

ENVIRONMENTAL MONITORING FORMAT

Project:	No. of monitoring: 1
Monitoring point Motochico (under construction works, new bridge construction)	Date: 10th August 2018

1. Responses / Actions to the Comments and Guidance of Government Authorities and the Public

Monitoring Items	Monitoring results during the Report Period
Responses / Actions to the Comments and Guidance of Government	Only turbidity is beyond the criteria due to flood condition, it is not avoidable phenomena in rainy season.
Responses / Actions to the Comments of the Public	No argument

2. Pollution

Air quality

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
PM2.5	µg/m ³	14	-	Use the standard of Remarks	< 35	24 hours	Central American Index of Air Quality
PM10	µg/m ³	17	-	< 150	< 150	24 hours	Environmental legislation(MARN)

Water quality

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
pH		7.7	7.7	6.5 - 7.5	6.5 - 8.5	-	Environmental legislation(MARN)
Dissolved oxygen	mg/L	7.0	7.0	5 ≤	-	-	Environmental legislation(MARN)
BOD5	mg/L	-	1	Use the standard of Remarks	≤ 5	-	Water quality standards of Japanese rivers
Temperature	°C	27.8	28.3	20 - 30	-	-	Environmental legislation(MARN)
Turbidity	NTU	37.5	38.6	≤ 5	≤ 5	-	Environmental legislation(MARN)

Noise and Vibration

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
Noise level	dB	55	-	Use the standard of Remarks	< 70 dB	-	Road noise standards in Japan
Vibration level	dB	< 60	-	Use the standard of Remarks	< 70 dB	-	Vibration standard of Japanese road

3. Others

Item	Monitoring results
Wastes (Management of excavated sediment)	Excavated soil is not also flowing out at the time of the flood
Living / Livelihood (Claim from residents)	No claim.

ENVIRONMENTAL MONITORING FORMAT

Project:	No. of monitoring: 1
Monitoring point Motochico	Date: 10th August 2018
Before construction works	

1. Responses / Actions to the Comments and Guidance of Government Authorities and the Public

Monitoring Items	Monitoring results during the Report Period
Responses / Actions to the Comments and Guidance of Government	All monitoring results is normal value in the standards
Responses / Actions to the Comments of the Public	No comment

2. Pollution

Air quality

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
PM2.5	µg/m3	N.A.	-	Use the standard of Remarks	< 35	24 hours	Central American Index of Air Quality
PM10	µg/m3	N.A.	-	< 150	< 150	24 hours	Environmental legislation(MARN)

Water quality

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
pH		7.0	7.0	6.5 - 7.5	6.5 - 8.5	-	Environmental legislation(MARN)
Dissolved oxygen	mg/L	4.8	4.8	5 ≤	-	-	Environmental legislation(MARN)
BOD5	mg/L	N.A.	N.A.	Use the standard of Remarks	≤ 5	-	Water quality standards of Japanese rivers
Temperature	°C	27.4	27.4	20 - 30	-	-	Environmental legislation(MARN)
Turbidity	NTU	3.4	3.4	≤ 5	≤ 5	-	Environmental legislation(MARN)

Noise and Vibration

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
Noise level	dB	55	-	Use the standard of Remarks	< 70 dB	-	Road noise standards in Japan
Vibration level	dB	< 60	-	Use the standard of Remarks	< 70 dB.	-	Vibration standard of Japanese road

3. Others

Item	Monitoring results
Abnormality	Abnormality is not recognized

ENVIRONMENTAL MONITORING FORMAT

Project:	No. of monitoring: 2
Monitoring point Hermano Bienvenido a Casa	Date: 13th August 2018
Before construction	

1. Responses / Actions to the Comments and Guidance of Government Authorities and the Public

Monitoring Items	Monitoring results during the Report Period
Responses / Actions to the Comments and Guidance of Government	All monitoring results is normal, within the standard criteria
Responses / Actions to the Comments of the Public	No comment

2. Pollution

Air quality

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
PM2.5	µg/m3	14	-	Use the standard of Remarks	< 35	24 hours	Central American Index of Air Quality
PM10	µg/m3	18	-	< 150	< 150	24 hours	Environmental legislation(MARN)

Noise and Vibration

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
Noise level	dB	65	-	Use the standard of Remarks	< 70 dB	-	Road noise standards in Japan
Vibration level	dB	< 60	-	Use the standard of Remarks	< 70 dB	-	Vibration standard of Japanese road

3. Others

Item	Monitoring results
Abnormality	Not admitted

ENVIRONMENTAL AND SOCIAL MONITORING FORMAT

Project:	No. of monitoring: 3
Monitoring point Los Chorros	Date: 30th August 2018
Before construction	

1. Responses / Actions to the Comments and Guidance of Government Authorities and the Public.

Monitoring Items	Monitoring results during the Report Period
Responses / Actions to the Comments and Guidance of Government	Noise level is beyond the criteria, even it is the before the construction situation, due to heavy traffic situation.
Responses / Actions to the Comments of the Public	No comment

2. Pollution

Air quality

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
PM2.5	µg/m ³	22	-	Use the standard of Remarks	< 35	24 hours	Central American Index of Air Quality
PM10	µg/m ³	31	-	< 150	< 150	24 hours	Environmental legislation(MARN)

Noise and Vibration

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
Noise level	dB	80	-	Use the standard of Remarks	< 70 dB	-	Road noise standards in Japan
Vibration level	dB	< 60	-	Use the standard of Remarks	< 70 dB	-	Vibration standard of Japanese road

3. Others

Item	Monitoring results
Abnormality	Not admitted

ENVIRONMENTAL AND SOCIAL MONITORING FORMAT

Project:	No. of monitoring: 4
Monitoring point Zaragoza	Date: 30th August 2018
Before the construction works	

1. Responses / Actions to the Comments and Guidance of Government Authorities and the Public

Monitoring Items	Monitoring results during the Report Period
Responses / Actions to the Comments and Guidance of Government	Noise level is beyond the criteria, even it is the before the construction situation, due to heavy traffic situation.
Responses / Actions to the Comments of the Public	No comment.

2. Pollution

Air quality

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
PM2.5	µg/m ³	14	-	Use the standard of Remarks	< 35	24 hours	Central American Index of Air Quality
PM10	µg/m ³	20	-	< 150	< 150	24 hours	Environmental legislation(MARN)

Noise and Vibration

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
Noise level	dB	75	-	Use the standard of Remarks	< 70 dB	-	Road noise standards in Japan
Vibration level	dB	< 60	-	Use the standard of Remarks	< 70 dB	-	Vibration standard of Japanese road

3. Others

Item	Monitoring results
Abnormality	Not admitted

ENVIRONMENTAL AND SOCIAL MONITORING FORMAT

Project:	No. of monitoring: 5
Delgado Sal 38	Date: 30th August 2018

1. Responses / Actions to the Comments and Guidance of Government Authorities and the Public

Monitoring Items	Monitoring results during the Report Period
Responses / Actions to the Comments and Guidance of Government	Noise level is beyond the criteria, even it is the before the construction situation, due to heavy traffic situation.
Responses / Actions to the Comments of the Public	No comment

2. Pollution

Air quality

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
PM2.5	µg/m3	12	-	Use the standard of Remarks	< 35	24 hours	Central American Index of Air Quality Environmental legislation (MARN)
PM10	µg/m3	15	-	< 150	< 150	24 hours	

Noise and Vibration

Parameter	Unit	Measured Value (Mean)	Measured Value (Max)	Country's Standards	Referenced International Standards	Averaging Time	Remarks
Noise level	dB	76	-	Use the standard of Remarks	< 70 dB	-	Road noise standards in Japan
Vibration level	dB	< 60	-	Use the standard of Remarks	< 70 dB	-	Vibration standard of Japanese road

3. Others

Item	Monitoring results
Abnormality	Not admitted