# **ENVIRONMENTAL MONITORING FORMAT**

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

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

3	1. Responses / Actions to the Comments and Outdance of Government Addiorities and the Fubile				
Monitoring Items		Monitoring results during the Report Period			
	Responses / Actions to the Comments	Only turbidity is beyond the criteria due to flood condition, it is not avoidable			
	and Guidance of Government	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/m3	14	•	Use the standard of Remarks	<35	24 hours	Central American Index of Air Quality
PM10	μg/m3	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
рH		7.7	7.7	6.5 - 7.5	6.5 - 8.5		Environmental legislation(MARN)
Dissolved oxyger	mg/L	7.0	7.0	5≦	-	_	Environmental legislation(MARN)
BOD5	mg/L	-	1	Use the standard of Remarks	<i>≦</i> 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	<i>≦</i> 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	to to	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	Excavated soil is not also flowing out at the time of the flood
(Management of excavated sediment)	Excavated soft is not also flowing out at the time of the floor
Living / Livelihood	No claim.
(Claim from residents)	
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#### ENVIRONMENTAL MONITORING FORMAT No. of monitoring: 1 Project: Date: 10th August 2018 Monitoring point Motochico Before construction works 14 Responses // Actions to the Comments and Guidance of Government Authorities and the Public Monitoring results during the Report Period Monitoring Items Responses / Actions to the Comments All monitoring results is normal value in the standards and Guidance of Government Responses / Actions to the Comments of the Public No comment 2. Pollution Air quality Measured Measured Referenced Country's Averaging International Remarks Parameter Unit Value Value Standards Time (Mean) (Max) Standards Jse the standard of N.A. PM2.5 < 35 24 hours μg/m3 Remarks Quality <150 PM10 μg/m3 N.A. <150 24 hours erislation(MARN) Water quality Measured Measured Referenced Country's Averaging International Remarks Value Value Parameter Unit Standards Time (Mean) (Max) Standards Environmenta 6.5 - 7.5 6.5 - 8.5 рΗ 7.0 7.0 legislation(MARN) Environmental Dissolved oxyge mg/L 4.8 4.8 5≤ legislation(MARN) Water quality standards of se the standard of <u>≤</u>5 N.A. BOD5 N.A. mg/L Remarks Japanese rivers 27.4 20 - 30 Temperature °C 27.4 egislation(MARN) invironmental ≦5 **≦**5 NTU 3.4 Turbidity 3.4 egislation(MARN) Noise and Vibration Measured Measured Referenced Country's Averaging Remarks International Parameter Unit Value Value Standards Time (Mean) (Max) Standards Ise the standard of Road noise standards in Japan Noise level dΒ 55 < 70 dBRemarks Use the standard of Vibration standard of Japanese < 70 dB<60 Vibration level dB Remarks road 3.Others Monitoring results Item 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 All monitoring results is normal, within the standard criteria and Guidance of Government Responses / Actions to the Comments of the Public No comment 2. Pollution Air quality Measured Measured Referenced Country's Averaging Parameter Unit Value Value International Remarks Standards Time (Mean) (Max) Standards Use the standard of Central American Index of Air 14 PM2.5 < 35 μg/m3 24 hours Remarks Quality Environmental PM10 <150 µg/m3 18 <150 24 hours legislation(MARN) Noise and Vibration Measured Measured Referenced Country's Averaging Parameter Unit Value Value Remarks International Standards Time (Mean) (Max) Standards Use the standard of dΒ Road noise standards in Japan Noise level 65 < 70 dBRemarks Vibration standard of Japanese < 70 dBVibration level < 60 dB Remarks road 3.Others Item Monitoring results Abnormality Not admitted

### ENVIRONMENTAL AND SOCIAL MONITORING FORMAT No. of monitoring: 3 Project: Date: 30th August 2018 Monitoring point Los Chorros Before construction 1. Responses / Actions to the Comments and Guidance of Government Authorities and the Public Monitoring results during the Report Period Monitoring Items Noise level is beyond the criteria, even it is the before the construction Responses / Actions to the Comments and Guidance of Government Responses / Actions to the Comments situation, due to heavy traffic situation. of the Public No comment 2. Pollution Air quality Measured Measured Referenced Country's Averaging Remarks International Parameter Unit Value Value Standards Time (Mean) (Max) Standards Use the standard of Quality Onmental 22 < 35 24 hours PM2.5 μg/m3 Remarks 31 <150 24 hours μg/m3 <150 PM10 Noise and Vibration Referenced Measured Measured Country's Averaging Value Value International Remarks. Parameter Unit Time Standards Standards (Mean) (Max) Use the standard of Road noise standards in Japan dΒ 80 < 70 dBNoise level Remarks Jse the standard Vibration level $d\mathbf{B}$ <60 < 70 dBRemarks 3.Others Item Monitoring results Not admitted Abnormality

### ENVIRONMENTAL AND SOCIAL MONITORING FORMAT Project: No. of monitoring: 4 Date: 30th August 2018 Monitoring point Zaragoza 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 Noise level is beyond the criteria, even it is the before the construction and Guidance of Government situation, due to heavy traffic situation. Responses / Actions to the Comments of the Public No comment. 2. Pollution Air quality Measured Measured Referenced Country's Averaging Parameter Unit Value Value International Remarks Standards Time (Mean) (Max) Standards se the standard of Central American Index of Air PM2.5 μg/m3 14 < 35 24 hours Remarks 24 hours μg/m3 20 <150 PM10 <150 Noise and Vibration Measured Measured Referenced Country's Averaging Unit Value Value International Remarks **Parameter** Standards Time (Mean) (Max) Standards Use the standard of dΒ 75 < 70 dBRoad noise standards in Japan Noise level Remarks Use the standard of Vibration level dB <60 < 70 dBRemarks 3 Others Item Monitoring results Abnormality Not admitted

#### ENVIRONMENTAL AND SOCIAL MONITORING FORMAT No. of monitoring: 5 Project: Date: 30th August 2018 Delgado Sal 38 1. Responses / Actions to the Comments and Guidance of Government Authorities and the Public Monitoring results during the Report Period Monitoring Items Noise level is beyond the criteria, even it is the before the construction Responses / Actions to the Comments and Guidance of Government situation, due to heavy traffic situation. Responses / Actions to the Comments No comment of the Public 2. Pollution Air quality Measured Referenced Measured Country's Averaging Remarks International Value Value Parameter Unit Time Standards Standards (Mean) (Max) Use the standard of Central American Index of Air 12 < 35 24 hours PM2.5 μg/m3 Remarks Quality Environmentar <150 24 hours 15 μg/m3 PM10 <150 Noise and Vibration Referenced Measured Measured Country's Averaging Remarks International Parameter Unit Value Value Standards Time Standards (Mean) (Max) Jse the standard Road noise standards in Japan 76 < 70 dB dΒ Noise level Remarks < 70 dBVibration level dB <60 Remarks 3 Others Monitoring results Item Abnormality Not admitted