Monitoring Form

Form PC: Monitoring Form during Pre-Construction Phase (Quarterly)

a) Monitoring Period from 01 July 2023

To 30 September 2023

S.N.	Items	Check Point and Methods	Frequency	Evaluation or Mitigation status Y:Good /Yes N: Poor /No	Remark And Signature by Checker
1	Progress of land acquisition	17. To check list of landowners 18. To check the result of discussion with landowners 19. To check the compensation condition for all landowners 20. To check the signature by landowners on the agreement for land title changes	☑Quarterly	☑Y / ☐N ☑Y / ☐N ☑Y / ☐N ☑Y / ☐N	Total percentage of progress, Issues and challenge 75%
2	Progress of compensation payment status	9. To check compensation payment status based on discussion 10. To collect complain from PAPs through random Interviews with landowners	☑Quarterly	☑Y / ☐N ☑Y / ☐N	75%
Total				Yes 6 No 0	

Source: JICA Survey Team

Form C-1: Monitoring Form during Construction Stage (Quarterly)

a) Monitoring Period From 01 July 2023

To 30 September 2023

S.N.	Items	Check Point	Frequency	Evaluation or Mitigation status Y:Good /Yes N: Poor /No	Remark And Signature by Checker
➢ Check that the Contractor is performing mitigation measures as following.					
1/5	Air pollution/ Noise and vibration	- Sprinkling water to bore land	☒ Quarterly	☒ Y / ☐ N	
		- Complain from surrounding communities	☒ Quarterly	☒ Y / ☐ N	
		- Adequate maintenance of construction vehicles and machines	☒ Quarterly	☒ Y / ☐ N	
		- Working time of construction machine	☒ Quarterly	☒ Y / ☐ N	
		- (To be added as necessary)	☐ Quarterly	☐ Y / ☐ N	
2/6	Water quality/Ecosystem	➢ Visual check to Palu River condition (Occurrence of Turbid water)	☒ Quarterly	☒ Y / ☐ N	
3	Waste management (Construction waste disposal)	➢ Check construction waste management plan (Waste collection and disposal plan) ➢ Check status of waste management plan	☒ Quarterly ☒ Quarterly	☒ Y / ☐ N	
		➢ Visual inspection in disposal site (number of bins)	☒ Quarterly	☒ Y / ☐ N	
4	Soil Contamination	➢ Check oil storage facilities	☐ Quarterly	☒ Y / ☐ N	
8	Poverty (Employee)	➢ Check number of local employees from surrounding communities (including PAP as resettlement)	☒ Quarterly	☒ Y / ☐ N	
9/-12	Existing social infrastructure and service/ Infectious disease and HIV/AIDS/ Occupational Health and Safety/Accident	➢ Check traffic management plan	☒ Quarterly	☒ Y / ☐ N	
		➢ Visual inspection of covering truck	☒ Quarterly	☒ Y / ☐ N	
		➢ Complain from surrounding communities	☒ Quarterly	☒ Y / ☐ N	
		➢ Check and visual inspection of present and management of Toilet	☒ Quarterly	☒ Y / ☐ N	
		➢ Hearing to local people about new infection statistic of HIV case	☒ Quarterly	☒ Y / ☐ N	

S.N.	Items	Check Point	Frequency	Evaluation or Mitigation status Y:Good /Yes N: Poor /No	Remark And Signature by Checker
		➢ Check implementation records of health awareness and monitoring for both of local people and construction workers.	☒ Quarterly	☒ Y / ☐ N	
		- Setting warning sign	☒ Quarterly	☒ Y / ☐ N	
		- Speed limit	☒ Quarterly	☒ Y / ☐ N	
		- Provisional use of safety gear	☒ Quarterly	☒ Y / ☐ N	
		- Awareness of occupational hazards	☒ Quarterly	☒ Y / ☐ N	
		- Safety procedure	☒ Quarterly	☒ Y / ☐ N	
Total				Yes 26 No 0	

Source: JICA Survey Team

S.N.	Items	Check Point	Frequency	Evaluation or Mitigation status Y:Good /Yes N: Poor /No	Remark And Signature by Checker
		➢ Check implementation records of health awareness and monitoring for both of local people and construction workers.	☒Quarterly	☒Y / ☐N	2
		- Setting warning sign	☒Quarterly	☒Y / ☐N	2
		- Speed limit	☒Quarterly	☒Y / ☐N	2
		- Provisional use of safety gear	☒Quarterly	☒Y / ☐N	2
		- Awareness of occupational hazards	☒Quarterly	☒Y / ☐N	in tool box meetings 2
		- Safety procedure	☒Quarterly	☒Y / ☐N	2
Total				Yes 19, No 1	2

Source: JICA Survey Team

Sample Monitoring Format for Land Acquisition

No	Explanation of the site (e.g. Area.no of resettlement HHs etc)	Status (Completed(date)/not complete)	Details (e.g. Site selection, identification of candidates sites, discussion with PAPs, Development of the site etc)	Expected Date of Completion
1	1 fenced land	Not complete	1) A Discussion with PUPR	30 December 2023
2	Occupied houses, 3 units	No Complete	1) A Discussion with PAP 2) A Discussion with PUPR	30 December 2023
3	PT. Arba on STA 0+00	No Complete	1) A Discussion with PAP 2) A Discussion with PUPR	30 December 2023

No	Date	Place	Contents of the consultation/main comments and answers
1	8 August 2024	Site office	PT Arba professed himself as the landowner of the Site, from STA 0+000 to 0+040, and complained about our activity for the preparation of the Embankment Work. According to him, a land distanced around 50m from the beginning point of the project has still been owner's possession.
2	23 August 2024	Site office	the Client informed that he needs a confirmation letter from PT Arba as evidence to approach the Palu government. He also informed that project A2 is in the process to resolve the same issue with PT Arba.
3	07 September 2024	Site	the Contractor informed that he has initiatively met the owner of PT. Arba on 04 September 2023. PT. Arba informed that he has had meetings with Dinas PU and Palu Government and made a settlement with those related parties, now he is waiting for the finalization of the administration with the Palu Government.

Resettlement Activities	Planned Total	Unit	Progress of Quantity			Progress in %		Expected Date of Completion	Responsible Organization
			During the quarter	Till the last quarter	Up to the quarter	Till the last quarter	Up to the quarter		
1.Progress of Compensation Payment		**No.of HHs**							
1) 1 fenced land	± 0,1	Ha	± 0,1	± 0,1	± 0,1	60%	60%	December 2023	**PUPR and Palu Gov.**
2) Occupied houses, 3 units	3	units	1	3	1	60%	80%	30 December 2023	
3) PT. Arba on STA 0+00		Ha	± 0,5	± 0,5	± 0,5	70%	90%	December 2023	
2. Progress of Land acquisition (All sites)									
(1) 1 fenced land	± 0,1	Ha	± 0,1	± 0,1	± 0,1	60%	60%	02 Feb 2023	**PUPR and Palu Gov.**
(2) Occupied houses, 3 units	3	units	3	3	3	60%	80%	30 December 2023	
(3) PT. Arba on STA 0+00	± 0,5	Ha	± 0,5	± 0,5	± 0,5	70%	90%	30 December 2023	

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	25 July 2023

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Existing Social Infrastructure and Service	Checking traffic management activities based on traffic management plan	☑ OK / ☐ Special note	
	Visual inspection for covering truck	☑ OK / ☐ Special note	
	Complaint from surrounding communities	☑ None / ☐ Special note	
Infectious Disease	Checking and visual inspection for present and management of toilet	☑ OK / ☐ Special note	
Any Other Remarkable Issues/Remarks			

Monitoring Record

Category	Social Environment Management
Frequency	Quarterly
Date & Time	25 July 2023

Item	Monitoring Item	Monitoring Results	Information
Infectious Disease	Hearing to local clinics and hospitals about new infection statistic and preventive measures	☑ None / ☐ Special note	
Occupational Health	Checking implementation record of health awareness and monitoring for both local people and construction workers	☑ None / ☐ Special note	
Any Other Remarkable Issues/Remarks			

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	25 July 2023

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Occupational Health	Setting warning signs	☑ OK / ☐ Not OK	
	Speed limit signs	☑ OK / ☐ Not OK	
	Provisional use of safety gear	☑ OK / ☐ Not OK	
	Awareness of occupational hazards	☑ OK / ☐ Not OK	in tool box meeting.
	Safety procedure	☑ OK / ☐ Not OK	
Any Other Remarkable Issues/Remarks			

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Emergency Risk
Frequency	Monthly / As necessary
Date & Time	25 July 2023

Item	Monitoring Item	Monitoring Results	Countermeasures / Information
Flood / Fire	Condition of equipment to be prepared based on the emergency response plan (Monthly)	☑ OK / ☐ Not OK	Fire extinguisher / life jacket
	Record of emergency case	☑ N/A / ☐ Special note	
	Training record	☑ N/A / ☐ Special note	
Earthquake	Hearing to the relevant authorities about applicable evacuation spot	☑ None / ☐ Special note	
	Updating evacuation procedure	☑ N/A / ☐ Special note	
	Evacuation training record	☑ N/A / ☐ Special note	Already conducted on January 2023
Any Other Remarkable Issues/Remarks			

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	July /2023

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
03.07.23	A	Plastic, paper, bottle	240	Liter	office	Brought to public disposal	
03.07.23	A	plastic, rice paper, Covers	480	Liter	Site (east & west)		
06.07.23	A	plastic, paper, bottle	240	Liter	Office	Brought to Public disposal	
06.07.23	A	Rice paper, bottle, Cove	600	Liter	Site (east & west)		
10.07.23	A	Rice paper, Bottle, Plastic	240	Liter	Office	Brought to Public disposal	
10.07.23	A	Plastic, Rice paper, Cover	600	Liter	Site (east & West)		
14.07.23	A	Rice paper, Plastic	240	Liter	office	Brought to Public disposal	
14.07.23	A	Bentonite Bag, Plastic	720	Liter	Site (east & west)		

*1 Classification of Waste

A: Human waste B: Surplus soil C: Scrap D: Wooden E: Chemical waste F: Recycle item G: Others (describe in detail)

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	July / 2023

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
17.07.23	A	Plastic, bottel, paper	240	Liter	Office	Brought to Public disposal	
17.07.23	A.	Rice paper Cores, Plastic	600	Liter.	Site (east & west)		
20.07.23	A	Paper, Plastic, Cores	240	Liter	office	Brought to Public disposal	
20.07.23	A	Rice paper, Bottle, Cores	480	Liter	Site (east & west)		
24.07.23	A	Plastic, paper, Bottle	240	Liter	Office.	Brought to Public disposal	
24.07.23	A.	Rice paper, Plastic, Bottle	480	Liter.	Site (east & west)		

*1 Classification of Waste

A: Human waste B: Surplus soil C: Scrap D: Wooden E: Chemical waste F: Recycle item G: Others (describe in detail)

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	27 Sept. 2023

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Existing Social Infrastructure and Service	Checking traffic management activities based on traffic management plan	☑ OK / ☐ Special note	
	Visual inspection for covering truck	☑ OK / ☐ Special note	
	Complaint from surrounding communities	☑ None / ☐ Special note	
Infectious Disease	Checking and visual inspection for present and management of toilet	☑ OK / ☐ Special note	
Any Other Remarkable Issues/Remarks			

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	27 Agust 2023

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Occupational Health	Setting warning signs	☑ OK / ☐ Not OK	
	Speed limit signs	☑ OK / ☐ Not OK	
	Provisional use of safety gear	☑ OK / ☐ Not OK	
	Awareness of occupational hazards	☑ OK / ☐ Not OK	in tool box meeting
	Safety procedure	☑ OK / ☐ Not OK	
Any Other Remarkable Issues/Remarks			

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Emergency Risk
Frequency	Monthly / As necessary
Date & Time	27 August 2023

Item	Monitoring Item	Monitoring Results	Countermeasures / Information
Flood / Fire	Condition of equipment to be prepared based on the emergency response plan (Monthly)	☑ OK / ☐ Not OK	Fire extinguisher / life jacket
	Record of emergency case	☑ N/A / ☐ Special note	
	Training record	☑ N/A / ☐ Special note	
Earthquake	Hearing to the relevant authorities about applicable evacuation spot	☑ None / ☐ Special note	
	Updating evacuation procedure	☑ N/A / ☐ Special note	
	Evacuation training record	☑ N/A / ☐ Special note	Already conducted on Jan 2023
Any Other Remarkable Issues/Remarks			

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	August / 2023

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
01.08.2023	A	plastic, bottle, paper	240	Liter	office	Brought to public disposal	
	A	Rice paper, cane, bottle	600	Liter	Site (east & west)		
05.08.2023	A	Paper, plastic, Bottle	240	Liter	office	Brought to public disposal	
	A	Bottle, plastic, cane	600	Liter	Site (east & west)		
11.08.2023	A	paper, plastic, cane	240	Liter	office	Brought to public disposal	
	A	plastic, cane, bottle	480	Liter	Site (east & west)		
18.08.2023	A	Paper, Bottle, riceyaper	240	Liter	office	Brought to public disposal	
	A	Rice paper, cane, plastic	720	Liter	Site (east & west)		

*1 Classification of Waste

A: Human waste B: Surplus soil C: Scrap D: Wooden E: Chemical waste F: Recycle item G: Others (describe in detail)

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	August /2023

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
23.08.2023	A	plastic, paper, bottle	240	Liter	office	Brought to public disposal	
	A	plastic, ricepaper, core	480	Liter	Site (east & west)		
27.08.2023	A	Paper, plastic, core	240	Liter	office	Brought to public disposal	
	A	plastic, bottle core	480	Liter	Site (east & west)		
31.08.2023	A	paper, plastic, bottel	240	Liter	Office	Brought to public disposal	
	A	Bottle, ricepaper, plastic	6060	Liter.	Site (east & west)		

*1 Classification of Waste

A: Human waste B: Surplus soil C: Scrap D: Wooden E: Chemical waste F: Recycle item G: Others (describe in detail)

F.2 Environmental Monitoring Record

- Pollution Control

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Pollution Control
Frequency	As described
Date & Time	27 Sept 2023

Item	Monitoring Item	Frequency	Monitoring Result Y: Good / Yes N: Poor / No	Countermeasures
Noise and Vibration	Visual checking for condition of construction work	Every 6 months	☑ Y / ☐ N	conducted on Mei 2023
	Noise threshold value	Every 6 months	☑ Y / ☐ N	—
Physical Factor	Visual checking for condition of construction work	Every 1 year	☑ Y / ☐ N	conducted on Des 2022
	Light intensity measurement	Every 1 year	☑ Y / ☐ N	—
Chemical Factor	Clean air measurement	Every 1 year	☑ Y / ☐ N	—
Fixed source (equipment) emissions	Visual checking for condition of construction work	Every 1 year	☑ Y / ☐ N	—
	Emission gas measurement	Every 1 year	☑ Y / ☐ N	—
Vehicle emissions	Visual checking for condition of construction work	Every 1 year	☑ Y / ☐ N	—
	Emission gas measurement	Every 1 year	☑ Y / ☐ N	—
Waste water	Visual checking for condition of construction work	Every 6 months	☑ Y / ☐ N	conducted on Mei 2023
	Waste water measurement	Every 6 months	☑ Y / ☐ N	—
Ambient air (Air Quality)	Air quality measurement	Every 6 months	☑ Y / ☐ N	—
Water quality	Checking water quality of Palu river.	Every 1 year	☑ Y / ☐ N	conducten on Des 2022
Biological Factor	Index diversity of plankton and benthos	Before / After Construction	☑ Y / ☐ N	conducted on Des 2022

- Existing Social Infrastructure and Service
- Infectious Disease
- Occupational health

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	27 Sep 2023

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Existing Social Infrastructure and Service	Checking traffic management activities based on traffic management plan	☑ OK / ☐ Special note	
	Visual inspection for covering truck	☑ OK / ☐ Special note	
	Complaint from surrounding communities	☑ None / ☐ Special note	
Infectious Disease	Checking and visual inspection for present and management of toilet	☑ OK / ☐ Special note	
Any Other Remarkable Issues/Remarks			

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Social Environment Management
Frequency	Quarterly
Date & Time	27 Sep 2023

Item	Monitoring Item	Monitoring Results	Information
Infectious Disease	Hearing to local clinics and hospitals about new infection statistic and preventive measures	☑ None / ☐ Special note	
Occupational Health	Checking implementation record of health awareness and monitoring for both local people and construction workers	☑ None / ☐ Special note	
Any Other Remarkable Issues/Remarks			

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	27 Sep 2023

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Occupational Health	Setting warning signs	☑ OK / ☐ Not OK	
	Speed limit signs	☑ OK / ☐ Not OK	
	Provisional use of safety gear	☑ OK / ☐ Not OK	
	Awareness of occupational hazards	☑ OK / ☐ Not OK	in tool box meeting.
	Safety procedure	☑ OK / ☐ Not OK	
Any Other Remarkable Issues/Remarks			

- Flood / Fire
- Earthquake

TOKYU CONSTRUCTION CO., LTD.
Reconstruction of Palu 4 Bridges

Monitoring Record

Category	Emergency Risk
Frequency	Monthly / As necessary
Date & Time	27 Sep 2023

Item	Monitoring Item	Monitoring Results	Countermeasures / Information
Flood / Fire	Condition of equipment to be prepared based on the emergency response plan (Monthly)	☑ OK / ☐ Not OK	Fire extinguiser / life jacket
	Record of emergency case	☑ N/A / ☐ Special note	
	Training record	☑ N/A / ☐ Special note	
Earthquake	Hearing to the relevant authorities about applicable evacuation spot	☑ None / ☐ Special note	
	Updating evacuation procedure	☑ N/A / ☐ Special note	
	Evacuation training record	☑ N/A / ☐ Special note	conducten on Jan 2023
Any Other Remarkable Issues/Remarks			