Dust pollution during construction	No noise pollution during construction	No water pollution during construction	No impact on tree and vegetation	No impact on Public (Agriculture/Houses/B usiness)	No social issues due to labourers (Eg. Use alcohol, fights, disrespect)	Gender issues addressed	No land acquisition issues	First Aid Facility available	No construction Injuries/ Accident	PPE supplied to labourers	Insurance of Labour	No child Labour	Good condition of Labour Camp/ toilets	Waste from camp disposed safely	Potable water supplied to labourers	Total Score of construction stage	Restoration of labour camp	Restoration of construction site	preparation of safeguard compliance	Total Score of operation stage	Score (Poor= below 55; Average= 55-70, Fair 71-80; Good 81 -90, Excellent= above 90)
	Score	4	2	6	3	3	5	3	3	5	8	4	3	4	3	2	3	3	3	4	5	5	2	2	5	3	4	85	4	3	2	9	100
	Okhaldhunga																																
1	Sunkoshi S.S, Balakhu	4	2	6	2	2	2	2	2	2	2	3	2	4	3	1	3	3	3	1	5	3	2	2	3	1	3	56				0	62
2	Rajyalaxmi S.S, Ubu																																
3	GramodayaYu.Si. S.S, Sinkichaur	4	2	6	2	2	2	3	0	2	2	3	2	4	3	1	3	3	3	0	5	3	2	2	2	1	3	53				0	59
4	Katunje S.S, Katunje	4	2	6	2	2	1	3	0	2	2	3	2	4	3	1	2	3	3	3	5	3	2	2	2	1	3	54				0	60
5	Fulmati S.S, Khijiphalate	4	2	6	2	2	0	2	0	2	2	3	2	4	3	1	3	3	3	0	5	3	2	2	2	1	3	50				0	56
6	Jalpa S.S, Kalimati	4	2	6	2	2	1	3	0	2	2	3	2	4	3	1	3	3	3		5	3	2	2	2	2	3	53				0	59
7	Himganga S.S, Rwadou	4	2	6	2	2	0	1	0	2	2	3	2	4	3	1	3	3	3	0	5	3	2	2	2	1	3	49				0	55
8	Jalpa S.S, Tarkerabari	4	2	6	2	2	1	3	0	2	2	3	2	4	3	1	3	3	3	0	5	3	2	0	2	1	3	50				0	56
	Sindhuli																																
9	Janapremi SS(JAMI)	4	2	6	1	2	1	1	2	3	3	4	4	3	2	2	3	3	3	4	5	1	2	2	4	3	2	60				0	66
10	Champadevi SS(CHVI)	4	2	6	1	2	3	1	2	2	6	4	2	3	2	2	2	3	3	4	5	3	2	2	4	3	4	65				0	71
11	Janajyoti SS (JATI)	4	2	6	1	3	4	2	2	4	4	4	2	3	2	2	3	3	3	4	5	5	2	2	4	3	4	71				0	77
12	Kausika SS (KAHA)	4	2	6	1	3	5	3	3	2	6	4	3	3	3	2	3	3	3	4	5	5	2	2	5	3	2	75				0	81
13	Sankareswor SS (ASOR)	4	2	6	1	2	2	3	3	3	3	4	4	3	3	2	3	3	3	4	5	3	1	2	5	2	3	67				0	73
14	Sri Pragatisil SS (SRIL)	4	2	6	1	3	5	2	3	4	6	4	2	4	3	2	3	3	3	4	5	4	2	2	4	2		71				0	77
15	Shree SS, Khayarsal (SHEEK)	4	2	6	1	1	2	3	3	3	4	4	3	4	3	2	3	3	3	4	5	1	2	2	4	2	2	64				0	70
16	Kyaneswor SS (KYOR)	4	2	6	1	2	2	3	3	4	5	4	3	4	3	2	3	3	3	4	5	2	2	2	4	2	2	68				0	74
17	Kapilakot SS(KAOT)	4	2	6	1	3	3	3	3	4	5	4	3	4	3	2	3	3	3	4	5	2	2	2	4	2	2	70				0	76
18	Sri Mahendrajhyadi SS (SRDI)	4	2	6	1	2	2	2	3	2	4	3	3	4	3	2	3	3	3	4	5	3	2	2	3	2	2	63				0	69
19	Ganesh SS (GAEH)	4	2	6	1	2	2	2	3	2	4	3	3	4	3	2	3	3	3	4	5	3	2	2	3	2	2	63				0	69
20	Shree SS, Sikral (SHEES)	4	2	6	1	3	4	1	2	4	6	3	3	3	3	2	3	3	3	4	5	5	2	2	4	2	2	70				0	76
21	Pachrukhi SS (PAHI)	4	2	6	1	2	2	3	2	3	4	3	2	3	3	2	2	3	1	4	5	3	2	2	4	2	2	60				0	66
	Ramechhap			0																													
22	Bharati S.S	4	2	6	2	2	3	3	2	3	6	3	2	4	3	2	3	3	3	4	5	3	2	2	3.5	2.5	4	70				0	76
23	Agleshori MA V	4	2	6	1	3	3.5	3	2	3	6	3	2	4	3	2	3	3	3	4	5	3	2	2	3.5	2.5	4	70.5				0	76.5
24	Shree secondary school, Sikral	4	2	6	1	2	2	3	2	2	5	3	2	4	3	2	3	3	3	4	5	3	2	2	2	2.5	4	64.5				0	70.5
25	Manakamana Secondary School	4	2	6	1	2	3	3	2	3	6	3	2	4	3	2	3	3	3	4	5	3	2	2		2.5	4	65.5				0	71.5
26	Mahalangur SS	4	2	6	1	2	2	3	2	2	5	3	2	4	3	2	3	3	3	4	5	3	2	2	3.5	2.5	4	66				0	72
27	Bal SS	4	2	6	2	2	3.5	3	2	3	6	3	2	4	3	2	3	3	3	4	5	3	2	2	3.5	2.5	4	70.5				0	76.5
28	TamakoshiJanagariti S.S	4	2	6	2	2	2	3	2	2	5	3	2	4	3	2	3	3	3	4	5	2	2	2	3.5	2.5	4	66				0	72

Sn.	Name of School/Code	Pre-construction stage			Construction Stage																								Operation Stage				
		EMP Cost included in BOQ	Safety and PPE to workers provision in	Total Score of Pre-construction stage	Contractor's environment assurance officer appointed Office	Information Board, Safety Boards established	Construction site Safety (Baricade/ Essential services)																										
	Score	4	2	6	3	3	5	3	3	5	8	4	3	4	3	2	3	3	3	4	5	5	2	2	5	3	4	85	4	3	2	9	100
29	Shree SS, Jyamirekhani	4	2	6	1	2.5	2	3	2	3	6	3	2	4	3	2	3	3	3	4	5	3	2	2	3.5	2.5	4	68.5				0	74.5
30	Kali Devi Uchha Ma Vi	4	2	6	2	2	3.5	3	2	2	5	3	2	4	3	2	3	3	3	4	5	3	2	2	3.5	2.5	4	68.5				0	74.5
31	Shree ss , Harichinde	4	2	6	2	2	2.5	3	2	3	6	3	2	4	3	2	3	3	3	4	5	3	2	2	3.5	2.5	4	69.5				0	75.5
32	Maneda S.S	4	2	6	2	2	2.5	2	2	2.5	5	3	2	4	3	2	3	3	3	4	5	3	2	2	3.5	2.5	4	67				0	73
33	Sthanapati SS	4	2	6	2	2	2	1	2	3	6	3	2	4	3	2	3	3	3	4	5	3	2	2	3.5	2.5	4	67				0	73
	Dolakha																																
34	Bhim Ni Ma Vi ()	4	2	6	0	1	1	1	2	2	3	3	3	4	3	2	3	3	3	1	4	3	2	2	2	3	4	55				0	61
35	MahendrodayaUchha Ma Vi (01_35_DOHA_KUDA)	4	2	6	0	2	3	2	2	2	5	3	3	4	3	2	3	3	3	3	3	2	2	2	2	2	4	61				0	67
36	KutiDanda U Ma Vi(01_36_DOHA_KUDA)	4	2	6	0	2	2	2	2	2	5	3	3	4	3	2	3	3	3	3	3	2	2	2	2	2	4	60				0	66
37	Gaurishankarmavi()	4	2	6	0	1	2	3	3	3	5	3	3	4	3	2	3	3	3	2	3	3	2	2	2	3	4	62				0	68
38	MahendraUchha Ma Vi()	4	2	6	0	2	2	1	3	2	7	3	3	4	3	2	3	3	3	1	3	2	2	2	2	2	4	59				0	65
39	Bhadreshwor Ni Ma vi()	4	2	6	0	2	1	2	2	2	4	3	3	4	3	2	3	3	3	1	3	2	2	2	2	2	4	55				0	61
40	Bhumesthan Ma V()	4	2	6	0	2	1	3	2	2	5	3	3	4	3	2	3	3	3	1	3	2	2	2	2	2	4	57				0	63
41	Shree BouddhaBhuwaneshwori()	4	2	6	0	1	1	3	1	2	5	3	3	4	3	2	3	3	3	1	3	2	2	2	2	2	4	55				0	61
42	Ajadi Ma V()	4	2	6	0	2	2	3	2	2	3	3	3	4	3	2	3	3	3	2	3	2	2	2	2	2	4	57				0	63
43	BhimendraPra V()	4	2	6	0	2	2	3	2	2	4	3	3	4	3	2	3	3	3	1	3	2	2	2	2	2	4	57				0	63
44	Sankheshwor Ma V()	4	2	6	0	2	2	3	2	2	4	3	3	4	3	2	3	3	3	1	3	2	2	2	2	2	4	57				0	63
45	TamraKaushal Ma V()	4	2	6	0	2	2	3	2	2	5	3	3	4	3	2	4	3	4	2	3	2	2	2	2	2	4	61				0	67
	Sindhupalchowk																																
46	Shree Janasudhar Ma Vi	4	2	6	2	3	4	3	3	3	6	4	3	4	3	2	3	3	3	3	5	5	2	2	3	2	4	75				0	81
47	Shree BhimVidhyashramMavi	4	2	6	2	3	5	2	2	3	5	4	3	4	3	1	3	3	3	4	5	5	2	2	3	2	4	73				0	79
48	Shree KagesworiMavi	4	2	6	1	3	5	3	3	3	5	4	3	4	3	2	3	3	3	3	5	5	2	2	3	2	4	74				0	80
49	Shree BuddhodayaMavi	4	2	6	2	3	4	1	2	3	5	4	3	4	3	2	3	3	3	3	5	5	2	2	3	2	4	71				0	77
50	Shree MahendraPriyaAavi	4	2	6	2	2	4	3	3	3	5	4	3	4	3	2	3	3	3	4	5	5	2	2	3	2	4	74				0	80
51	Shree RajeshworiMavi	4	2	6	2	3	4	1	3	3	5	4	3	4	3	1	3	3	3	4	5	5	2	2	3	2	4	72				0	78
52	Shree JankalyanMaVi	4	2	6	2	3	5	3	3	3	6	4	3	4	3	2	3	3	3	4	5	5	2	2	4	2	4	78				0	84
53	Shree Ganesh Mavi	4	2	6	2	3	4	2	2	3	5	4	3	4	3	2	3	3	3	4	5	5	2	2	3	2	4	73				0	79
	Kavrepalanchowk																																
54	Shree Gramonati Ma.vi	4	2	6	3	3	3	2	3	3	5	3	2	3	3	2	3	3	3	4	5	4	2	2	3	2	3	69				0	75
55	Shree Uma Shah Saikshya	4	2	6	3	3	3	3	3	3	4	3	2	3	3	2	3	3	3	4	5	3	2	2	3	2	3	68				0	74
56	Shree DapchaMa.Vi	4	2	6	3	3	3	2	3	3	5	3	2	3	3	2	3	3	3	4	5	3	2	2	3	2	3	68				0	74
57	Shree KuseshworMa.Vi	4	2	6	2	3	3	3	3	3	5	3	2	3	3	2	3	3	3	4	5	3	2	2	3	2	3	68				0	74
58	Shree JageshworMa.Vi	4	2	6	3	3	3	2	3	3	5	3	2	3	3	2	3	3	3	4	5	4	2	2	3	2	3	69				0	75
59	Shree MahakaliMa.Vi	4	2	6	2	2	3	2	3	3	5	3	2	3	3	2	3	3	3	3	5	3	2	2	3	2	3	65				0	71
60	Shree JorpatiMa.Vi	4	2	6	2	3	2	2	3	3	5	3	2	3	2	2	3	3	3	4	5	4	2	2	3	2	3	66				0	72
61	Shree AranikoMa.Vi	4	2	6	2	3	2	2	3	3	4	3	2	3	2	2	3	3	3	4	5	3	2	2	3	2	3	64				0	70
62	Shree JagritiMa.Vi	4	2	6	2	3	3	2	3	3	5	3	2	3	3	2	3	3	3	4	5	4	2	2	3	2	3	68				0	74
63	Shree SetiMa.Vi	4	2	6	3	3	3	2	3	3	5	3	2	3	3	2	3	3	3	4	5	4	2	2	3	2	3	69				0	75

Sn.	Name of School/Code	Pre-construction stage			Construction Stage		Slope stability around school	Storm water drainage managed	Construction waste disposed safely	Good housekeeping of construction materials	No Air/Dust pollution during construction	No noise pollution during construction	No water pollution during construction	No impact on tree and vegetation	No impact on Public (Agriculture/Houses/Business)	No social issues due to labourers (Eg. Use alcohol, fights, disrespect)	Gender issues addressed	No land acquisition issues	First Aid Facility available	No construction Injuries/ Accident	PPE supplied to labourers	Insurance of Labour	No child Labour	Good condition of Labour Camp/ toilets	Waste from camp disposed safely	Potable water supplied to labourers	Total Score of construction stage	Operation Stage			Total Score of operation stage	Score (Poor= below 55; Average= 55-70, Fair 71-80; Good 81-90, Excellent= above 90)
		EMP Cost included in BOQ	Safety and PPE to workers provision in	Total Score of Pre-construction stage	Contractor's environment assurance officer appointed Office	Information Board, Safety Boards established																						Construction site Safety (Barricade/ Essential services)	Restoration of labour camp	Restoration of construction site		
	Score	4	2	6	3	3	5	3	3	5	8	4	3	4	3	2	3	3	4	5	5	2	2	5	3	4	85	4	3	2	9	100
	Bhaktapur																															
64	64(PAHA)SS	4	2	6	2	3	4	2	2	2	6	4	3	3	2	3	3	3	4	5	4	2	2	3	2	4	71				0	77
65	65(DEVI)SS	4	2	6	2	3	4	2	3	2	6	4	3	3	2	3	3	3	4	5	4	2	2	3	2	4	72				0	78
	Kathmandu																															
66	Shree-Kavresthali Secondary School	3	1.5	4.5	1.5	3	3	3	2	3	6	4	2	4	3	2	3	3	4	5	3	2	2	2	2	4	69.5				0	74
67	Shree-Kuleshwor Secondary School	3	1.5	4.5	1	3	3	3	2	3	7	4	2	3	3	2	3	3	4	5	4	2	2	3	2	4	71				0	75.5