

Environmental Monitoring Report

Semi Annual Report

July 2019

Loan/Grant Number: L2808/G0270/G0271

Project Number: 41155-013

NEP: Electricity Transmission Expansion and Supply
Improvement Project (Jan-Jun 2019)
Part A, Main report

Prepared by the Government of Nepal for the Asian Development Bank.

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Nepal Electricity Authority

Environmental Monitoring Report: January-June 2019



NEP: Electricity Transmission Expansion and Supply Improvement Project

ADB Loan: 2808 NEP

ELECTRICITY TRANSMISSION EXPANSION AND SUPPLY IMPROVEMENT PROJECT

Semi Annual Environmental Monitoring Report

Submitted To

ASIAN DEVELOPMENT BANK

July 2019

NOTES

- (i) The fiscal year (FY) of the Government of Nepal and its agencies ends on 16 July. FY before a calendar year denotes the year in which the fiscal year ends, e.g., FY 2018 ends on 16 July 2019.
- (ii) In this report, "\$" refers to US dollars.

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Currency Equivalents

31st December 2018

Currency Unit - Nepalese Rupees (NRs)

US \$ 1.00 - NRs 109.30

ABBREVIATIONS

ADB	Asian Development Bank
ADF	Asian Development Fund
CFUG	Community Forest User Group
DDR	Due Diligence Report
DFO	District Forest Officer
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
ESMU	Environmental Safeguards Management Unit
ETESIP	Electricity Transmission Expansion and Supply Improvement Project
GIS	Gas Insulated Substation
GoN	Government of Nepal
GWh	Giga Watt Hour
IEE	Initial Environmental Examination
Km	Kilometer
MOE	Ministry of Energy
MOF	Ministry of Finance
MoFE	Ministry of Forest and Environment
MOEWRI	Ministry of Energy Water Resources and Irrigation
MVA	Mega Volt Ampere
MW	Mega Watt
NEA	Nepal Electricity Authority
PPE	Personal Protective Equipment
RoW	Right of Way
SPS	Safeguard Policy Statement 2009 (SPS)
S/S	Substation
TL	Transmission Line
V	Volt

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1. Introduction

1.1. Background

Electricity Transmission Expansion and Supply Improvement Project (ETESIP) is a \$ 128 million project with 44% loan and 34% Grant while a \$ 2 million of capacity development assistance is approved by ADB (Table 1). These figures have been proposed with the objective of improvement of electricity supply capacity. The ETESIP comprises of three major components:

- Transmission Line
- Distribution System
- Rehabilitation of hydropower stations

Table 1: Details on Funds

Fund Provider	Amount in million USD	Fund Type
Asian Development Fund (ADF)	56	loan
ADF	19	grant
Government of Norway	25	grant
NEA and GoN	28	
Capacity Development Assistance	2	

This project was approved on 15th November 2011 with the completion time on 30th June 2017 and loan closing is on 31st December 2017. However, the closing date has been extended to 31st March 2020 with some changes and on the scope of the TL while the GIS substations have been merged with another project Power adjustments Transmission and Distribution Efficiency Enhancement Project (PTDEEP). The project components include

- i Tamakoshi Kathmandu 220/400kV TL (sub categorized to New-Khimti Barhabise section and Barhabise Kathmandu section of the TL),
- ii Rehabilitation of 640kV Sundarijal Hydro Power Project (HPP), Rehabilitation of 1MW Tinau HPP,
- iii Augmentation of Distribution Services (East) this includes Jare, Gaur, Nijgadh, Chandraghadhi, and Belbari,
- iv Augmentation of Distribution Services (West) includes Parasi, Amuwa, Taulihawa, Krishnanagar, Gorkha, Mirmi and Gaddachowki,
- v Expansion of Chapali Substation, Kohalpur-Mahendranagar 132kV second circuit (sub categorized as second circuit stringing and substations) and f) Upgradation of distribution lines at Kathmandu, Bhaktapur, Kavrepalanchok, Sindhupalchowk, Dolakha, Sindhuli and Ramechhap Districts (Figure 1).

The current assessments indicate the project meeting its targets is entitled for successful implementation. Of the two Power Transmission Line Components, Khimti-Kathmandu Transmission Line construction is in its initial phase. The, Initial Environmental Examination (IEE) has been prepared in abidance with ADB Safeguard Policy Statement 2009. This is in compliance with following its category B designation.

The transmission line projects are screened to be of Category B. However, only Khimti-Kathmandu 220/400kV TL (Transmission Line) has IEE with approval from ADB and GoN through the in line ministry. This report mainly focuses on the environmenal compliance status and issues of Tamakoshi Kathmandu 220/400 kV TL since other subprojects of ETESIP have either no environmental issues or are already complete.

1.2. Overall Progress Status of the Project

The overall progress status of the sub-project components are summarized in (Table-1).

Table 1 Overall Progress Status of the Project

S N	Name of the Project	Project Details	Progress Status	Completion Schedule	
1	Tamakoshi Kathmandu 220/400kV TL				
a	New-Khimti Barhabise section	Construction of double circuit 220/400kV Line from New Khimti of Ramechhap District to Barhabise of Sindhupalchowk District	<ul style="list-style-type: none"> Initial contract awarded on September 26th 2016 cancelled and recently the new contract agreement has been awarded and will be effective soon Route Alignment finalized Social and environmental public awareness campaign via installation of hoarding boards 		
b	Barhabise Kathmandu section	Construction of double circuit 220/400kV Line from Barhabise to Changunarayan of Bhaktapur District	<ul style="list-style-type: none"> i.Contract awarded on June 13th 2017 ii. Check survey completed iii.Enumeration of trees to be cut completed in Sindhupalchowk District and has been initiated in Kavrepalanchowk, Kathmandu and Bhaktapur District iv.Public notice has been out for land acquisition for the tower pads in Indrawati RM ward no. -10, Bhotesipa (former Bhotesipa VDC -8 & 9); Chautara Sangachokgadi Municipality ward no. -08, Irkhu (former Irkhu VDC -2, 3, 5 & 7), ward no. -9, Kadambas, ward no. -13, Thulo Sirubari (former Thulo Sirubari VDC- 3, 4, 5 & 6), Balephi RM ward no. -4 (former Fulpingdada VDC- 8), ward no. -5 (former Fulpingdada VDC- 6), ward no.-6 (former Mankha VDC-9), ward no.-7 (former Mankha VDC-6), ward no.-8 (former Mankha VDC-1), Barhabise municipality ward no.-9 (former Barhabise VDC-3, 5, 6 & 8), ward no.-3 (former Barhabise VDC-1) [Published on 6th Nov. 2018, Rajdhani Daily] v.Land acquisition and compensation allocation for tower pads in Bhotesipa, Irkhu, Kadambas and Thulo Sirubari completed vi.Social and environmental public awareness campaign via installation of hoarding boards 	April 2020	

			Tower foundation construction in initial stage (10 foundation completed & 5 under construction)		
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S N	Name of the Project	Project Details	Progress Status	Completion Schedule
			<ul style="list-style-type: none"> Sindhupalchowk District and has been initiated in Kavrepalanchowk, Kathmandu and Bhaktapur Districts 	
2	Kohalpur Mahendranagar 132kV TL second circuit stringing	<ul style="list-style-type: none"> 191km of second circuit stringing on existing TL and construction of substations at Bhurigaun, of Bardiya District, and Phalmanpur of Kailali District 	<ul style="list-style-type: none"> Project Complete 	
3	Rehabilitation of Sundarijal HPP	<ul style="list-style-type: none"> 640 KW hydropower rehabilitation within the existing area 	<ul style="list-style-type: none"> Civil works in Nagmati intake structure is completed. Supply of all major equipment has been completed. Installation of powerhouse equipment were however delayed due to lack of access road which is now completed under funding of NEA. Headrace canal upgradation, installation of hydromechanical equipment in Nagmati, installation of trash-rack and gabion structures in Bagmati are also remaining mainly due to lack of shut down from Kathmandu Balley Water Supply Office. Unit no. 2 Machine Foundation work completed and is kept for curing period of 3 weeks, after which machine installation would proceede Electrical Panel installation in progress (Cabling work remaining) 	31 December 2019
4	Rehabilitation of Tinau HPP	<ul style="list-style-type: none"> 1MW HPP rehabilitation 	<ul style="list-style-type: none"> The project was removed from the ETESIP scope 	
5	Chapali Substation	<ul style="list-style-type: none"> Expansion of Chapali Substation 	<ul style="list-style-type: none"> Project Complete 	

S N	Name of the Project	Project Details	Progress Status	Completion Schedule
6	Augmentation of Distribution Services (East)	<ul style="list-style-type: none"> Upgradation of 33/11kV substations at Jhapa District for Chadragadhi and Damak (Buluchowk), Morang District for Belbari, Mahottari District for Jalesjwor, Rautahat District for Gaur and Bara District for Nijgad 	<ul style="list-style-type: none"> Project Complete 	
7	Augmentation of Distribution Services (West)	<ul style="list-style-type: none"> Upgradation of 33/11kV at 8 substations 	<ul style="list-style-type: none"> Substation at Nawalparasi District for Parasi, Rupandehi District for Amuwa, Kapilvastu District for Taulihawa and Krishnanagar, Gorkha District, Kanchanpur District for Gaddachauki and Salyan District for Jare has been charged since September of 2018. Substation at Syangja District for Mirmi nonperformance of contractor has caused transfer of the project to second package of ADB 	
8	Upgradation of Distribution Lines	<ul style="list-style-type: none"> Upgradation of distribution lines in earthquake effected areas of Kathmandu, Bhaktapur, Kavrepalanchowk, Sindhupalchowk, Dolakha, Sindhuli and Ramechaap Districts 	<ul style="list-style-type: none"> Project complete, final field verification report is remaining. 	

1.3. Implementation Status

NEA has established a separate Project Management Directorate (PMD) to expedite decision making process for the timely implementation of all ADB funded projects and other subsequent projects. PMD is headed by Deputy Managing Director (DMD) responsible for preparation, procurement, construction and supervision of ADB funded projects.

1.4. Reporting Period

The semi-annual environmental safeguard compliance monitoring report is prepared for the period of January - June, 2019.

1.5. Monitoring Requirements and Frequency of Submission

The Semi-Annual Environmental Safeguard Monitoring Report has been prepared and submitted by PMD, NEA as per the reporting guidelines and compliance with ADB requirements. The report has been prepared to cover and evaluate the environmental activities conducted by Environment and Social Management Unit (ESMU) for the months of January - June, 2019.

2. Compliance status with Applicable Statutory Requirements

The environmental safeguard related regulatory compliance requirements are as given in **Annex- 1**. Similarly, environmental compliance status with loan and grant covenants are presented in **Annex- 2**, whereas the health & safety and environmental safeguard related project activities are in compliance with contract clauses are given in **Annex- 3** and **Annex- 4**.

3. Environmental Safeguards

The environmental assessment with mitigation, corrective and compensatory measures for the proposed development interventions is a major component in ensuring minimal adverse environmental impacts. According to Environmental Protection Act (EPA), 1997 and Environmental Protection Rules (EPR), 1997 of Government of Nepal (GoN) and ADB Safeguard Policy Statement (SPS), 2009 Initial Environmental Examination (IEE) is mandatory for the electricity transmission line projects. However, if the transmission line passes from protected areas (national park, wildlife reserves, conservation areas), environmental impact assessment (EIA) is mandatory according to schedule 2 of EPR 1997. Moreover, considering National Energy Crisis Alleviation and Electricity Development Decade concept note, Ministry of Energy, Water Resources and Irrigation has issued “IEE and EIA Working Procedures for Hydropower and Transmission Line Project, 2073 BS” effective from 2073 Kartik 4 (20 October 2016) to simplify and expedite environmental assessment approval process by assigning authority to Department of Electricity Development (DoED).

3.1 Planning Status of the Project

The transmission line projects are screened to be of Category B. This Khimti-Kathmandu 220/400kV TL has IEE with approval from ADB and GoN through the in line ministry. The TL will avoid any environmentally sensitive sites. A section approximately 16 km that is to pass through forest areas of Chanrawati Watershed (area set aside for carbon sequestration pilot site) although not a legally protected area has been proposed for offsetting the RoW clearance. The work for the transmission line is in progress where contractors have been mobilized and Environment and Social Management Unit (ESMU) is established. The details of the project planning is provided in **Annex- 5**.

3.2 Construction Approach

The construction approach will be applied with focus on reducing adverse environmental effects, costs and promoting local jobs. The preventive and corrective measures on handling hazardous chemicals, oils, occupational health and safety requirements are incorporated as per the safeguard requirements.

4 Institutional Arrangement

4.1 Establishment of Safeguard Unit

The Office of Environmental and Social Management Unit (ESMU) has been established in its site office at Khadichaur, Sindhupalchowk for Barhabise – Kathmandu TL section. And, the Environmental and Social Monitoring teams are in site for this section whereas for the Khimti-Barhabise TL section the establishment of ESMU and the recruitment of the team is in process.

4.2 Establishment of Grievance Redress Mechanism

There is a Grievance Management Department (GMD) headed by director within NEA. The preparation of grievance redress mechanism acceptable to ADB will be complied. Moreover, under the PMD a separate unit to overlook the safeguard implementation is functional. The issues raised in local consultative meetings are first handled and solved in the field level Grievance Redress Committee (GRC) chaired by local elected representative and other representation from project personnel, PAFs, contractor, ESSD. The issues not solved will then be forwarded to GMD. The establishment of GRC for all the affected RMs and Municipalities are in the process of formation. Among them few formed GRCs are as follows and for others, the letter has been

dispatched but the time schedule for meetings has not been fixed yet. The meeting minutes are attached in the **Annex- 9**.

Table 2 GRC Formation Record Sheet

Reporting month	Reporting station/TL	Location	Date of formation
May 2019	TL Barhabise –Kathmandu Section	Chautara Sangachokgadi Municipality, Ward no- 13, Thulo Sirubari, Sindhupalchowk	2019/05/14
		Chautara Sangachokgadi Municipality, Ward no- 08, Irkhu, Sindhupalchowk	2019/05/17
June 2019		Indrawati RM, Ward no- 10, Bhotesipa, Sindhupalchowk	2019/05/29

(Source: Field visit)

4.3 EMP Implementation, Monitoring and Reporting

Monitoring mechanism in each project has been established for regular compliance monitoring. Report will be prepared on monthly, quarterly and biannual basis. During monitoring, consultation and meetings are conducted with the contractors and contractor's supervisor and also with the labors/staffs employed in construction works through informal meetings in a group and individually. The consultative process is aimed to obtain required information feedback and advice from the participants i.e. Contractors and labors/staffs engaged for the civil construction to assess the actual scenario of the labor issues and concerns.

5. Compliance with Environmental Safeguard Measures

5.1 Tree Marking and Tree Cutting Status

The enumeration of trees to be cut has been almost complete. The enumeration list has been submitted to the respective agencies i.e. District Forest Office and Department of Forest. The enumeration list shows more trees to be cut than expected from the IEE report and thus IEE has to be updated, in the portion of Sindhupalchowk Forest area, especially in Balephi RM. The total number of trees to be cut is counted as 28,788 with the total timber volume of about 441,674.527 cubic feet (cft). The other submitted details are in the process of approval from the ministry and once the approval is obtained tree cutting will be proceeded further. The details number of trees along with the timber volume from each affected forests are presented in the **Annex- 11**.

5.2 Status of Compensatory Plantation Plan

The final Compensatory Plantation Plan (CPP) will be prepared once the approval of tree cutting will be obtained from the MoFE. No progress/issues has been seen till this reporting period.

5.3 Consultation with Community

The consultation with the PAFs was conducted in Balephi RM ward no. - 07 (2019/04/02) and ward no. - 08 (2019/04/03). During the consultation, project related information was disseminated to the public and were asked to support for smooth running of the project. It was explained that the project falls under National Prioritization Project. The misunderstanding were cleared with the publics. The safety assurance, hazard, risk and benefits were shared with them and their curiosity, queries were explained. They demanded that the compensation with good rates should be distributed before starting physical work of the project. Similarly, another consultation with the PAFs was conducted again in Balephi RM ward no. -07 seeking a permission to start construction of tower foundation in AP 15 and AP 17 (2019/05/17). The PAFs asked to publish the notice along with the compensation details before starting the work. Also, the field visit and consultation was done in Barhabise for rerouting of the AP 3, AP 3A, AP 4, AP 5 & AP 5A (2019/05/21). Likewise, a consultation meeting with PAFs of Lapsiphedhi SS was conducted in the Office of Shankarapur

Municipality, with the major focus of discussion on the financial support from the Project to their requested sub-projects (2019/06/16). The minutes are presented in **Annex- 8**.

5.4 Review Mission Field Monitoring

The ETESIP review mission field monitoring visit was conducted on 12th & 13th June 2019. The visit was mainly focused on the monitoring of the ongoing construction activities and the different social issues raised during the land acquisition and construction activities. The team involved in the visit were the ADB officials, Project officials, ESSD focal person, ESMU field staffs, Contractors along with their desk & field staffs and some PAFs who joined in the site. The team visited Barhabise SS, Tower foundation construction site in Irkhu (AP 25/0) and the Lapsipedi SS area.

Similarly, environmental compliance field monitoring visit was conducted on 17th June 2019. The visit mainly focused on the monitoring of the environmental safeguard compliances and the team involved were the ADB officials, ESMU field staffs along with the Contractors desk & field staffs. The team visited tower foundation construction site in Thulo Sirubari (AP 33/0, AP 32/0, AP 32/1) and Barhabise SS.

5.5 Implementation of Mitigation Measures

5.5.1 Material Storage Yards and Workshop

The storage yard and workshop have been set up by contractor of Barhabise-Kathmandu TL section at Kuntabesi close to Cha Khola at Mandandeupur Municipality of Kavrepalanchowk District approximately 56km away from Kathmandu and 10km from Zero Kilo on a rented land. Currently, including a security guard there are 5 full time staffs in the yard.

Similarly, the storage of construction materials at different construction sites are kept adjacent to the site. However, the storage of those materials at each site are not satisfactory. The contractors are regularly advised for proper storage of these materials at the designated sites. The detail description of the status of construction material on each site is described below:

Table 3 Status of Storage of Construction Materials at each site

Transmission Line	Construction Material	Storage Type	Condition
Khimti-Barhabise TL section			The Work has not started yet.
TKTLP (Barhabise Kathmandu section)	Cement	Open air storage covered by Plastic	No moisture and water proofing was done and the condition was not satisfactory.
	Sand	Open storage	Direct piling on grassland, no water proof layer, foreign material restriction facility not provided, not enough separation distance from aggregate, not satisfactory condition
	Aggregate	Open storage	Direct piling on grassland, no water proof layer, foreign material restriction facility not provided, not enough separation distance from sand, not satisfactory condition
	Reinforcement Bars	Open air storage	Storage provided without sufficient clearance from ground, no water proofing layer, not satisfactory condition.

(Source: Field visit)

5.5.2 Establishment of Labor Camps/Camp Site Management

The construction work has been only started in Barhabise SS and Barhabise-Kathmandu TL section. Labor camps have been established inside the site at Barhabise SS. The camps have maintained proper drinking water, toilets and waste management. However drainage system, medical bay, emergency communication mechanism have not been managed. Also the contractor need to make arrangements for at least basic accommodation (warm cloths, bed and lodging sets, mosquito nets and insect repellent). The contractor (M/S JV of Guangxi Transmission and Substation Construction Company and Shenzhen Clou Electronics Co. Ltd.) have been advised

to make necessary arrangements for accommodation. In TKTLP, the contractor (Larsen & Toubro Ltd.) has been advised to make proper arrangements immediately for at least basic accommodation (warm cloths, bed and lodging sets, mosquito nets and insect repellent). Similarly, light/power system and drinking water system seem necessary in labor colony.

The 100 % of labors mobilized by contractor in SS were found to be local. Similarly, 81.49% of labors were local in all the sections where only 2.04% were unskilled females were found during this monitoring period. The detail employment data record is described below:

Table 4 Employment Data Record

Reporting month	Reporting station/TL	Total No. of labor (Men & Women)	No. of local labor	No. of local men labor	No. of local women labor	Type of labor for women	
						Skilled/ Semiskilled	Unskilled
January - March 2019	TL Khimti – Barhabise section	0	0	0	0	0	0
	TL Barhabise – Kathmandu section	45	20	20	0	0	0
Apr-19	TL Khimti – Barhabise section	0	0	0	0	0	0
	TL Barhabise – Kathmandu section	45	20	20	0	0	0
May-19	TL Khimti – Barhabise section	0	0	0	0	0	0
	TL Barhabise – Kathmandu section	83	38	38	0	0	0
Jun-19	TL Khimti – Barhabise section	0	0	0	0	0	0

	TL Barhabise – Kathmandu section	62	48	38	10	0	10
Total		235	126	116	10	0	10
Percentage (%)		100	53.62	92.06	7.94	0.00	4.26

(Source: Field visit)

5.5.3 Occupational Health and Safety Measures

Khimti-Barhabise TL Section

No issues/progress has been seen in this reporting period.

Barhabise-Kathmandu TL Section

Health and Safety Officers have been recruited by the contractor for compliance in order to prevent potential harm to labor/ staffs while construction activities and regular trainings about occupational health and safety, use of PPEs. The construction workers and field staffs have been provided with Personnel Protective Equipment (PPEs) and safety gears like helmet, facemasks, goggles etc. Health and Sanitation to the construction workers have been installed and first aid kit box arranged in the sites. However, in some temporary labor camps toilets were not in satisfactory condition. For the compliance of the same, contractor's safety officers were consulted and advised to maintain proper sanitation facilities in labor camp premises by improving toilets condition.

The detail safety safeguard compliance status and issues along with corrective actions for the all the sub-projects are presented in **Annex- 6** and **Annex- 7**.

5.5.4 Slope Stabilization and Bio-engineering work

Khimti-Barhabise TL Section

No issues/progress has been seen in this reporting period.

Barhabise-Kathmandu TL Section

The TL passes through private and community land along with public structures and utilities. Similarly, precaution and special measures for protection of foundations are needed for towers and poles located in mountainous and rough terrain. However, very few tower foundation has been constructed so far with zero problem of slope instability the construction of tower foundation protection wall will be started after the completion of all the pits of the specific tower. The construction will be done before labeling of the excavated debris/spoils and erection of the tower. Among all the constructed tower till this reporting period the area in AP 32/0 is quite vulnerable, where it is expected that the spoil may be washed away by the rain. Thus, the design of the protection wall has been finalized and the construction will be started by the end of this month.

5.5.5 Debris Management

Khimti-Barhabise TL Section

No issues/progress has been seen in this reporting period.

Barhabise-Kathmandu TL Section

Debris and spoil due to excavation of tower foundation have been partially managed in the project areas. The contractors are regularly advised to manage safe spoil dumping site with no adverse environmental and social effect. Also the contractor has been advised to put separate bins for degradable garbage, plastic, glass and metal to dispose properly in labor camps.

5.5.6 Drainage Management

Khimti-Barhabise TL Section

No issues/progress has been seen in this reporting period.

Barhabise-Kathmandu TL Section

Since the construction of tower foundation has not affected the drainage pattern yet, however, the contractor has been advised to arrange entertainment facility and install waste management facility, barricade (Reflective and hard) the construction site, drainage system, safety sign and restriction zones/compartments etc. promptly when required.

No issues/progress has been seen in this reporting period.

5.5.7 Firewood Use

The construction work has been initiated and the EMSU monitoring team is stationed at respective rented site office houses. Contractors and labors are using liquid petroleum gas (LPG) for cooking purpose. Firewood has not been used.

5.5.8 Safety Gear

The compliance of safety gear or PPE will be monitored as the construction work is progressing. The contractor of Barhabise – Kathmandu TL has submitted their approved EHS plan which includes health safety as well as PPE

5.5.9 Livelihood Restoration and Enhancement

No issues/progress has been seen in this reporting period.

5.5.10 Environmental and Social Awareness

ESSD prepared and installed 60 hoarding boards in TKTL (Khimti-Barhabise-Changunarayan TL section), during the period of April 30, 2019 to May 07, 2019. The board consists of public awareness messages including environmental protection, bio-diversity conservation, health & safety issues, project information and general rules and regulations. The details of the boards, installed location, quantity are presented in the **Annex- 12**.

5.5.11 Number of Grievances (Documented, resolved and under processing)

The grievances raised on the substation and transmission line are being received and recorded. Although the project is in initial phase of construction and the GRC are in the process of formation in local levels, few grievances have been received and documented by ESMU team, project staffs and officials. The details of the grievances recorded since January till this reporting period are presented below and the letters are attached in the **Annex- 10**.

Table 5 List of Grievances and its status

SN	Location	Issues	Recorded (Type/Date)	Action
1.	AP 37, AP 38, AP 39	Request for Irrigation water pump and PPR pipe at Indrawati RM- 10	Written (2019/03/02)	The requested materials has been provided to ward office (2019/04/02) and the construction is currently undergoing.
2.	AP 28	Request for Irrigation pipe at Irkhu	Written (2019/03/14)	SOLVED [Pipe has been provided to PAFs in presence of representatives from ward office]
3.	AP 28	Request for 16 socket and 4 elbow to join available/supported pipe, Irkhu	Written (2019/04/23)	SOLVED
4.	TL –Irkhu section	Request for gabion wall construction in school and road maintenance	Written (2019/04/04)	Design, cost estimate survey completed & ESSD has open the bidding process where the enough number of bidders were not present. Hence, ESSD going through re-bidding process.

SN	Location	Issues	Recorded (Type/Date)	Action
5.	TL –Irkhu section	Request for construction of temple and construction of stairs to temple	Written (2019/04/04)	Design, cost estimate survey completed & ESSD has open the bidding process where the enough number of bidders were not present. Hence, ESSD going through re-bidding process
6.	TL –Thulo Sirubari section	Request for additional support projects	Written (2019/05/14)	Information has been shared with the Project Office

(Source: Field visit, project staffs)

6. Automated Safeguard Monitoring (ASM) System

Automated Safeguard Monitoring (ASM) System has been recently customized. The safeguard implementation performances of the project have been collected from the field level safeguard team and uploaded in the automated system quarterly. For the regular input in the application the safeguard unit and the field level team will be oriented with the automated application. The details are presented below in **Annex- 13**, **Annex- 14** and **Annex- 15**.

7. Safety Assurance as per the Contractor's Safety Plan

The objectives of the contractor's safety plan are as follow:

- To identify certain critical activities, assess the risk associated therein and suggest precautionary measures to avoid accidents
- To integrate Health, Safety and Environmental friendly work practice
- To create EHS awareness to every individual associated with the project
- To provide the necessary EHS inputs
- To formulate and effectively maintain the accident prevention program of the project
- To achieve the prime objective of “**ZERO ACCIDENT**”

8. Issues and Follow up Actions

The table below shows the main environmental issues and follow up actions for the effective implementation of environmental safeguard measures.

Table 6 Major issues and Follow up actions

SN	Major Issues	Action Taken
1.	Temporary labor camp improvement	Contractor, safety officer has been advised to take action for proper management of toilet, drinking water supply, mosquito nets and insect repellent
2.	Barricading of the construction area	Contractor has been advised to barricade the construction area with proper signs of construction activities
3.	Use of PPEs	Contractor has been used to provide enough PPEs to the labors

(Source: Field visit)

9. Proposed Major Item of Focus for Next Report

The following activities are proposed for the next month monitoring in the project sites:

Table 7 Major items of Focus for Next Report

SN	Location	Activities
1.	Barhabise – Kathmandu TL section	<ul style="list-style-type: none"> • Consultation meeting with PAFs, contractors, community and project authorities whenever required • Monitoring of environmental components regarding landslide, debris fall, soil loss, health and safety of labors, sanitation, PPE, first aid and labor site conditions etc • Compliance monitoring • Follow-up about the bidding process for the construction of supported sub-projects in Irkhu & Indrawati • Follow-up & Formation of GRC in the areas where the letter has already been dispatched (Shankarapur Municipality, ward no-5, Changunarayan Municipality, ward no-4 & 6)