MONITORING FORM

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

a) Monitoring Period From 01 January 2025

To 30 April 2025

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	1. To check list of landowners 2. To check the result of discussion with landowners 3. To check the compensation condition for all landowners 4. 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 100 %
2	Progress of compensation payment status	1. To check compensation payment status based on discussion 2. To collect complain from PAPs through random Interviews with landowners	☑Quarterly	☐Y / ☐N ☐Y / ☐N	20 %
Total				Yes —, No —	

Source: JICA Survey Team

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

a) Monitoring Period From 01 January 2025

To 30 April 2025

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/Ecosyst em	➢ 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)	☒ Quarterly	☒ Y / ☐ N	
		➢ Check status of waste management plan	☒ Quarterly		
		➢ 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 20 No 0	

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	None	None	None	None
2				

No	Date	Place	Contents of the consultation/main comments and answers
1	None	None	None
2			

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 RCAP revision based on stakeholder meetings	None	None	None	None	None	None	None	None	None
Revision of RCAP			Date of finalization						
2.Finalization of PAPs List		**No.of PAPs**							
3.Progress of Compensation Payment		**No.of HHs**							
(1) Lot1		No.of HHs							
(2) Lot2		No.of HHs							
(3) XXX									
4. Progress of Land acquisition (All sites)									
(1) Lot1		Ha							
(2) Lot2		Ha							
(3) XXX									

F.3 Environmental Monitoring Record

Monitoring Record

Category	Social Environment Management
Frequency	Quarterly
Date & Time	Jan 31st, 2025

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			

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	Jan 31st, 2025

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Existing Social Infrastructure and Service	Checking traffic management activities based on traffic management plan	☒ OK / ☐ Special note	Traffic management checkers are always performed based on a traffic management plan
	Visual inspection for covering truck	☒ OK / ☐ Special note	The tailgate cover is always attached
	Complaint from surrounding communities	☒ OK / ☐ Special note	No complaints from the surrounding community
Infectious Disease	Checking and visual inspection for present and management of toilet	☒ OK / ☐ Special note	Toilets are always cleaned every day
Any Other Remarkable Issues/Remarks Reducing the amount of dust by doing street watering			

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	Jan 31st, 2025

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Occupational Health	Setting warning signs	☒ OK / ☐ Not OK	Already installed
	Speed limit signs	☒ OK / ☐ Not OK	Already installed
	Provisional use of safety gear	☒ OK / ☐ Not OK	Safety gear is always worn
	Awareness of occupational hazards	☒ OK / ☐ Not OK	Awareness of occupational hazards is always reminded in the toolbox meeting
	Safety procedure	☒ OK / ☐ Not OK	Compliance with safety procedures
Any Other Remarkable Issues/Remarks			

Monitoring Record

Category	Emergency Risk
Frequency	Monthly / As necessary
Date & Time	Jan 31st, 2025

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	Inspection of the condition of emergency response equipment is carried out monthly
	Record of emergency case	☒ N/A / ☐ Special note	
	Training record	☒ N/A / ☐ Special note	Conducted on February 28, 2024
Earthquake	Hearing to the relevant authorities about applicable evacuation spot	☒ N/A / ☐ Special note	
	Updating evacuation procedure	☒ N/A / ☐ Special note	
	Evacuation training record	☒ N/A / ☐ Special note	Conducted on February 19, 2024, and reconducted on February 28, 2024.
Any Other Remarkable Issues/Remarks			

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	01/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
03-01-25	`A	Papper, plastic, bottle	531	Liters	Office & Site (East & West)	Brough to public disposal	
06-01-25	A	Papper, plastic, bottle	474	Liters	Office & Site (East & West)	Brough to public disposal	
08-01-25	A	Papper, plastic, bottle	540	Liters	Office & Site (East & West)	Brough to public disposal	
10-01-25	A	Papper, plastic, bottle	488	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	01/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
13-01-25	A	Papper, plastic, bottle	531	Liters	Office & Site (East & West)	Brough to public disposal	
15-01-25	A	Papper, plastic, bottle	471	Liters	Office & Site (East & West)	Brough to public disposal	
17-01-25	A	Papper, plastic, bottle	517	Liters	Office & Site (East & West)	Brough to public disposal	
20-01-25	A	Papper, plastic, bottle	541	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	01/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
22-01-25	A	Papper, plastic, bottle	531	Liters	Office & Site (East & West)	Brough to public disposal	
24-01-25	A	Papper, plastic, bottle	471	Liters	Office & Site (East & West)	Brough to public disposal	
27-01-25	A	Papper, plastic, bottle	1002	Liters	Office & Site (East & West)	Brough to public disposal	
29-01-25	A	Papper, plastic, bottle	471	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Pollution Control
Frequency	As described
Date & Time	January 31st, 2025

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 December 17, 2024
	Noise threshold value	Every 6 months	☒ Y / ☐ N	Conducted on December 17, 2024
Physical Factor	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on May 21, 2024
	Light intensity measurement	Every 1 year	☒ Y / ☐ N	Conducted on May 21, 2024
Chemical Factor	Clean air measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Fixed source (equipment) emissions	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
	Emission gas measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Vehicle emissions	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
	Emission gas measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Waste water	Visual checking for condition of construction work	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
	Waste water measurement	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
Ambient air (Air Quality)	Air quality measurement	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
Water quality	Checking water quality of Palu river.	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Biological Factor	Index diversity of plankton and benthos	Before / After Construction	☒ Y / ☐ N	Conducted on December 17, 2024

F.3 Environmental Monitoring Record

Monitoring Record

Category	Social Environment Management
Frequency	Quarterly
Date & Time	Feb 28th, 2025

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			

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	Feb 28th, 2025

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Existing Social Infrastructure and Service	Checking traffic management activities based on traffic management plan	☒ OK / ☐ Special note	Traffic management checkers are always performed based on a traffic management plan
	Visual inspection for covering truck	☒ OK / ☐ Special note	The tailgate cover is always attached
	Complaint from surrounding communities	☒ OK / ☐ Special note	No complaints from the surrounding community
Infectious Disease	Checking and visual inspection for present and management of toilet	☒ OK / ☐ Special note	Toilets are always cleaned every day
Any Other Remarkable Issues/Remarks Reducing the amount of dust by doing street watering			

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	Feb 28th, 2025

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Occupational Health	Setting warning signs	☒ OK / ☐ Not OK	Already installed
	Speed limit signs	☒ OK / ☐ Not OK	Already installed
	Provisional use of safety gear	☒ OK / ☐ Not OK	Safety gear is always worn
	Awareness of occupational hazards	☒ OK / ☐ Not OK	Awareness of occupational hazards is always reminded in the toolbox meeting
	Safety procedure	☒ OK / ☐ Not OK	Compliance with safety procedures
Any Other Remarkable Issues/Remarks			

Monitoring Record

Category	Emergency Risk
Frequency	Monthly / As necessary
Date & Time	Feb 28th, 2025

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	Inspection of the condition of emergency response equipment is carried out monthly
	Record of emergency case	☒ N/A / ☐ Special note	
	Training record	☒ N/A / ☐ Special note	Conducted on February 28, 2024
Earthquake	Hearing to the relevant authorities about applicable evacuation spot	☒ N/A / ☐ Special note	
	Updating evacuation procedure	☒ N/A / ☐ Special note	
	Evacuation training record	☒ N/A / ☐ Special note	Conducted on February 19, 2024, and reconducted on February 28, 2024.
Any Other Remarkable Issues/Remarks			

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	02/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
31-01-25	`A	Papper, plastic, bottle	531	Liters	Office & Site (East & West)	Brough to public disposal	
03-02-25	A	Papper, plastic, bottle	474	Liters	Office & Site (East & West)	Brough to public disposal	
05-02-25	A	Papper, plastic, bottle	540	Liters	Office & Site (East & West)	Brough to public disposal	
07-02-25	A	Papper, plastic, bottle	488	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	02/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
10-02-25	A	Papper, plastic, bottle	531	Liters	Office & Site (East & West)	Brough to public disposal	
12-02-25	A	Papper, plastic, bottle	471	Liters	Office & Site (East & West)	Brough to public disposal	
14-02-25	A	Papper, plastic, bottle	517	Liters	Office & Site (East & West)	Brough to public disposal	
17-02-25	A	Papper, plastic, bottle	541	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	02/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
19-02-25	A	Papper, plastic, bottle	531	Liters	Office & Site (East & West)	Brough to public disposal	
21-02-25	A	Papper, plastic, bottle	471	Liters	Office & Site (East & West)	Brough to public disposal	
24-02-25	A	Papper, plastic, bottle	1002	Liters	Office & Site (East & West)	Brough to public disposal	
26-02-25	A	Papper, plastic, bottle	471	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Pollution Control
Frequency	As described
Date & Time	February 28th, 2025

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 December 17, 2024
	Noise threshold value	Every 6 months	☒ Y / ☐ N	Conducted on December 17, 2024
Physical Factor	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on May 21, 2024
	Light intensity measurement	Every 1 year	☒ Y / ☐ N	Conducted on May 21, 2024
Chemical Factor	Clean air measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Fixed source (equipment) emissions	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
	Emission gas measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Vehicle emissions	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
	Emission gas measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Waste water	Visual checking for condition of construction work	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
	Waste water measurement	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
Ambient air (Air Quality)	Air quality measurement	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
Water quality	Checking water quality of Palu river.	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Biological Factor	Index diversity of plankton and benthos	Before / After Construction	☒ Y / ☐ N	Conducted on December 17, 2024

F.3 Environmental Monitoring Record

Monitoring Record

Category	Social Environment Management
Frequency	Quarterly
Date & Time	Mar 20th, 2025

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			

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	Mar 20th, 2025

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Existing Social Infrastructure and Service	Checking traffic management activities based on traffic management plan	☒ OK / ☐ Special note	Traffic management checkers are always performed based on a traffic management plan
	Visual inspection for covering truck	☒ OK / ☐ Special note	The tailgate cover is always attached
	Complaint from surrounding communities	☒ OK / ☐ Special note	No complaints from the surrounding community
Infectious Disease	Checking and visual inspection for present and management of toilet	☒ OK / ☐ Special note	Toilets are always cleaned every day
Any Other Remarkable Issues/Remarks Reducing the amount of dust by doing street watering			

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	Mar 20th, 2025

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Occupational Health	Setting warning signs	☒ OK / ☐ Not OK	Already installed
	Speed limit signs	☒ OK / ☐ Not OK	Already installed
	Provisional use of safety gear	☒ OK / ☐ Not OK	Safety gear is always worn
	Awareness of occupational hazards	☒ OK / ☐ Not OK	Awareness of occupational hazards is always reminded in the toolbox meeting
	Safety procedure	☒ OK / ☐ Not OK	Compliance with safety procedures
Any Other Remarkable Issues/Remarks			

Monitoring Record

Category	Emergency Risk
Frequency	Monthly / As necessary
Date & Time	Mar 20th, 2025

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	Inspection of the condition of emergency response equipment is carried out monthly
	Record of emergency case	☒ N/A / ☐ Special note	
	Training record	☒ N/A / ☐ Special note	Conducted on February 28, 2024
Earthquake	Hearing to the relevant authorities about applicable evacuation spot	☒ N/A / ☐ Special note	
	Updating evacuation procedure	☒ N/A / ☐ Special note	
	Evacuation training record	☒ N/A / ☐ Special note	Conducted on February 19, 2024, and reconducted on February 28, 2024.
Any Other Remarkable Issues/Remarks			

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	03/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
28-02-25	`A	Papper, plastic, bottle	474	Liters	Office & Site (East & West)	Brough to public disposal	
03-03-25	A	Papper, plastic, bottle	540	Liters	Office & Site (East & West)	Brough to public disposal	
05-03-25	A	Papper, plastic, bottle	488	Liters	Office & Site (East & West)	Brough to public disposal	
07-03-25	A	Papper, plastic, bottle	531	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	03/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
10-03-25	A	Papper, plastic, bottle	471	Liters	Office & Site (East & West)	Brough to public disposal	
12-03-25	A	Papper, plastic, bottle	517	Liters	Office & Site (East & West)	Brough to public disposal	
14-03-25	A	Papper, plastic, bottle	541	Liters	Office & Site (East & West)	Brough to public disposal	
17-03-25	A	Papper, plastic, bottle	531	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	03/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
19-03-25	A	Papper, plastic, bottle	471	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Pollution Control
Frequency	As described
Date & Time	March 20th, 2025

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 December 17, 2024
	Noise threshold value	Every 6 months	☒ Y / ☐ N	Conducted on December 17, 2024
Physical Factor	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on May 21, 2024
	Light intensity measurement	Every 1 year	☒ Y / ☐ N	Conducted on May 21, 2024
Chemical Factor	Clean air measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Fixed source (equipment) emissions	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
	Emission gas measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Vehicle emissions	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
	Emission gas measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Waste water	Visual checking for condition of construction work	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
	Waste water measurement	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
Ambient air (Air Quality)	Air quality measurement	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
Water quality	Checking water quality of Palu river.	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Biological Factor	Index diversity of plankton and benthos	Before / After Construction	☒ Y / ☐ N	Conducted on December 17, 2024

F.2 Environmental Monitoring Record

Monitoring Record

Category	Social Environment Management
Frequency	Quarterly
Date & Time	Apr 26th, 2025

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			

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	Apr 26th, 2025

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Existing Social Infrastructure and Service	Checking traffic management activities based on traffic management plan	☒ OK / ☐ Special note	Traffic management checkers are always performed based on a traffic management plan
	Visual inspection for covering truck	☒ OK / ☐ Special note	The tailgate cover is always attached
	Complaints from surrounding communities	☒ OK / ☐ Special note	No complaints from the surrounding community
Infectious Disease	Checking and visual inspection for present and management of toilet	☒ OK / ☐ Special note	Toilets are always cleaned every day
Any Other Remarkable Issues/Remarks Reducing the amount of dust by doing street watering			

Monitoring Record

Category	Social Environment Management
Frequency	Monthly
Date & Time	Apr 26th, 2025

Item	Monitoring Item	Monitoring Results	Information / Countermeasures
Occupational Health	Setting warning signs	☒ OK / ☐ Not OK	Already installed
	Speed limit signs	☒ OK / ☐ Not OK	Already installed
	Provisional use of safety gear	☒ OK / ☐ Not OK	Safety gear is always worn
	Awareness of occupational hazards	☒ OK / ☐ Not OK	Awareness of occupational hazards is always reminded in the toolbox meeting
	Safety procedure	☒ OK / ☐ Not OK	Compliance with safety procedures
Any Other Remarkable Issues/Remarks			

Monitoring Record

Category	Emergency Risk
Frequency	Monthly / As necessary
Date & Time	Apr 26th, 2025

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	Inspection of the condition of emergency response equipment is carried out monthly
	Record of emergency case	☒ N/A / ☐ Special note	
	Training record	☒ N/A / ☐ Special note	Conducted on February 28, 2024
Earthquake	Hearing to the relevant authorities about applicable evacuation spot	☒ N/A / ☐ Special note	
	Updating evacuation procedure	☒ N/A / ☐ Special note	
	Evacuation training record	☒ N/A / ☐ Special note	Conducted on February 19, 2024, and reconducted on February 28, 2024.
Any Other Remarkable Issues/Remarks			

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	04/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
09-04-25	`A	Papper, plastic, bottle	474	Liters	Office & Site (East & West)	Brough to public disposal	
11-04-25	A	Papper, plastic, bottle	540	Liters	Office & Site (East & West)	Brough to public disposal	
14-04-25	A	Papper, plastic, bottle	488	Liters	Office & Site (East & West)	Brough to public disposal	
16-04-25	A	Papper, plastic, bottle	531	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Waste
Frequency	Monthly
MM/YY	04/25

Date	Type of Waste *1		Qty	Unit	Generated from	Waste Management Activities	Note
18-04-25	A	Papper, plastic, bottle	471	Liters	Office & Site (East & West)	Brough to public disposal	
21-04-25	A	Papper, plastic, bottle	517	Liters	Office & Site (East & West)	Brough to public disposal	
23-04-25	A	Papper, plastic, bottle	541	Liters	Office & Site (East & West)	Brough to public disposal	
25-04-25	A	Papper, plastic, bottle	531	Liters	Office & Site (East & West)	Brough to public disposal	

*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)

Monitoring Record

Category	Pollution Control
Frequency	As described
Date & Time	April 26th, 2025

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 December 17, 2024
	Noise threshold value	Every 6 months	☒ Y / ☐ N	Conducted on December 17, 2024
Physical Factor	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on May 21, 2024
	Light intensity measurement	Every 1 year	☒ Y / ☐ N	Conducted on May 21, 2024
Chemical Factor	Clean air measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Fixed source (equipment) emissions	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
	Emission gas measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Vehicle emissions	Visual checking for condition of construction work	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
	Emission gas measurement	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Waste water	Visual checking for condition of construction work	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
	Waste water measurement	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
Ambient air (Air Quality)	Air quality measurement	Every 6 months	☒ Y / ☐ N	Conducted on May 21, 2024
Water quality	Checking water quality of Palu river.	Every 1 year	☒ Y / ☐ N	Conducted on December 17, 2024
Biological Factor	Index diversity of plankton and benthos	Before / After Construction	☒ Y / ☐ N	Conducted on December 17, 2024