

**RAP Implementation Monitoring Form
For North South Railway Project (NSRP)**

1. General Information

- a. RAP Implementation Monitoring Results: for Progress Status Report (PSR) of 1st quarter of 2021 (Year)
 b. Date of Preparing This form: 31 March 2021
 c. Person Preparing This form: Name: CARLA GRACE Q. CANAÑA

Position: Right-of-Way Acquisition Officer
 Department/Organizations: NSCR (Malolos – Tutuban) PMO

2. Scale of Land Acquisition and Resettlement

※ **Update after finalization of RAP during DED stage**

2.1 Project Affected Households (PAHs) and Project Affected Persons (PAPs)

		<i>per RAP</i>	<i>actual number</i>	<i>remarks</i>
Total Project Affected Households (PAHs)		Legal: 395 HH	Legal: 266 Property owners under Negotiated Sale and Expropriation 45 Project-Affected Renters	Out of the 84 remaining, 75 are excluded from acquisition, 3 are for donation, and 6 shall execute a quitclaim for their property.
		Illegal: 438 (ISFs)	Illegal: 416 ISFs	as per NHA validation
PAHs which need relocation (as resident)		Legal: 88 HH	Legal: 26 HH with affected structures 45 Project-Affected Renters	The PAHs from the remaining 17 would not proceed with displacement. However, 2 out of the 17 is under validation, if full demolition of structure is required.
		Illegal: 416 (ISFs)	Illegal: 321 ISFs (147 relocated)	as per DOTr validation
PAHs which do not need relocation (as resident)		Legal: 307 HH	240 Property owners under Negotiated Sale and Expropriation	
		Illegal: 22 ISFs	Illegal: 95 ISFs	

Business owners who need relocation		14 persons	14 persons	
Business owners who do not need relocation		24 persons	24 persons	
Total PAPs	persons	Legal: 575 persons	213 persons to be displaced 240 Property owners under Negotiated Sale and Expropriation 3 persons to donate property 6 persons to execute quitclaim 75 persons with excluded properties (TOTAL: 537 persons)	x3 per Legal HH (for HH with displacement)
		Illegal: 1752 persons	1664 persons	x4 per ISF (approximate)
PAPs who need relocation (as resident)	persons	Legal: 268 persons	213 persons	x3 per Legal HH (for HH with displacement) The remaining 55 persons shall not be displaced after verifications.
		Illegal: 1664 persons	1284 persons	x4 per ISF (approximate)
PAPs who do not need relocation (as resident)	persons	Legal: 88 persons	240 persons	Property owners under Negotiated Sale and Expropriation
			380 persons	x4 per ISF (approximate)

2.2 Total Areas to be Acquired

Total	Details	
Total areas: 33,460 m ²	Residential: 9,171 m ² Commercial: 7,648 m ² Industrial: 9,057 m ² Agricultural: 5,793 m ²	Mixed Use: 478 m ² Road Lot: 766 m ² No Data: 727 m ²

2.3 Structures and Improvements

Structures/Improvements	Legal Structures: 157 (under Negotiated Sale and Expropriation Only) Illegal Structures: 310
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2.4 Crops and Trees

Rice field	4,000 m²
Trees	No. of Landowners with affected crops and trees: 31

3. Monitoring Results

3.1 Progress of Land Acquisition and Resettlement

(1) Summary of Progress: Number

As of (d/m/y)	Number of PAHs Receiving All Compensation / Subsidy for Loss of Land (HH)	Number of PAHs Receiving All Compensation / Subsidy for Loss of Structure (HH)	Number of PAHs Receiving All Compensation / Subsidy for Loss of Improvement (HH)	Number of PAHs Receiving All Compensation / Subsidy for Loss of Crop/Tree/ Perennial (HH)	Number of PAHs Receiving All Compensation / Subsidy for Loss of Income (HH)	Number of PAHs Receiving All Inconvenience Allowance (HH)	Number of PAHs Move Out Current Place (HH)	Number of ISFs Moving into Resettlement Site (HH)	Land Area Already Acquired (m ²)
31/12/2020	41 out of 228 landowners (20/132 own lot only, 21/82 own lot with structure, 0/14 own lot with improvement)	19 out of 117 structure owners (19/82 also own the land, 0/35 only own the structure)	0 out of 17 improvement owners (0/14 also own the lot, 0/3 only own the improvement)	-	-	-	153 out of 321 ISFs	148 out of 321 ISFs	779 out of 33,096 sqm

(2) Summary of Progress: Percentage

As of (d/m/y)	Percentage of PAHs Receiving All Compensation / Subsidy for Loss of Land (%)	Percentage of PAHs Receiving All Compensation / Subsidy for Loss of Structure (%)	Percentage of PAHs Receiving All Compensation / Subsidy for Loss of Improvement (%)	Percentage of PAHs Receiving All Compensation / Subsidy for Loss of Crop/Tree/Perennial (%)	Percentage of PAHs Receiving All Compensation / Subsidy for Loss of Income (%)	Percentage of PAHs Receiving All Inconvenience Allowance (%)	Percentage of PAHs Move Out Current Place (%)	Percentage of ISFs Moving into Resettlement Site (%)	Percentage of Land Area Already Acquired (%)
	17.98%	16.23%	0	-	-	-	47.66%	46.11%	2.49%

(3) Detail List of Compensation and Assistance

※ Fill in Annex "A" for Legal Owners and Annex "B" for ISFs. This format will not be disclosed.

3.2 Livelihood Restoration Programs

No.	Provided Date (d/m/y)	Name of Resettlement Site	Responsible Organization (NHA or Name of LGUs)	Program Name	Program Contents	Target Group of Program	Number of Participants
3.2.1.	Nov 25, 2020	Camarin Residences	DOTr with Caloocan HRO and NHA-Bagong Silang	Social preparation – workshop on LRIP	Workshop to establish the impact of relocation to their income and expenses, their preferred livelihood training and symbolic commitment on the skills training to be conducted	ISF-PAFs	34/49
	Dec. 10, 2020	Disiplina Village	DOTr with Valenzuela HRO, PESO and NHA-MANAWA				51/63
3.2.2	Dec. 16, 2020	Camarin Residences and Disiplina Village	DOTr with NHA – CSSD National Office, NHA-Bagong Silang Office	Coordination Meeting	The meeting was a spin-off of the workshops on LRIP. This is to establish the coordination of services that can be extended to the ISFs to maximize the resources to assist the ISFs.	NHA-CSSD	12
3.2.3	Nov. 5 & 23, 2020	N/A	Gokongwei Foundation	Coordination Meeting	To establish and explore possible partnership to extend their scholarship program (and their other programs) to the ISFs- PAFs. We extended the invitation to MMSP to join the meeting	ISF/PAFs	11

3.2.4	Dec 2020	N/A	Contractors and sub contractors CP01 AND CP02	Coordination Meeting	To request for the possible job opportunities for the ISF- PAFs	ISF/PAFs	4
3.2.5	February 2021	Disiplina Village, Valenzuela City	DOTr , Hoiusing and Resettlement Office , Valenzuela City with NHA North Sector	Validation of preferred livelihood training, setting up of kiosks in construction site (CPO1) and job placement	The actual number of participants is 56 but only 34 submitted their forms. The ISFs asked DOTr for time so they can process their responses with their family since this will be the final activity and basis of their livelihood program. We have also invited them to submit application to the contractors and subcontractors. In addition, who are interested to set up kiosks in the construction site. Only seven applied for job and five teams for the kiosks and others wished for individual kiosk.	ISF -PAFs	ISF - PAFs


3.3 Grievance Redress


No	Date Grievance Raised (d/m/y)	Location Where Person/ Entity Raising Grievance Lives	Name of LGUs (LIAC) Corresponding to Grievance	Grievance Raised	Redress Action Taken and Result
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Note: in a separate document (Annex "C")

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Department of Transportation
North-South Commuter Railway Project (Malolos-Tutuban)
Grievance Redress Mechanism (GRM)
Quarterly Monitoring Report

Department of Transportation
ROWA Team
March 2021

Executive Summary

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1. Background

1.1. Context of GRM in NSCR Project

The Government of the Philippines (hereinafter referred to as "GOP") has received a loan from the Japan International Cooperation Agency (hereinafter referred to as "JICA") to finance the North South Commuter Railway (Malolos- Tutuban) Project or the PNR North I (hereinafter referred to as "the Project"). The Project aims to provide a commuter railway service to connect Metro Manila to its adjacent northern and southern suburban areas.

The North South Commuter Railway (NSCR) Project is designed to run from Malolos, Bulacan to Tutuban, City of Manila. It comprises of main railway line on elevated viaducts and embankments, elevated ten (10) stations and depot. Total length of the Project main railway line is 37.6 km. The project has maximized the utilization of Philippine National Railways Right-of-Way (PNR ROW) in order to minimize the additional ROW acquisition. However, the Project will result in physical displacement of the Project-Affected Persons (PAPs), including Informal Settler Families (ISFs) living within the existing PNR ROW. Additionally, it will affect access roads located parallel to or across the railway track, particularly in City of Manila, Caloocan, and Malolos.

Under JICA Environmental and Social Consideration (ESC) 2010 however, the Project has been assigned with an A category for involuntary resettlement due to more than 200 people to be relocated by ROW clearing and side acquisition (ROWSA). The Project also received the same A category for its irreversible environmental impacts.

JICA Design Team (JDT) in consultation with Department of Transportations (DOTr) as the Executing Agency, put a foundation for the Project grievance and complaints handling systems. Following the Project Resettlement Action Plan (RAP) approval in 2017, DOTr established the Project grievance response mechanism (GRM) and made available of Grievance response focal points (Help Desk/Grievance Desk). Grievance Redress Committee (GRC) also has been formed at the Local Government Unit (LGU) level. The project preparation has been started in year of 2018. RAP implementation is still on going and construction activities are taking place in the priority areas such as station, embankments, and depot.

1.2. GRM Monitoring Objective and Scope

This GRM Quarterly Monitoring Report is to systematically document and analyze all grievances addressed through the Project GRM during the RAP preparation and implementation. Unresolved grievances and complaints resulting from the ongoing preconstruction and construction activities of NSCR Project's respective Contractors: Sumitomo Mitsui Construction Co. Ltd. (SMCC) of Contract Package 02 (CP02) and TAISE-DMCI-Joint Venture (TDJV) of Contract Package 01 (CP01) lifted up to DOTr are also included.

This report provides recommendations for immediate corrective actions and further improvements of the Project GRM.

The complaints and suggestions addressed through Project GRM include but not limited to the following:

- Location/alignment of subproject interventions;
- Access to improved infrastructure;
- Use of additional private lands;
- Temporary and permanent displacement of people;
- Compensation and assistance issues against displacement of people;
- Environmental concerns and construction safety;
- Gender- and vulnerability-based discriminations; and,
- Quality of works.

1.3. Report Structure

2. NSCR Project GRM Structure and Institutional Framework

2.1. GRM Policy Framework

- Appropriate and accessible grievance redress mechanism/Project GRM shall be established for affected people and their communities to resolve disputes outside of the judicial system.
- Alternative Resolution to promote alternative mechanism to resolve disputes (ADR) outside of judicial litigation and to provide means for using ADR as an effective tool shall be facilitated.
- ADR system measures such as mediation, conciliation, arbitration, or any combination of it to achieve speedy and efficient means of resolving cases pending before courts shall be explored.
- A help desk at each city/ municipality to address the concerns of PAPs pertaining to RAP and ROWA shall be established prior to the start of ROW acquisition (ROWA).
- Once the ROWA commences, GRM is triggered and the help desk shall serve as recipient and database manager of grievances filed.
- Grievances from the PAPs related to the resettlement implementation or any related issues with regards to the project will be handled, free of monetary charge, through a process of negotiations aimed at arriving at a consensus decision.
- A grievance should be resolved expeditiously at all times at the lowest level possible. However, (a) if not settled at the lowest level, (b) if the complainants are not satisfied with the action taken, or (c) the case is not acted upon after 15 days, the issue or concern will be taken to the next level
- A database of PAPs' concerns, actions taken, referrals made and resolution status of said concerns shall be developed and maintained by DOTr.

2.2. GRM Structures

The Grievance Redress Mechanism (GRM) of the project has been established in accordance with the GRM Framework above described. There are four (4) respective bodies to address grievances of PAPs as follows;

The Environment, Social and ROW Division of NSCR PMO. The Environmental, Social, and ROW Division of NSCR PMO at DOTr. This ESR Division of NSCR PMO acts as the first contact point that will accept all grievance of both legal PAFs and ISFs.

RAP Implementing Committee (RIC). For legal PAFs, their grievances will be acted upon by the RAP Implementing Committee (RIC). Resettlement Implementation Committee (RIC) has been created through a Memorandum of Understanding between the NSRP-PMO and the concerned LGUs. It has been established following the creation of PMO. Its main role, as its name connotes, is to implement the RAP. Some key important functions of the RIC include:

Participate in the conduct of information education and communication (IEC) with PAPs, throughout the RAP implementation; Assist DOTr in validating the eligibility of PAPs in relation to their corresponding entitlements; Receive grievances during RAP implementation, related but not limited to project design, parcellary survey, appraisal, compensation, extra-judicial settlement (EJS), etc.

Local Inter-agency Committee (LIAC). For ISFs, their grievances will be acted upon by the Local Inter-agency Committee (LIAC).

The Local Inter-Agency Committee (LIAC)

Following the framework, the Project has utilized the existing Local Inter-Agency Committees (LIACs) of Manila, Caloocan and Valenzuela in the overall management and implementation of relevant grievances. The LIACs is under the leadership of the Local Chief Executive (LCE), the City Mayor, with the National Housing Authority, the DOTr, the PNR and other relevant agencies in accordance with the Philippines' Republic Act 7279 and in view of LGU responsibilities and authority under the country's Local Government Code.

The LIAC has been the seat of the planning, policy issuance and implementation, information sharing, grievance resolution for ISFs.

At pre-relocation stage, the LIAC serves as the mechanism for settling complaints and grievance through its Beneficiary Selection, Arbitration and Awards Committee (BSAAC). The complaints and grievances at this stage generally consists of requests for qualification for relocation. The process involves filing of complaints by ISFs, validation, and deliberation after which the complainant may be qualified, disqualified, or deferred, subject to submission and validation of proofs of the veracity of the request. The process facilitated clarifications with the concerned ISFs and a few changes in number of ISFs for relocation, e.g., from a total of 433 ISFs based on design stage RAP to 437 as of reporting period. The BSAAC deliberations, however, have been stalled in view of the community quarantine due to COVID 19 pandemic by second half of March 2020 and is deemed to resume upon lifting of the quarantine.

The Court of Law. The court will be the final decision maker for the complaint and grievance. All cases elevated to the Court shall be outside the jurisdiction and control of the GRM. The Court of Law serves as the last recourse for resolution of complaints. So far, none of the complaints has been brought to this level, indicating that grievances are resolved within the LIACs and RIC. However, this GRM level ensures the ISFs of the opportunities for settlement of complaints in case dissatisfied with the other GRM levels.

2.3. GRM Procedures

2.3.1. Action Form

The Project's GRM Action Form and the GRM Focal Person

The DOTr/NSCR has established its GRM Action Form by which the ISFs may file their complaint. The Form indicates the name of focal person, office and contact details. The DOTr has likewise assigned a focal person to receive, categorize and forward the complaint to the person/unit concerns who, in turn, has to take the next steps following the GRM process. Annex 1 Detailed the NSCR Project Action Form.

The NSCR Project has differentiated of GRM Structures and Procedures for Legal PAPs and ISFs.

2.3.2. GRM Procedures for Legal PAPs.

First Level of grievances of legal PAPs will be received by DOTr ROWA PMO. The ROWA PMO would serve as the first level of decision-making. If at this level cannot be solved. The grievance will up lifted to the RAP Implementing Committee (RIC) as the Second Level of the GRM Structure. The RIC under the NSCR-PMO would serve as the second level of decision-making. If the RIC still cannot solve the uplifted PAP grievance, it will go to the Court of Law as the Third Level of the GRM Structure. The Court of Law will be the final decision maker for the complaint and grievance. All cases elevated to the Court shall be outside the jurisdiction and control of the GRM.

2.3.3. GRM Procedures for ISFs.

Established Help Desk/Grievance Desk at respective LGU and/or DOTr ROWA PMO will serve as GRM focal point. The grievance will be forwarded to Local Inter-agency Committee (LIAC)/or Local Housing Board / Housing and Resettlement Office of the respective LGU as the First Level of the GRM structure. If at this level the grievance cannot be solved it will be lifted up to RIC under the NSCR-PMO as the second level of decision-making. If the RIC still cannot solve the uplifted ISFs grievance will go to the Court of Law as the Third level of the GRM Structure. The Court of Law will be the final decision maker for the complaint and grievance. All cases elevated to the Court shall be outside the jurisdiction and control of the GRM.

A LIAC shall be created at all local levels where relocation will take place. This shall be headed by the city or municipal mayor of each project-affected LGU. In areas with existing relocation activities (i.e. Valenzuela, Caloocan and Manila), a LIAC will be re-convened. In case there are less than 50 PAPs per LGU, the Local Housing Board (LHB) or housing and resettlement

office of the LGU (i.e. Urban Settlements Office, Urban Poor Affairs Office), or office designated by the LGU, will be mobilized in place of the LIAC.

2.4. GRM Process Flow

First Level GRM

- Any aggrieved stakeholder will lodge his/her grievance in person to the Help/Grievance Desk, or in writing, verbally or electronically transmitted to the Grievance Officers within the NSCR PMO for immediate action.
- When received in person, the grievance may be written down by the staff of the Help/Grievance Desk on behalf of the aggrieved stakeholder, who will sign the written complaint for official submission.
 - Explain process to the aggrieved stakeholder and give contact details of where the complaint will be forwarded and who is responsible for acting on complaint.
 - Review the complaint to determine whether it is project related or not.
- If the concern is beyond the Grievance Desk Officers' capacity to decide, forward the complaint to the 2nd level.
- If the complaint is project-related, the Help/Grievance Desk will forward the complaint to the ROWA-PMO/RIC for concerns pertaining to legal PAPs and LIAC for ISFs' within 15 working days from receipt of complaint.
- If it is not project related, the Help/Grievance Desk will assist the PAP by referring the complaint to the appropriate agency or LGU who may be able to act on the complaint.
- If the aggrieved stakeholder is not satisfied with the decision of the Help/Grievance Desk that the complaint is not project related, the aggrieved stakeholder may elevate his/her complaint to the RIC or LIAC
- Receive request from the aggrieved stakeholder to elevate his/her complaint to LIAC
- Record the status of the aggrieved stakeholder complaint

Second Level GRM

RIC (Legal PAPs) or LIAC (ISFs)

Receives complaint from the Help/Grievance Desk.

- Act and decide on the complaint within 15 working days reckoning from the day it is received from Help/Grievance Desk
- Inform the Help/Grievance Desk the action and/or decision on the aggrieved stakeholder's complaint.

Help/Grievance Desk

- Receive and record decision of 2nd level decision maker.
- Inform to the aggrieved stakeholder.

Aggrieved Stakeholder

- Receives action of the 2nd level through the Grievance officer
- If satisfied, the complaint is resolved and recorded accordingly.
- If not satisfied with the decision of the 2nd level or if his/her complaint has not been acted upon within a period of 15 working day and has not received any response from the 2nd level decision maker, the aggrieved stakeholder can forward the complaint, or file an appeal, to the LIAC.

Help/Grievance Desk

- Receive request from the aggrieved stakeholder to elevate his/her complaint to LIAC
- Record the status of the aggrieved stakeholder complaint.

Third Level GRM

Level LIAC

- Receives complaint from the Help/Grievance Desk

- Act and decide on the complaint within 15 working days and inform the decision to the aggrieved stakeholder on the decision accordingly.
- Inform the Help/Grievance Desk the action and/or decision on the aggrieved stakeholder's complaint.

Help/Grievance Desk

- Receive and record decision of LIAC
- Inform to the aggrieved stakeholder.

Aggrieved Stakeholder

- Receives action of the 3rd Level through the Help/Grievance Desk
- If satisfied, the complaint is resolved and recorded accordingly.
- If not satisfied with the decision of the 3rd Level or if his/her complaint has not been acted upon within a period of 15 working day and has not received any response from the 3rd Level, the aggrieved stakeholder can forward the complaint, or file an appeal, to the 4th Level (Court).

Help/Grievance Desk

- Receive request from the aggrieved stakeholder to elevate his/her complaint to the 4th Level.
- Record the status of the aggrieved stakeholder complaint.
- Forward the complaint to the 4th Level within 15 working days from receipt of complaint.

Fourth Level GRM

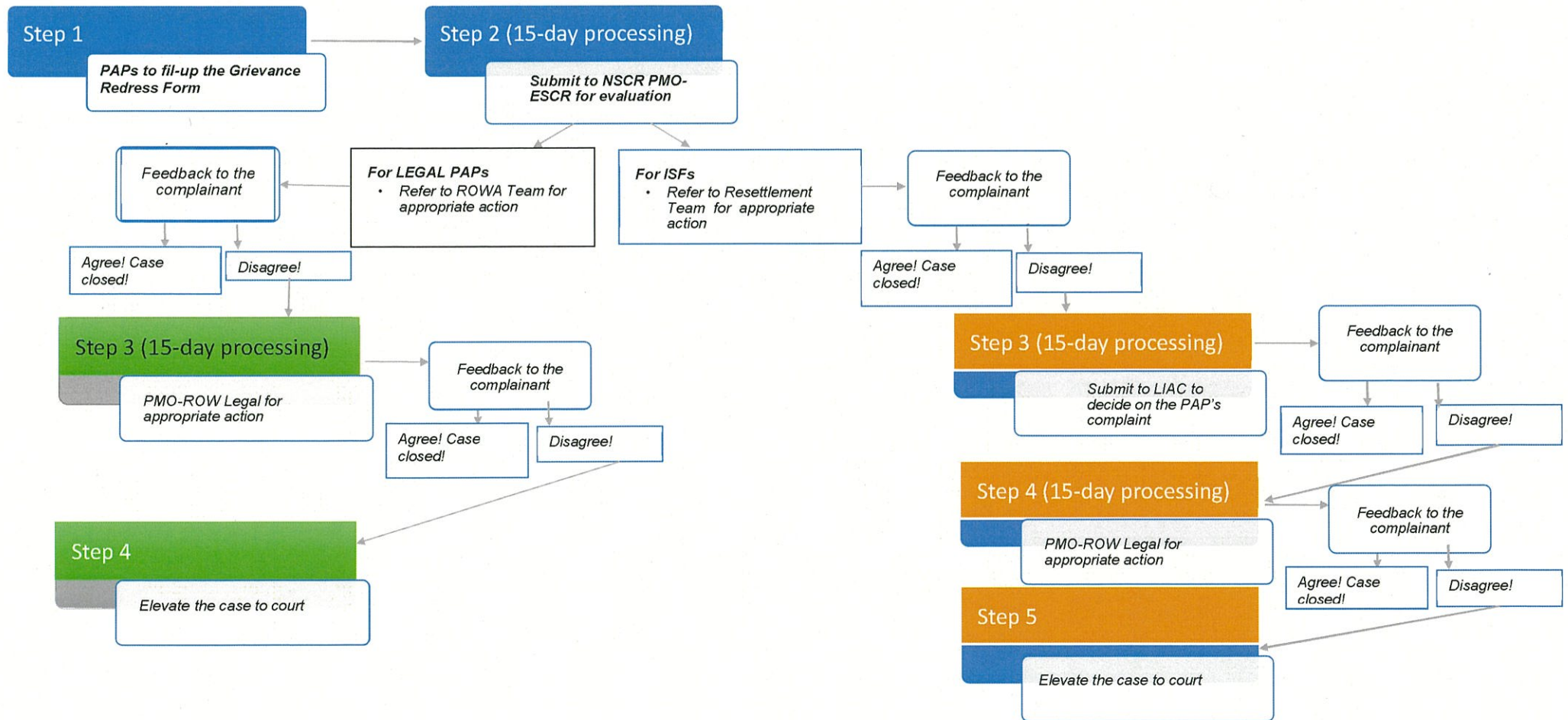
Court

- Receives complaint from aggrieved stakeholder
- Once the complaint is filed in the Court, the judicial procedures

The following Graph indicates the NSCR Project GRM flowchart.

FIGURE 1: NSCR GRM FLOWCHART

GRM FLOWCHART 1.



3. NSCR GRM Performance

3.1 Summary of Accomplishment

The DOTR has received a total of 207 complaints from 137 complainants as of December 2020. The complainants consist of individuals, groups of individuals, peoples' organizations, enterprise, companies, and representatives of local government units, whose property, business, way of living or environment are affected by project activities/components.

Table 1 shows that on the overall, 202 (98%) out of 207 complaints have been acted upon and 144 (69%) of complaints received have been resolved. On the other hand, 63 (30%) of complaints are unresolved as of reporting period. The table shows further that most unresolved complaints are in CPO1 with a total of 47 unresolved complaints as of reporting period while 16 complaints are still unresolved in CPO2.

Details of unresolved complaints are presented in Section 2.3.

TABLE 1: SUMMARY STATUS OF COMPLAINTS ACCORDING TO LOCATION

Location		Number of Complainants	Status of Complaints				Per Cent Unresolved
CP #	City		Received	With Action	Resolved	Unresolved	
CP01	Manila	14	14	14	3	11	79%
	Caloocan	11	11	11	9	2	18%
	Valenzuela	54	54	54	41	13	24%
	Bocaue	17	17	15	10	7	41%
	Meycauayan	60	60	60	46	14	23%
	Marilao	10	10	10	10	0	0%
Subtotal CP01		166	166	164	119	47	28%
CP02	Guiguinto	23	23	22	13	10	43%
	Malolos	12	12	10	9	3	25%
	Balagtas	6	6	6	3	3	50%
Subtotal CP02		41	41	38	25	16	39%
TOTAL		207	207	202	144	63	30%

In terms of complaints according to project activity/component involved, ISF relocation represents the majority of complaints with 64 (31%) of total complaints received, followed by Construction and Land Acquisition, with 50 (24%) and 44(21%), out of 207 complaints received.

As of reporting period, however, about 32 complaints of total complaints received under ISF relocation component remain unsolved, representing half of the unsolved complaints.

Table 2 shows the details.

TABLE 2: STATUS OF COMPLAINTS ACCORDING TO PROJECT ACTIVITY/COMPONENT

Project Activity/Component	Number of Complainants	Status of Complaints					Per Cent Unresolved
		Received	With Action	Resolved	Unresolved		
1 Utilities Relocation	4	4	4	3	1	25%	
2 Land Acquisition	44	44	44	32	12	27%	
3 ISFs Relocation	64	64	64	32	32	50%	
4 Construction	50	50	50	41	9	18%	
5 Geo-Spatial	5	5	3	3	2	40%	
7 Environment	40	40	40	33	7	18%	
Total	207	207	205	144	63	30%	

3.2 Grievances Resolution Factors

The following section summarizes the measures undertaken that facilitated the resolution of the complaints received. In summary, the measures involved through one or combination of: (i) investigation/validation; (ii) collaborative actions with contractors, LGUs concerned; and (iii) coordination with complainants through individual consultations and/or meetings.

3.2.1 Utilities Relocation

- Complaints were resolved through explanation to complainants with the help of Barangay LGUs concerned.

3.2.2 Land Acquisition

- Thorough investigation and walkthrough validation by DOTr together with NSTren and GeoLink
- Provision of markings where requested and necessary
- Meetings and explanations with PAPs
- Endorsement to appropriate group for appropriate explanation/communication

3.2.3 ISF Relocation

- The Beneficiary Selection, Arbitration and Awards Committee (BSAAC) of Manila, Caloocan and Valenzuela were the main actors in the resolution of complaints/requests for qualification for relocation.

3.2.4 Construction

- Immediate action by Contractor, ex, pumping out water) in remedy to flooding in PNR ROW affecting nearby residences
- Provision of medical assistance by Contractor for persons affected by cement seepage during construction

3.2.5 Geo Spatial

- As requested by a subdivision owner/operator in Bocaue, GST verified that the property will not be affected by the project. Based on the results of validation, Geolink issued the certification that the property will not be affected.

- Also in Bocaue, SMCC followed the PNR line in response to the opposition of one individual on the ground that it will encroach his property

3.2.6 Environmental

- The resolution of complaints were done by the Contractors. The process involved joint validation of DOTr, NSTren and contractors.
 - Drainage at ACA road was cleaned by the Contractor to remedy the flooding of nearby residences.
 - Water sprinkler was immediately deployed by the Contractor to prevent excessive dust from CW4
 - In Little Grace Park, Mecauayan, the Contract removed the flood wat in the affected areas and installed water pipes to ease the flooding
 - For the polymer seepage as complained by the LGU of Malolos, SMCC conducted investigation and thereafter assisted the residents in cleaning the area.

3.3. Unresolved Complaints

Unresolved complaints account to the following factors:

- a) For Land Acquisition, there are disagreements on sizes and measurements of areas affected, discontentment on the Offer to Buy and further questions on the value of land despite the application of RA 10752 in the valuation, and fears of being landlocked. . Corresponding actions are ongoing although the pace has slowed down since the implementation of quarantine due to COVID 10.
- b) For the ISF Component, the complaints arise from two sets of ISFs:
 - b.1) ISFs already relocated complain or inquire on the payment of relocation allowances. The project is ready to cause payment but still constrained by the quarantine.
 - b.2) For ISFs to be relocated, complaints are mostly queries on details of relocation (schedule, arrangements), request for support for repair and financial concerns. A few ISFs in CPO2 are to be given rental subsidy while relocation site is being prepared.

Details of the complaints and actions taken as of the report cut off date.

TABLE 3: LIST OF GRIEVANCES

No.	Date of Grievance	Segment	Grievance Handler/s	Grievance raised	Action/s Taken
UTILITIES RELOCATION					
1	8-Aug-2020	Bocaue	Luningning Asuncion Community Relations Manager	the damaged Drainage was caused by the drilling of their encasement causing flood in the community and NSCR alignment. Barangay Binang 2nd also complained about the said damage.	August 8- site inspection of the damaged canal. August 10- coordination with Meralco and Sta Rita regarding the damaged canal. Sta Rita Builder denied that they damaged the canal.
2	24-Apr-2020	Marilao	Karl Joseph Villarina	Pole Location in Marilao (Ibayo) - 34.5kV	Coordination with Brgy. Caption for the proposed wayforward
3	24-Feb-2020	Meycauayan	Karl Joseph Villarina	Tugatog/Rosales (HDD) Work	Coordination meeting with ██████████ to explain the purpose of the relocation works.
4	21-Oct-2019	Marilao	Karl Joseph Villarina	Revoking of Meralco's Permit for the relocation of 115kV Poles	Forwarded to Usec. TJ for his assistance with the DPWH Secretary.
LAND ACQUISITION					
1	5-Jan-2019	Caloocan	Carla Grace Canana	Structure Owner is contesting the survey results of the JDT	Forwarded to Geolink for verification.
2	3-Feb-2020	Valenzuela	Glaysa Parco	Request for whole acquisition of his structure	Re-evaluated to the property together with NSTRen and apply and send reply letter to the request of LO. For serving of new OTB this June 2020 served OTB / waiting for DoAS Batch
3	3-Feb-2020	Valenzuela	Glaysa Parco	Change of affected parcels	Conducted meeting to LO and draft letter informing the LO in the changes of affected areas For serving of the respond letter and new OTB this June 2020 Served OTB for whole acquisition waiting for reply
4	3-Feb-2020	Valenzuela	Glaysa Parco	Change in affected parcels	Conducted meeting to LO and draft letter informing the LO in the changes of affected areas For serving of respond letter and new OTB this June

					2020. Served OTB/waiting for DoAS Batch
5	11-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
6	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
7	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
8	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
9	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
10	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
11	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
12	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted A walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
13	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
14	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
15	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Condiucted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
16	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
17	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
18	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink, and N1 and set a meeting after.
19	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough vallidation with NSTRen, geolink ang N1 team and set a meeting after.
20	12-Nov-2018	Valenzuela	Glaysa Parco	possible landlock	Conducted a walkthrough validation with NSTRen, Geolink and N1 team and set a meeting after.
21	5-Dec-2019	Meycauayan	Michelle de Asis	Asking for a counter-offer on the offer to buy	Endorsed to PMO-Paralegal

22	15-Nov-2019	Meycauayan	Michelle de Asis	Asking for a counter-offer on the offer to buy	Endorsed to PMO-Paralegal
23	1-Nov-2019	Meycauayan	Michelle de Asis	Asking for a counter-offer on the offer to buy	Endorsed to PMO-Paralegal
24	5-Nov-2019	Meycauayan	Michelle de Asis	Asking for whole acquisition of the structure	Endorsed to NSTRen
25	10-Feb-2020	Meycauayan	Michelle de Asis	Establish markings on the affected structures	conducted validation and markings together with Geolink and NSTRen
26		Meycauayan	Michelle de Asis	issues on landlocked & access road	conducted validation and markings together with Geolink and NSTRen
27	5-Jul-2019	Meycauayan	Michelle de Asis	PAPs contesting that there properties are not encroached in PNR properties	Conducted meeting with PAPs; for issuing of "Abiso sa Pagbaklas"
28	3-Feb-2020	Meycauayan	Michelle de Asis	asking for less acquisition of her son's property	endorsed to NSTren to validate if possible
29	4-Mar-2020	Meycauayan	Michelle de Asis	PAPs asked to be acquired the whole property since the remaining is no longer viable for living	letter endorsed to PMO
30	15-Oct-2019	Meycauayan	Michelle de Asis	Late notice that the property will not be paid by DOTr because the property is under CA 141	scheduled for re-issue of Quit claim
31	22-Oct-2018	Meycauayan	Michelle de Asis	No clear Markings for the affected property	Conducted markings with Geolink
32	21-Oct-2018	Meycauayan	Michelle de Asis	No clear Markings for the affected property	Conducted markings with Geolink
33	21-Oct-2018	Meycauayan	Michelle de Asis	No clear Markings for the affected property	Conducted markings with Geolink
34	17-Oct-2018	Meycauayan	Michelle de Asis	Establish Markings inside the affected property	Conducted markings with Geolink
35	6-Aug-2019	Meycauayan	Michelle de Asis	Establish Markings inside the affected property	Conducted markings with Geolink
36	17-Oct-2018	Meycauayan	Michelle de Asis	Establish Markings inside the affected property	Conducted markings with Geolink
37	8-Jan-2019	Meycauayan	Michelle de Asis	Establish Markings inside the affected property	Conducted markings with Geolink
38	8-Jul-2019	Meycauayan	Michelle de Asis	Establish Markings inside the affected property	Conducted markings with Geolink
39	21-Nov-2018	Meycauayan	Michelle de Asis	Establish Markings inside the affected property	Conducted markings with Geolink
40	11-Apr-2019	Guiguinto	Sharon Magat	property of Inchem was entered without permission during clearing activity. Trespassing incident reported by Eduardo Manalo of Inchem	Sub-contractor sent a counter response to the complaint of Inchem which explained actual situation)

41	3-Apr-2019	Guiguinto	Sharon Magat	SLC stressed that they will not sign the OTB unless BCDA case is already settled with DOTr assistance	Informed them during field work, meeting and public consultation that RA 10752 will be complied by DOTr.
42	23-Oct-2019	Guiguinto	Sharon Magat	discrepancy in the drawing v.s actual from 21 to 25sqm	endorsed to GST
43	10-Oct-2019	Guiguinto	Sharon Magat	The value of land was questioned since the classification of lot was already classified as industrial from agricultural.	Discussed with them that the appraised value given by DBP is final based on the actual use and the documents sent. However, they still sent letter sent via company messenger after OTB was served.
44	7-Feb-2020	Malolos	Sharon Magat	Residents of the nearby alignment is requesting for a road access	endorsed to GST
INFORMAL SETTLER FAMILIES RELOCATION					
1	12-May-2020	Manila	Jay	Request for establishment of marking inside the structure	Schedule will depend on the lifting of Quarantine
2	9-Jan-2020	Manila	RT	Structural Integrity	BSAAC Deliberation
3	9-Jan-2020	Manila	RT	Structural Integrity	BSAAC Deliberation
4	9-Jan-2020	Manila	RT	Structural Integrity	BSAAC Deliberation
5	9-Jan-2020	Manila	RT	Structural Integrity	BSAAC Deliberation
6	9-Jan-2020	Manila	RT	Requesting payment	Requested Documentary requirement for payment
7	9-Jan-2020	Manila	RT	Requesting payment	Requested Documentary requirement for payment
8	9-Jan-2020	Manila	Consultant/PE/RT	Marginally affected	Structural Review
9	12-Mar-2020	Caloocan	RT	Identified as under private property and with structural integrity	Included in BSAAC appeal
10	11-Feb-2020	Caloocan	RT	Structural Integrity	Endorsed to ROWA
11	20-Jun-2020	Valenzuela	Maricel	Pending Disbursement of Entitlement	Fasttrack downloading of funds to PNR
12	16-Jun-2020	Valenzuela	Jay	Pending Disbursement of Entitlement	Fasttrack downloading of funds to PNR
13	8-Jun-2020	Valenzuela	Jay	Pending Disbursement of Entitlement	Fasttrack downloading of funds to PNR

14	2-Jun-2020	Valenzuela	Jay	Pending Disbursement of Entitlement	Fasttrack downloading of funds to PNR
15	20-Jun-2020	Valenzuela	Maricel	Pending Disbursement of Entitlement	Fasttrack downloading of funds to PNR
16	16-Jun-2020	Valenzuela	Jay	Pending Disbursement of Entitlement	Fasttrack downloading of funds to PNR
17	8-Jun-2020	Valenzuela	Jay	Pending Disbursement of Entitlement	Fasttrack downloading of funds to PNR
18	2-Jun-2020	Valenzuela	Jay	Pending Disbursement of Entitlement	Fasttrack downloading of funds to PNR
19	7-Mar-2020	Valenzuela	RT	Refuse to relocate	Clear the right of Way
20	25-May-2020	Valenzuela	RT	Previous consumption and connection fee	Coordinated to concern agency
21	12-May-2020	Meycauayan	RT	Contractor infrom ISF to move out	Relocation Site not available
22	16-Jun-2020	Meycauayan	Maricel	When is the relocation Schedule/Request for repair	Insctucted for minor Repair
23	5-May-2020	Meycauayan	RT	DOTr Balik Probinsya Program	No guidelines
24	16-Jun-2020	Meycauayan	Maricel	When is the relocation Schedule/Request for repair	Insctucted for minor Repair
25	26-Feb-2020	Guiguinto	RT	Resntal subsidy is already consumed/ relocation /site not available	Relcoation Site MOA on routing/No additional rental subsidy
26	17-Feb-2020	Guiguinto	RT	Resntal subsidy is already consumed/ relocation /site not available	Relcoation Site MOA on routing/No additional rental subsidy
27	27-Jan-2020	Malolos	RT	With previous awards/land under government property	Skip for constaction
28	16-Mar-2021	Caloocan	ISFR Team	Disbursement of Entitlement	Payment Processed
29	16-Mar-2021	Caloocan	ISFR Team	Disbursement of Entitlement	Payment Processed
30	10-Mar-2021	Caloocan	ISFR Team	Disbursement of Entitlement	Payment Processed
31	5-Mar-2021	Caloocan	ISFR Team	Disbursement of Entitlement	Payment Processed
32	2-Feb-2021	Caloocan	ISFR Team	Disbursement of Entitlement	Payment Processed

33	11-Mar-2021	Caloocan	ISFR Team	Disbursement of Entitlement	Payment Processed
34	20-Jan-2021	Caloocan	ISFR Team	Establishment of Final Markings of ROW	Payment Processed
35	9-Feb-0201	Caloocan	ISFR Team	Establishment of Final Markings of ROW	Payment Processed
36	26-Feb-2021	Valenzuela	ISFR Team	Disbursement of Entitlement	Payment Processed
37	17-Feb-2021	Valenzuela	ISFR Team	Disbursement of Entitlement	Payment Processed
38	19-Mar-2021	Valenzuela	ISFR Team	Disbursement of Entitlement	Payment Processed
39	1-Mar-2021	Valenzuela	ISFR Team	Disbursement of Entitlement	Payment Processed
40	2-Mar-2021	Valenzuela	ISFR Team	Disbursement of Entitlement	Payment Processed
41	16-Mar-2021	Valenzuela	ISFR Team	Disbursement of Entitlement	Payment Processed
42	28-Feb-2021	Valenzuela	ISFR Team	Disbursement of Entitlement	Payment Processed
43	23-Mar-2021	Valenzuela	ISFR Team	Disbursement of Entitlement	Coordination with PNR on the check processing
44	23-Mar-2021	Valenzuela	ISFR Team	Disbursement of Entitlement	Coordination with PNR on the check processing
45	22-Mar-2021	Valenzuela	ISFR Team	Disbursement of Entitlement	Coordination with PNR on the check processing
46	7-Jan-2021	Meycauayan	ISFR Team	Relocation Assistance	Provided Assistance during relocation; PAP already relocated
47	N/A	Meycauayan	ISFR Team	Relocation Assistance	Provided Assistance during relocation; PAP already relocated
48	28-Feb-2021	Guiguinto	ISFR Team	Entitlement Assistance	Cheque waiting to released by PNR
49	2-Mar-2021	Meycauayan	ISFR Team	Entitlement Assistance	Payment Processed
50	2-Mar-2021	Meycauayan	ISFR Team	Entitlement Assistance	Cheque Replacement
51	2-Mar-2021	Guiguinto	ISFR Team	Entitlement Assistance	Payment Processed

52	2-Mar-2021	Guiguinto	ISFR Team	Entitlement Assistance	Payment Processed
53	25-Mar-2021	Guiguinto	ISFR Team	Entitlement Assistance	Coordination with PNR on the check processing
54	19-Mar-2021	Meycauayan	ISFR Team	Entitlement Assistance	Assistance on provision of lacking documents
55	2-Mar-2021	Meycauayan	ISFR Team	Inconvenience Assistance	Assistance on provision of lacking documents
56	2-Mar-2021	Meycauayan	ISFR Team	Inconvenience Assistance	Assistance on provision of lacking documents
57	2-Mar-2021	Meycauayan	ISFR Team	Inconvenience Assistance	Assistance on provision of lacking documents
58	2-Mar-2021	Meycauayan	ISFR Team	Inconvenience Assistance	Assistance on provision of lacking documents
59	24-Feb-2021	Manila	ISFR Team	Disbursement of Entitlement	Payment Processed
60	5-Mar-2021	Manila	ISFR Team	Disbursement of Entitlement	Payment Processed
61	5-Mar-2021	Manila	ISFR Team	Disbursement of Entitlement	Payment Processed
62	23-Mar-2021	Manila	ISFR Team	Disbursement of Entitlement	Coordination with PNR on the check processing
63	23-Mar-2021	Manila	ISFR Team	Disbursement of Entitlement	Coordination with PNR on the check processing
64	23-Mar-2021	Manila	ISFR Team	Disbursement of Entitlement	Coordination with PNR on the check processing
1	5-Oct-2020	Meycauayan	Mr. Allan Mendoza	The stagnant water was allegedly caused by blockage in the open earth canal at the back of Frnacia's residence, facing the PNR alignment. The blockage was due to dumping of filling materials by the subcon Trevi.	TDJV Construction Group was requested to dredge the canal.
2	7-Oct-2020	Bocaue	Ms. Luningning Asuncion	Traffic congestion caused by queuing trucks in Igulot Road	TDJV set a scheduler of activity of haulers to avoid crowding of roads.
3	15-Oct-2020	Meycauayan	Mr. Alex Fernandez	The complainant was tripped on a water hose by a water truck hired by TDJV to clean the road.	PR team verified the incident through [REDACTED] acquiring copy of the blotter report.

4	12-Oct-2020	Meycauayan	Mr. Allan Mendoza	Equipment used in sheet piling causes noise during sleeping hours in the nearby residents.	DMCI Infra committed to limit working hours and minimize noise.
5	16-Oct-2020	Meycauayan	Mr. Allan Mendoza	The complainant reported about the flooding in there are due to narrowed canal in NSCR alignment.	Dumping trucks provided to remove and haul garbage blocking the waterways.
6	16-Oct-2020	Valenzuela	Mr. Sherwin Garcia	██████████ reported about the leaning wall near Malanday Depot, which could cause hazard to operations.	Coordination meeting and site inspection was conducted in order to demolish the leaning wall and put up a fence.
7	3-Nov-2020	Meycauayan	ComRel Team	Residents suspected that the flooding in Libiran St. is caused by NSCR operations on the main line which is perpendicular to the said street.	Investigation was conducted and found out that flooding was not caused by NSCR operation rather it is apparent that the water is coming from somewhere further up ear the entrance of the street along McArthur Highway.
8	3-Nov-2020	Valenzuela	Mr. Allan Mendoza	The vendors were complaining about the flood caused by filling of Aca Road, blocking the drainages and stopping waterflow.	On-going repair of Aca Road and restoration of canal.
9	11-Nov-2020	Valenzuela	Mr. Alex Fernandez ad Mr. Allan Mendoza	TDJV Depot Engineers requested PR team to inform the owners of the leaning wall to seek permission to demolish to prevent hazard to construction workers.	TDJV PR team coordinated with the owner for the schedule of the demolition as long as it shall be replaced by a temporary fence and will rebuild the permanent after the completion of the depot.
10	20-Nov-2020	Meycauayan	Mr. Allan Mendoza	The flooding was caused by the recent typhoons and remained after few days. The residents requested for soil to fill the lower portions of the access.	██████████ of TDJV inspected the area beside NSCR alignment. He coordinated with the construction group for the request of excess soil to fill for Sitio Little Grace Park.
11	2-Dec-2020	Marilao	Mr. John Mendoza	The Medallion Homeonwers Association sent a written complaint about the excavation activity conducted by NSCR near their area which causes the worry to residents due to hazard that the activity might cause to their lives and properties.	The matter was brought to Construction Group's attention for their immediate compliance with the required schedule of operations until 9:00 PM.
12	2-Dec-2020	Bocause	Mr. Sherwin Garcia	Mr. Hizon reported about the flooding in their compound, which was caused allegedly by blocked drainages near NSCR alignment.	TDJV investigated and found out that the canal beside the NSCR alignment was silted and needs to be declogged. This was brought to the attention of in-charge of Bocause Station for immediate action.
13	2-Dec-2020	Bocause	Mr. Ronald Reyes	The complainants reported about the axcavation activity in NSCR Project right behind their fence that caused worry to them. They were afraid of the walls to collapse due to the said activity.	TDJV inspected and verify the complaint. The complaint was relayed to Bocause Station Site ██████████ for immediate and appropriate action.

14	5-Dec-2020	Valenzuela	Mr. John Mendoza	The residents complained about the muddy access due to water coming from NSCR drainage.	The said concern was relayed to [REDACTED] of Construction Group for immediate action.
15	7-Dec-2020	Valenzuela	Mr. Ronald Reyes	[REDACTED] reported about the accident involving motor rider that happened in F. Halili Road due to improper placed steel plate.	Immediate coordination with the Construction Group to remove the steel plates and replace with soil fill.
16	10-Dec-2020	Valenzuela	Mr. Ronald Reyes	The brgy. Captain reported that there was a blotter about 3 road accidents near the NSCR project due to slippery pavements caused by mud.	Immediate dispatch of cleaners in the area.
17	14-Dec-2020	Valenzuela	Ms. Luningning Asuncion	The affected residents of Brgy. Veinte Reales wrote a letter to Mayor Rex Gatchalian to raise the issue on household drainage which might be affected by on-going NSCR activity in Malanday depot. The residents want to meet the NSCR General Contractor and DOTr to discuss the possible provision of drainage for the residents and also the flood control measures.	The DOTr, NSTen and DOTr team attended the meeting with Mayor Gatchalian and the residents. Also, a joint inspection was conducted the following day in Malanday Depot to present the flood control measures and project plans for the drainage.
18	9-Sep-2020	Meycauayan	TDJV/Mr. Sherwin Garcia	The Contractor's working area	On-going
19	27-Aug-2020	Guiguinto	Yvette Catong	Perimeter Wall that is not part of acquisition has leaned and had cracks alleely due to the civil works of SMCC near the structure	None yet
20	18-Aug-2020	Bocaue	ROW / ComRel Team	Residents complained about the lack of access for their water supply and pedestrians	Aug. 18 - Site inspection with Safety and [REDACTED] Aug. 20 - Site inspection with DMCI Infra Aug. 26 - meeting with Bocaue Water District re water connection
21	19-Aug-2020	Marilao	Alex Fernandez (TDJV ComRel Team)	Residents of Brgy Tabing Ilog requested for a pedestrian access and drainage along NSCR alignment	Aug. 18 - site inspection Aug. 20 - meeting with Brgy. Officials and residents Aug. 21 - site inspection, a road access was identified as alternative instead of the pedestrian access along NSCR Aug. 29 - Path walk/access was provided to residents
22	7-Aug-2020	Marilao	Mr. Sherwin Garcia (TDJV Construction/ROW Team)	The newly fenced ROW at Brgy Abangan Norte has blocked the ventilation for fresh air of the residents.	Replace the GI sheets with barbed wires to allow air flow to residents

23	12-May-2020	Meycauayan	TDJV/Luningning Asuncion	Drainages were closed by piles of soil and other materials from the Contractor's clearing and grubbing activities	The Contractor deglogged the drainages.
24	24-Sep-2020	Balagtas	SMCC	Complain of flooding in their house yard with eroded soil from drilling activity	Erosion control and stormwater management
25	29-Sep-2020	Guiguinto	SMCC	Complain of vibration and noise, and claims on damages to house after construction	Contract on review. To discuss with regards to the monetary compensation.
26	8-Oct-2020	Guiguinto	SMCC	Complaint about the damaged interior and exterior wall of one of her apartment presumably affected by vibration during sheet piling works	For Technical Assessment, pending schedule as the person is out of reach.
27	19-Oct-2020	Malolos	SMCC	Complaint about the flooding on their house. Catch basin of the project since elevation of his house is lower than the elevation of the project.	Technical Assessment done. For Approval of Project Manager if we will do the Site Engineer's recommendation.
28	9-Nov-2020	Balagtas	SMCC	Complaint about the breakage of his Aquarium due to high level of vibration (Piling Activity and Road Compaction).	
29	26-Nov-2020	Guiguinto	SMCC	Complaint about the damage on her car due to Poor Housekeeping and stockpiling of soil.	Discussion with the owner.
30	6-Dec-2020	Malolos	SMCC	Concern on tillage from trucks hauling spoil where the roads became muddy and unsafe for vehicle passing.	Closed within acceptable timeline
31	6-Jan-2021	Meycauayan	Allan Mendoza	Stagnant water	January 6- the team responded to the report of TDJV Security, explained to Ms. Magnayon the current status of the NSCR drainages. The MENRO was currently cleaning the drainage upon request of the complainant. Jan 11 - the drainage was cleared.
32	7-Jan-2021	Valenzuela	Luningning Asuncion	Flooding	January 7- PR team inspected the location to verify the activities. Jan 8 - attended the meeting with the Mayor and planned to have a joint inspection Jan 13
33	7-Jan-2021	Marilao	John Mendoza	██████████ requested TDJV to clean part of Saog Road of excessive soil and to put steel plate to cover the potholes beside the road that could pose hazard to motorists	TDJV Environment Section deployed cleaners to remove excessive soil in the area. Steel plate was also put in place.
34	18-Jan-2021	Meycauayan	Alex Fernandez	A complaint was received about the unauthorized dumping in a certain lot owned by ██████████. The alleged lot owner claimed that the area where backfill was dumped was part of their property.	TDJV ROW team inspected the area, upon verification, the question lot is within PNR property.

35	23-Jan-2021	Bocaue	Ronald Reyes	██████████ complained about the excessive mud that covered the Taal Road near NSCR project	January 23- Environment Section deployed sweepers to clean excessive mud in the road.
36	20-Jan-2021	Meycauayan	Allan Mendoza	██████████ requested assistance of TDJV to talk to residents regarding encroachment of structure in CW3 fence, which might pose hazard to workers and the community	Site inspection to verify complaint. On 25 Jan. 2021, residents set back structures to avoid encroaching with the CW3 fence
37	25-Jan-2021	Valenzuela	Aries Espano	██████████ requested TDJV to continue dewatering in Malanday Depot near residences as the pumping out of water stopped in 3 days, which led to stagnant water inside their compound.	January 26- coordination with Malanday depot to resume dewatering activity
38	26-Jan-2021	Valenzuela	Ronald Reyes	The Valenzuela City Traffic Office complained about the dirt brought by the trucks of Trevi Foundation left in McArthur Highway, which could pose hazard to motorists. They issued penalty tickets to the trucks involved.	January 26- meeting with Valenzuela Traffic regarding the good housekeeping of NSCF trucks. It was agreed that the subcontractor shall maintain the cleanliness of its truck before going to highway. Alternate routes for trucks are also being considered. Environment Section issued notice to subcontractor prohibiting them to pass through McArthur Highway due to non-compliance.
39	17-Feb-2021	Meycauayan	Allan Mendoza	██████████ reported about the rising canal water at the back of their residence, which was due to block drainage allegedly caused by NSCR activity	Feb 18- Comrel team verified the complaint and found out that there will be installation of RCP along the NSCR construction drainage, which require to dry out some section by blocking open earth canal. The said blocking will be temporary. ██████████ were informed about the matter.
40	20-Feb-2021	Meycauayan	Sherwin Garcia	██████████ reported the flooding near Singalong due to bored piling activity of subcontractor Trevi. The existing canal which is within NSCR ROW was blocked by bored piling.	Feb 20- ROW and Comrel team immediately inspected the site and requested Primewater to repair the damaged pipeline. Primewater immediately restored the damaged pipe.
41	25-Mar-2021	Meycauayan	Aries Espano	Residents complain about flooding during heavy rainfall	TDJV installed 2 stormwater manholes last 4 Mar 2021 in which the existing drainage canals of LGP was now connected to and installed new stormwater pipelines that outfalls to MacArthur Highway RCBC last 27 Feb 2021. They also installed additional road crossing drainage pipe (RCP) at Bulak Road last 17 Mar 2021. They did dredging and removal of garbages inside the RCBC along MacArthur Highway in front of Meycauayan Station. They also dredged

					the existing waterways along the Meyc. Alignment. Installed additional cross pipes at El Sullera St.
42	3-Mar-2021	Meycauayan	Allan Mendoza	██████████ reported about the flood and dirt caused by the construction of crosspipe in his area. This causes inconvenience and violates local ordinance on dirt in public roads.	██████████ coordinated with construction group to clean the work area and maintain cleanliness during the duration of the activity.
43	11-Mar-2021	Meycauayan	Allan Mendoza	██████████ reported about stagnant water due to blocked drainage in NSCR Alignment	Comrel inspected the area to verify complaint and coordinated with construction group to provide water pump to remove stagnant water.
44	15-Mar-2021	Meycauayan	Sherwin Garcia	██████████ reported about the flooding in Banga-Tugatog Road due to blocked drainages in NSCR Alignment	TDJV ROW team inspected the area, coordinated with construction group to reroute drainage to accommodate waterflow
45	18-Mar-2021	Meycauayan	Allan Mendoza	██████████ reported about leaning wall that could pose hazard to workers.	Site inspection to verify the complaint, talked with building administrator regarding this matter, suggested to formalize request to management. Letter delivered to ██████████, chairman of ██████████ Property last 29 Mar 2021, awaiting for permission.
46	25-Mar-2021	Meycauayan	Aries Espano	Residents complain about flooding during heavy rainfall	TDJV installed 2 stormwater manholes last 4 Mar 2021 in which the existing drainage canals of LGP was now connected to and installed new stormwater pipelines that outfalls to MacArthur Hi-way RCBC last 27 Feb 2021. They also installed additional road crossing drainage pipe (RCP) at Bulak Road last 17 Mar 2021. They did dredging and removal of garbages inside the RCBC along MacArthur hi-way in front of Meycauayan Station. They also dredged the existing waterways along the Meyc. Alignment. Installed additional cross pipes at El Sullera St.
47	4-Mar-2021	Guiguinto	SMCC	Concern regarding the flooding inside garden	SMCC immediately inspected area and communicated with the concerned stakeholder. SMCC had conducted cleaning of existing canal inside ROW and advised also the stakeholder to do maintainance also of the canal inside their vicinity for smooth flow of flood water.

48	22-Mar-2021	Balagtas	SMCC	Contamination of polymer from the water source/ irrigation canal supplying the ricefields and watermelon plantation. The stakeholder may claim for the damaged crops and vegetations due to contamination of polymer.	SMCC removed the polymer from irrigation canal where water from his farm comes from. Any polymer contamination in his farm land is still under assessment and will be removed if applicable. constant communication with the grieving party is being conducted.
49	23-Mar-2021	Malolos	SMCC	The stakeholders is experiencing flood in the area allegedly pointing out the project as the culprit.	Obstruction and Environment Team immediately went to PR7-9 to inspect the area and communicate with the stakeholder upon the receipt of complaint. Concern was rectified by increasing soil bund between the stakeholders house and project site and installation of sumpit connected with HDPE pipe tapped to DPWH drainage canal to prevent stagnation of water. Concern is turned-over to PMO for coordination with DPWH as the flood water is coming from their logged drainage system.
50	27-Mar-2021	Balagtas	SMCC	The community is experiencing noise nuisance and worried on the possible impact of mobilizing heavy equipments in the area such as crane, backhoe and dump truck units.	The stakeholder was communicated for the impacts of noise and vibration and explained that the vibration level during construction although perceptible to humane is not at the level of inducing cracks in plasters. SMCC had conducted Noise Level monitoring inside the residential house of [REDACTED] and installed additional barricade and signages beside the perimeter fence as suggested.
1	9-Jan-2020	Malolos	GST	Encroachment on PNR	Mr. Castor is opposing DOTr's declaration that his structure is encroaching PNR
2	2-Mar-2020	Guiguinto	Contractor	Fencing works by SMCC allegedly encroached the property of Mr. Yu.	Upon checking, the fence did not encroach the property of [REDACTED] and was just following the Northrail Property. Still he's opposing to the fencing works being done by SMCC. SMCC just followed the PNR line to resolve the issue.
3	29-Jan-2020	Bocaue	GST	Eurowing erected a block wall encroaching the PNR Property	Geolink Corp and GE of Eurowing did a joint survey. Geolink Corp. stand firm of the result of their survey. DOTr will just issue an "Abiso ukol sa Pagbabaklas"

4	18-Nov-2019	Malolos	GST	SMCC fenced an area outside PNR Property encroaching the property of [REDACTED]	GST ordered Geolink Corp to survey the fence in relation to PNR Property and found that the fence of SMCC encroached the property of [REDACTED]
5	20-Nov-2019	Bocaue	GST	Nelmac wrote a letter address to Usec. TJ Batan, asking if their subdivision plan is going to be affected by the project. They requested for a certificate.	GST verified if their property will be affected based on the documents they submitted. We forwarded the concern to Geolink Corp. upon verifying that they are not affected. Geolink Corp. issued a certification
1	28-Aug-2020	Guiguinto	Mr. Albert Villaflor	Yongden company raised concern on their wall leaning towards the project ROW and worried that it might fall.	GRM team immediately responded by installing a support for the wall in order to reinforce and do not agitate the wall during construction activities. Concerns for future vibrations during operations was cascaded to PMO.
2	15-Aug-2020	Guiguinto	RJ Barraca	In the dawn of 13 August 2020 the resident of the apartment immediate to PR6-77 noticed that his cabinet was knocked from the wall is was attached to.	The area was assessed and the site engineer immediately assessed repaired and re-assessed for other damages that might occurred in the future. The stakeholder acknowledged the response provided by SMCC.
3	17-Aug-2020	Meycauayan	Mr. Allan Mendoza	[REDACTED] complained about the flood in Mc Arthur Highway attributed to the haulers of NSCR. Also, he complained about the potholes which were allegedly caused by the trucks passing the area	August 17- Com Rel team verified the complaint, there were no flooding in the area. The potholes were on the other side of the road, which is probably not caused by the NSCR truck but by usual wear and tear due to road repairs.
4	14-Aug-2020	Bocaue	Alex Fernandez ROW Officer	The complainant reported the stagnant water caused by the embankment in NSCR ROW in his property along F. Halili St., Bocaue. He also reported that the NSCR road cleaners dump the dirt toward the drainages which might cause blockages.	August 18- meeting with [REDACTED]
5	14-Aug-2020	Bocaue	Luningning Asuncion Community Relations Manager	the soil and mud brought by haulers of NSCR in various roads in Bocaue have caused accidents involving LGU -Bocaue Employees. The complainant also offered their firetruck to help in cleaning the dirt.	August 14- Meeting with Municipal Administrator to resolve the complaint. August 25- watertrucks and cleaners were deployed in Igulot Road to remove excess soil and mud
6	4-Aug-2020	Meycauayan	Luningning Asuncion Community Relations Manager	The NSCR embankment blocked a natural waterway of Pandayan Creek 1 near lapidahan which obstructed waterflow. The TDJV installed RCP instead of a box culvert, which is more	TDJV installed RCP to accommodate waterflow. Future amendment of the design will be implemented to include box culvert.

				effective in facilitating waterflow. Cong Villarica raised this issue during a meeting	
7	4-Aug-2020	Meycauayan	Luningning Asuncion Community Relations Manager	The delivery trucks of TDJV are carrying soil from CW3 that resulted to muddy road in Mc Arthur Hiway.	Water trucks and sweepers were deployed in the said area to remove excessive soil and mud in the road.
8	1-Aug-2020	Bocaue	Aidenn Ranas Environmental Manager	Delivery trucks at the NSCR ROW were causing excessive mud at the Brgy Bunducan Road, which allegedly affected motorists, compounded by the strong rains during that time. Three motorcycles slid due to the mud as per report	The TDJV Environment Department deployed a water truck to clean the road, deliveries were also stopped to minimize mudding in the area.
9	9-Jul-2020	Meycauayan	Luningning Asuncion Community Relations Manager	the continuous rain in June caused flooding in the said area, which stagnated for several days. There were seven structures affected, and the mother of complainant (Castro), a senior citizen, was worried about the said flooding. The residents were also concerned about the health and safety hazards brought by the stagnant water in their vicinity. Note: the area was also flooded in May 2020 due to rain.	July 6- dredging activity started in the said area to remove blockages in waterways
10	24-Jul-2020	Meycauayan	Mr. Allan Mendoza	DoTR forwarded a complaint from ██████████ regarding the alleged excessive vibration caused by construction activities near their residence.	July 24- the COMREL and ROW team verified the complaint of ██████████. It was found out that their residence is one of the affected by land acquisition of DOTR. No bored piling activities have started near their area except for some trucks passing by. The complaint is requested to be forwarded to DoTR for immediate action on ROW and land acquisition.
11	22-Jul-2020	Bocaue	Mr. Allan Mendoza	The bored piling and extraction work produce vibration that was felt by the complainant. Their residence is affected by the right of way acquisition by DOTR as they are near the pier to be constructed	July 22- ComRel team visited the complainant to verify her concern. She raised the issue of possible damages of their house due to excessive vibration. She also said that their house was one of the affected by the land acquisition by DOTR. DoTr already spoke with her about providing monthly rental fee but they rejected it since they are waiting for the compensation/ relocation. Until now, DOTR haven't provided them any compensation.

12	17-Jul-2020	Bocau	Luningning Asuncion	construction activities in NSCR alignment have brought excessive dirt and dust in the paved road of Ayukit Street,	July 17- PR team inspected the said area to verify the complaints
13	17-Jul-2020	Bocau	Luningning Asuncion	██████████ complained about the damages in their wall caused by vibrations brought by bored piling activities. Their wall was just facing the NSCR alignment, where the Bocau station will be constructed. The Right of Way issues have also been brought out by other residents.	July 17- Joint inspection by PR team, DoTr, NSTren, and ██████████ on affected residences. Aside from ██████████ residence, five other residences with damaged structures were inspected. DoTr said only 2 houses will be affected by land acquisition.
14	2-Jul-2020	Meycauayan	ROW Team	The flooding was caused by back-filling of NSCR between PR 3-59 and PR 3-65, clogging RCPs near the depot leading to creek beside	July 2- meeting with Brgy Capt and site inspection. The said concern was brought to the Construction group for immediate action (de-clogging of RCPs) July 7- De- clogging activity started
15	18-Feb-2020	Valenzuela	Aidenn Ranas Environmental Manager	Excessive dust flown from the CW4	Water sprinkler was deployed immediately in the area
16	27-Jan-2020	Valenzuela	Christopher Abrazaldo Senior Engineer	Flooding at ACA Road, Malanday Depot Access Road, and in nearby residences of Kadiwa due to filling of materials at embankment in Malanday Depot	The drainage was cleaned for continuous flow of water
17	14-May-2020	Meycauayan	Don Liwag DMCI-Bridge Construction Manager	Flooding at Sitio Little Grace Park, Brgy. Malhacan due to the heavy rainfall brought by Typhoon Ambo.	Floodwater was pumped out and reinforced concrete pipes were installed to flash out flood water
18	13-May-2020	Meycauayan	Mr. Rodel Elano Construction Manager	Flooding at Brgy. Bancal (area near NSCR Valenzuela Depot) due to the heavy rainfall	The floodwater was pumped out of the area
19	7-Feb-2020	Meycauayan	Luningning Asuncion	Embankment of PNR ROW blocked the drainage canals which caused flooding at the nearby residential area at Interior Little Grace Park, Malhacan, Meycauayan City due to heavy rain	Floodwater was removed in the affected areas and water pipes were installed to ease the flooding
20	2-Jun-2020	Meycauayan	Engr. Lito Topacio	Flooding at Little Grace Park, Malhaca, Meycauayan due to the construction of temporary facilities of contractors that blocked the natural water flow.	Natural waterways were temporarily opened until a permanent drainage system is installed
21	9-Mar-2020	Bocau	Alex Fernandez ROW Officer	Parts of cut trees (Camachile and Aratiles) were found along Igulot River	Parts of cut trees were removed in the river

22	9-Mar-2020	Bocaue	Alex Fernandez ROW Officer	Water flow in RCBC was blocked due to the embankment	The drainage canal at both sides of the alignment. Installation of reinforced concrete is ongoing
23	10-Jan-2020	Guiguinto	Elmer Buban	Noise and vibration	Upon receipt of complaint, the activity was stopped. Safety officer, ██████████, asked for the assistance of the barangay and went to the house of the complainant to ask for his concerns
24	17-Jan-2020	Guiguinto	-	Complaint about noise and cracks on the walls caused by the construction of NSCR-CP02 project	NSCR N1 PMO forwarded the complaint received from the Office of the President to the concerned contractor (SMCC)
25	28-Feb-2020	Malolos	Ydette Catong	Medical attention	Abrasion and contusions from an incident where the complainant traversed a street on his way back home, who happens to step on a road hump, slipped and lost his balance which caused him to fall on the street. The complainant was attended by SMCC nurse and physician.
26	N.A.	Malolos	Ydette Catong	Medical attention	Abrasion and contusions from an skidding/slipping incident on 20 February 2020 while cleaning parts of the house affected by viscous fluid (the complainant claimed to be from construction site) was attended by the SMCC nurse and physician.
27	27-Feb-2020	Malolos	Ydette Catong	Polymer seepage	SMCC investigated the incident right after they received a call from City Planning & Development Office. Residents cleaned some areas through water spray, and SMCC assisted in cleaning all affected areas.
28	14-Dec-2020	Valenzuela	Aries Espano	Dumping of garbage in the drainage of ACA Road	December 14- PR team inspected the area to verify the concern and seek help with Brgy. Malanday to help clean the area. Dec 19 - Clean and green team was dispatched.
29	15-Dec-2020	Marilao	John Mendoza	The residents near the NSCR Project complained about the excessive dust accumulated in M. Villarica which was due to dump trucks of DPS plying on the said road.	Environment Section has deployed water trucks and cleaners to remove excess soil in the said road.
30	14-Jan-2021	Marilao	John Mendoza	██████████ reported the complaint from residents of Medallion Homes regarding noise due	January 15- Coordination with Construction team regarding schedule of operations. The construction was advised to limit the operation until 9:00 PM as

				to activity in NSCR, specifically using jackhammer.	agreed in the kasunduan with residents of medallion homes
31	4-Feb-2021	Valenzuela	Ronald Reyes	██████████ reported a complaint from certain ██████████ about complaint against noise due to NSCR activities even in late evening which causes disturbance in sleep of their grandmother	February 04- PR Team and Environment section verified the location of the complainant. Their residence is near the NSCR alignment. The said matter was referred to construction group to remind subcontractors to observe working schedule in populated areas.
32	16-Feb-2021	Bocaue	Aries Espano	██████████ complained about the noise and vibration caused by NSCR even beyond 10 PM, disturbing their sleep at night	February 16- requested Environment Section to advise subcontractors to observe work schedule at night.
33	18-Feb-2021	Valenzuela	Aries Espano	Some residents of Villa Esperanza Homes complained about the noise and vibration allegedly caused by NSCR activity	Feb 20- PR team verified the complaint. Requested Construction Group to provide schedule of works in Valenzuela area to inform barangays
34	4-Mar-2021	Guiguinto		Concern regarding the flooding inside garden	SMCC immediately inspected area and communicated with the concerned stakeholder. SMCC had conducted cleaning of existing canal inside ROW and advised also the stakeholder to do maintainance also of the canal inside their vicinity for smooth flow of flood water.
35	22-Mar-2021	Balagtas		Contamination of polymer from the water source/ irrigation canal supplying the ricefields and watermelon plantation. The stakeholder may claim for the damaged crops and vegetations due to contamination of polymer.	SMCC removed the polymer from irrigation canal where water from his farm comes from. Any polymer contamination in his farm land is still under assessment and will be removed if applicable. constant communication with the grieving party is being conducted
36	23-Mar-2021	Malolos		The stakeholders is experiencing flood in the area allegedly pointing out the project as the culprit.	Obstruction and Environment Team immediately went to PR7-9 to inspect the area and communicate with the stakeholder upon the receipt of complaint. Concern was rectified by increasing soil bund between the stakeholders house and project site and installation of sumpit connected with HDPE pipe tapped to DPWH drainage canal to prevent stagnation of water. Concern is turned-over to PMO for coordination with DPWH as the flood water is coming from their clogged drainage system.
37	27-Mar-2021	Balagtas		The community is experiencing noise nuisance and worried on the possible impact of mobilizing	The stakeholder was communicated for the impacts of noise and vibration and explained that the

				heavy equipments in the area such as crane, backhoe and dump truck units.	vibration level during construction although perceptible to humane is not at the level of inducing cracks in plasters. SMCC had conducted Noise Level monitoring inside the residential house of [REDACTED] and installed additional barricade and signages beside the perimeter fence as suggested.
38	N.A.	Malolos	Ydette Catong	Medical attention	Abrasion and contusions from an skidding/slipping incident on 20 February 2020 while cleaning parts of the house affected by viscous fluid (the complainant claimed to be from construction site) was attended by the SMCC nurse and physician.
39	23-Mar-2021	Marilao	John Mendoza	Mayor Silvestre complained about the garbage trapped by temporary bridge in Brgy. Tabing Ilog which caused negative comments in social media	March 23 - TDJV meeting with Mayor Silvestre, it was agreed to scoop the garbage near temporary bridge then dry it out nearby before disposal by LGU. On March 24, TDJV Construction team scooped the garbage from the river
40	26-Mar-2021	Marilao	John Mendoza	Mayor Silvestre requested assistance of TDJV to remove the garbage collected from Marilao River. Residents complained about the foul odor from garbage being dried out in NSCR Alignment	march 27 - TDJV Construction group deployed backhoe to scoop the garbage to dump trucks of Marilao LGU

**Environmental Monitoring Form
North-South Commuter Railway (Malolos – Tutuban) Project**

1. General Information

a. Environmental Monitoring Results: 1st Quarter of 2021

b. Date of Preparing This form 30 April 2021

c. Person Preparing This form Environmental Considerations Unit
Department/Organizations: North-South Commuter Railway (Malolos – Tutuban) Project

2. Monitoring Results - Construction Phase

(1) Impact on Land

No.	Potential Impact	Parameter	Method	Frequency	Location	Standard	Latest Monitoring Result in 1 st quarter of 2021	
							Result	Monitoring Date
1	Soil contamination due to oil and lubricant spill	Oil spill	Ocular inspection	Weekly, immediately after spills	All construction sites (Malolos, Guiguinto, Balagtas, Bocaue, Meycauayan and Valenzuela City)	N.A.	Small spills were observed near/adjacent the mechanical equipment in Valenzuela (Annex A).	20 January 2021 ¹
2	Worker and community exposure to health and safety hazards due to working in areas with the excavation of such soils	Proper removal and disposal of excavated soil from RAMCAR battery site	Compliance to RA 9003, RA 6969 and DAO 2013-22	N.A.	RAMCAR battery site	Environmental Standard for Soil Pollution (Japan): 150 mg/kg Dutch Standards of References Values for Soil: 85 mg/kg German Federal Soil Protection and Contaminated Site	A special permit to transport soil contaminated with lead (Pb) was issued by DENR-EMB Region 3 to Clean Leaf International Corporation (CLIC) ² on 26 January 2021. As of date, approximately 1,170 cu.m. were properly transported to the Treatment, Storage and Disposal (TSD) facility of CLIC.	Excavation and Transport Dates: 23 February 2021 to 10 March 2021

¹ Note: Due to Covid-19 pandemic, ocular inspections were limited. Ocular inspections in February and March 2021 were conducted remotely.

² A DENR-accredited Treatment, Storage and Disposal (TSD) Facility

						Ordinance: 200 mg/kg DAO 2013-22: <1 mg/L	The Method Statement and Waste Management Plan was implemented to ensure the proper handling/transport, treatment and disposal of the contaminated soil, and to ensure the safety of the workers. See Annex B	
3	Generation of solid waste; land and water contamination; aesthetic impacts; spread of diseases	Proper waste management and disposal	Checking compliance with RA 9003 and RA 6969	Weekly	All construction sites (Malolos, Guiguinto, Balagtas, Bocaue, Meycauayan and Valenzuela City)	N.A.	Solid Waste Management (1) Appropriate and color coded (recyclables - red; non-recyclables/residual - blue, biodegradable - green and special waste/household healthcare waste - yellow) waste bins with cover and label were provided in active construction sites. (2) The recyclables were segregated from residuals. The residual wastes are being collected by the LGUs and disposed to the disposal facility. (3) Some recovered waste materials were being recycled and reuse on site. Some were sold to junkshops or given to waste collectors (4) In response to COVID-19 pandemic, particularly disposal mask/ gloves and tissues were directly stored and disposed in a separate waste bag/ bins (yellow). Bags/ bins were disinfected by spraying a	N.A.

							<p>diluted bleach solution (1 tablespoon of bleach to 1.5 liters of water) and labelled "potential infectious waste" before disposal to reduce the risk of contamination to the waste collectors.</p> <ul style="list-style-type: none"> - Solid Waste Generated: 47.322 tons/quarter - Solid Waste Recycled: 2.48 tons/quarter - Solid Waste Diverted to Animal Feeds: 0.842 tons/quarter - Collected Residual Wastes: 43.43 tons/quarter <p>Hazardous Waste Management</p> <p>The hazardous wastes were stored in separate containers, according to its classification, at the subcontractor's temporary storage facility which are either banded or provided secondary containment.</p> <p>Hazardous Waste Generated for the Quarter:</p> <ul style="list-style-type: none"> - Busted Fluorescent: 0.032 ton - LED Bulb: 0.002 ton - Used Batteries: 0.376 ton - Used Oil: 9.65 tons - Oil Contaminated wastes: 0.024 ton - Empty chemical containers: 0.034 ton 	
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							<p>- Pathological Waste: 0.02 ton</p> <p>Grey water disposal and treatment</p> <p>Septic tanks, sanitation facilities and portalets were available within construction areas. Weekly siphoning of portalets were conducted for liquid wastes.</p> <p>See Annex C.</p>	
4	Ground subsidence	Level of ground subsidence	Measurement of level	Monthly	Valenzuela Depot	N.A.	N.A.	N.A.
5	Removal of Narra trees along with alignment from Caloocan to Tutuban and at Valenzuela depot, and other trees	<ol style="list-style-type: none"> 1. Number of trees cut 2. Number of trees replaced 3. The survival rate of species introduced 4. Provision of the corresponding number of tree seedlings 	Ocular inspection	Monthly	Designated tree planting site and/or reforestation area designated by DENR-EMB National Capital Region (NCR)	85-90% survival rate of trees planted as prescribed by DENR-EMB NCR	<p>A validation of the survival of planted seedlings were conducted together with representatives of DENR-Region 3, DENR-CENRO Guiguinto and DENR-NCR.</p> <p>NGP Site in Mt. Balagbag Norzagaray, Bulacan: 52,150 seedlings</p> <p>La Mesa Watershed Reservation: 8,000 seedlings</p> <p>NGP Site in Mt. Balagbag Norzagaray, Bulacan: 70,900 seedlings</p> <p>Validation survey report will be submitted once available.</p> <p>See Annex D.</p>	<p>23-24 February 2021</p> <p>04 March 2021</p> <p>10-11 March 2021</p>
6	Loss of small swampy area used for migratory and resident birds due to development of depot	Seasonal bird count	Ocular Survey	Annually	Adjacent offset wetland of Valenzuela depot	N.A.	Bird count at the offset wetland (Tanza Marine Tree Park) are not yet conducted. The Memorandum of Agreement between DOTr and	N.A.

							DENR-National Capital Region (NCR), and Work and Financial Plan (WFP) for the conservation of TMTP, as part of the NSCR offset wetland management project, is currently being finalized. Bird count will be conducted once TMTP management project is implemented.	
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(2) Impact on Water

No.	Potential Impact	Parameter	Method	Frequency	Location	Standard	Baseline		Latest Monitoring Result in 1 st quarter of 2021	
							Feasibility Study Phase (2013)	Pre-construction Phase (2019)	Result (Annex E)	Monitoring Date
1	Increase in suspended solid of receiving water/ pollution of receiving water bodies	1. pH 2. DO 3. Oil & Grease 4. BOD 5. Fecal 6. TSS	Water sampling (DAO 34-1990), DENR-EMB Manual for Ambient Water Quality Monitoring Volume I (2008), and Water Quality Guidelines and General Effluent Standards of (DAO 2016-08)	Quarterly	1. Guiguinto River 14.830339 N; 120.878609 E	For Class "C" freshwater ³ : 1. pH: 6.5 to 9.0 2. DO: 5.0 mg/L 3. Oil & Grease: 2.0 mg/L 4. BOD: 7.0 mg/L 5. Fecal Coliform: 200 MPN/100mL 6. TSS: 80 mg/L	Guiguinto River 1. pH: 8.8 2. DO: 2.3 mg/L 3. Oil & Grease: 0.8 mg/L 4. BOD: 12 mg/L 5. Fecal Coliform: 44 MPN/100mL 6. TSS: N.A.	Guiguinto River 1. pH: 7.43 2. DO: ND 3. Oil & Grease: ND 4. BOD: 3.26 mg/L 5. Fecal Coliform: 4.9x10 ³ MPN/100mL 6. TSS: 8.6 mg/L	Guiguinto River ⁴ 1. pH: 7.46 2. DO: 0.920 mg/L 3. Oil & Grease: ND 4. BOD: 28.9 mg/L 5. Fecal Coliform: 7.9x10 ³ MPN/100mL 6. TSS: 6.6 mg/L	Guiguinto River: 16 February 2021
					2. Santol (Balagtas) River 14.818506 N; 120.913071 E		Santol (Balagtas) River 1. pH: 7.6 2. DO: 4.5 mg/L 3. Oil & Grease: 0.6 mg/L 4. BOD: 2 mg/L 5. Fecal Coliform: 1.3x10 ⁴ MPN/100mL 6. TSS: 8.8 mg/L	Santol (Balagtas) River 1. pH: 7.63 2. DO: 2.39 mg/L 3. Oil & Grease: ND 4. BOD: 8.01 mg/L 5. Fecal Coliform: 3.5x10 ³ MPN/100mL 6. TSS: 26.3 mg/L	Santol (Balagtas) River: 1. pH: 7.44 2. DO: 1.73 mg/L 3. Oil & Grease: ND 4. BOD: 29.5 mg/L 5. Fecal Coliform: 1.3x10 ⁴ MPN/100mL 6. TSS: 58.8 mg/L	Santol (Balagtas) River: 16 February 2021
					3. Bocaue River 14.80575 N; 120.9268 E		Bocaue River: 1. pH: 7.9 2. DO: 8.2 mg/L 3. Oil & Grease: 0.7 mg/L 4. BOD: 4 mg/L 5. Fecal Coliform: 3.5x10 ⁴ MPN/100mL 6. TSS: 44 mg/L	Bocaue River: 1. pH: 7.4 2. DO: 7.2 mg/L 3. Oil & Grease: 3 mg/L 4. BOD: 12 mg/L 5. Fecal Coliform: 3.3x10 ⁴ MPN/100mL 6. TSS: 46 mg/L	Bocaue River: 1. pH: 7.24 2. DO: 9.27 mg/L 3. Oil & Grease: 9 mg/L 4. BOD: 48 mg/L 5. Fecal Coliform: 4.9x10 ⁵ MPN/100mL 6. TSS: 13 mg/L	Bocaue River: 24 February 2021

³ DAO 2016-08: Water Quality Guidelines and Effluent Standards of 2016

⁴See Annex F for the 4th Quarter Water Quality Monitoring for Guiguinto and Balagtas Rivers.

				4. Marilao River 14.76135 N; 120.9507 E	Marilao River: 1. pH: 7.8 2. DO: 7.1 mg/L 3. Oil & Grease: 0.8 mg/L 4. BOD: 8 mg/L 5. Fecal Coliform: 3.5x10 ⁴ MPN/100mL 6. TSS: 36 mg/L	Marilao River: 1. pH: 7.6 2. DO: 7 mg/L 3. Oil & Grease: <1 mg/L 4. BOD: 18 mg/L 5. Fecal Coliform: 3.1x10 ⁵ MPN/100mL 6. TSS: 17 mg/L	Marilao River: 1. pH: 7.34 2. DO: 5.10 mg/L 3. Oil & Grease: 3 mg/L 4. BOD: 86 mg/L 5. Fecal Coliform: 1.1x10 ⁶ MPN/100mL 6. TSS: 23 mg/L	Marilao River: 24 February 2021
				5. Meycauayan River 14.73063 N; 120.9644 E	Meycauayan River: 1. pH: 7.4 2. DO: <2.0 mg/L 3. Oil & Grease: 0.6 mg/L 4. BOD: 9 mg/L 5. Fecal Coliform: N.A. 6. TSS: 17 mg/L	Meycauayan River: 1. pH: 7.5 2. DO: 6.8 mg/L 3. Oil & Grease: <1 mg/L 4. BOD: 25 mg/L 5. Fecal Coliform: 1.3x10 ⁶ MPN/100mL 6. TSS: 33 mg/L	Meycauayan River: 1. pH: 6.86 2. DO: 7.33 mg/L 3. Oil & Grease: 4 mg/L 4. BOD: 493 mg/L 5. Fecal Coliform: 2.3x10 ⁵ MPN/100mL 6. TSS: 30 mg/L	Meycauayan River: 24 February 2021
				6. Valenzuela Depot 14.713699 N; 120.961019 E	Valenzuela Depot: 1. pH: 6.6 2. DO: <2.0 mg/L 3. Oil & Grease: 0.7 mg/L 4. BOD: 55 mg/L 5. Fecal Coliform: N.A. 6. TSS: 9 mg/L	Valenzuela Depot: 1. pH: 7.6 2. DO: 4.2 mg/L 3. Oil & Grease: 2 mg/L 4. BOD: 65 mg/L 5. Fecal Coliform: 4.9x10 ⁵ MPN/100mL 6. TSS: 9 mg/L	Valenzuela Depot: 1. pH: 7.50 2. DO: 6.53 mg/L 3. Oil & Grease: 1 mg/L 4. BOD: 534 mg/L 5. Fecal Coliform: 7.9x10 ⁵ MPN/100mL 6. TSS: 32 mg/L	Valenzuela Depot: 24 February 2021
				7. Tullahan River 14°40.672'N 120°58.315'E	Tullahan River ⁵ - N.A.	Tullahan River - N.A.	Tullahan River - N.A.	Tullahan River: N.A.
				8. Estero de Maypajo 14°38.113'N 120°58.6'E	Estero de Maypajo - N.A.	Estero de Maypajo - N.A.	Estero de Maypajo - N.A.	Estero de Maypajo: N.A.

⁵ Water quality monitoring was not conducted at Tullahan River, and Estero de Maypajo since Section1 of Contract Package 01 is not yet handed over to the contractor.

(3) Impact on Air

No.	Potential Impact	Parameter	Method	Frequency	Location ⁶	Standard	Baseline		Latest Monitoring Result in 1 st quarter of 2021		
							Feasibility Study Phase ⁷	Pre-construction Phase (2019)	Result ⁸⁹ (Annex F)	Monitoring Date	
1	Generation of dust and particulate matter, and gas emissions.	1. TSP 2. PM _{2.5} 3. PM ₁₀ 4. NO ₂ 5. SO ₂	Clean Air Act of 1999 (RA 8749) 1. TSP: High Volume Gravimetric Method 2. PM _{2.5} : High Volume w/2.5-micron particle size inlet, Gravimetric 3. PM ₁₀ : High Volume w/10-micron particle-size inlet, Gravimetric 4. SO ₂ : Pararosaniline Method 5. NO ₂ : Griess Saltzman	Quarterly, immediately based on complaints	1. Malolos 14°51'14.53"N 120°48'50.96"E	National Ambient Air Quality Guideline Values (NAAQGV) 24-Hr Monitoring: 1. TSP: 230 µg/Ncm 2. PM _{2.5} : 50 µg/Ncm ¹⁰ 3. PM ₁₀ : 150 µg/Ncm 4. SO ₂ : 180 µg/Ncm 1. NO ₂ : 150 µg/Ncm	24-Hr Monitoring: Malolos (2012): 1. TSP: 95 mg/Ncm 2. PM _{2.5} : N.A. 3. PM ₁₀ : 61.8 mg/Ncm 4. NO ₂ : 3.093 mg/Ncm 5. SO ₂ : <0.05 mg/Ncm	24-Hr Monitoring: Malolos: 1. TSP: 297 mg/Ncm 2. PM _{2.5} : 94.1 mg/Ncm 3. PM ₁₀ : 198 mg/Ncm 4. NO ₂ : 18.9 mg/Ncm 5. SO ₂ : <25.5 mg/Ncm	24-Hr Monitoring: Malolos: 1. TSP: 367 mg/Ncm 2. PM _{2.5} : 119 mg/Ncm 3. PM ₁₀ : 114 mg/Ncm 4. NO ₂ : 9.73 mg/Ncm 5. SO ₂ : <11.7 mg/Ncm	24-Hr Monitoring: Malolos: 17-18 February 2021	
					2. Guiguinto 14°49'31.06"N 120°54'21.05"E		National Ambient Air Quality for Source-Specific Air Pollutants from Industrial Sources / Operations 1-Hr Monitoring: 2. TSP: 300 µg/Ncm 3. PM _{2.5} : N.A. 4. PM ₁₀ : 200 µg/Ncm 5. SO ₂ : 340 µg/Ncm 6. NO ₂ : 260 µg/Ncm	24-Hr Monitoring: Guiguinto (2013): 1. TSP: 20.20 mg/Ncm 2. PM _{2.5} : N.A. 3. PM ₁₀ : 26.83 mg/Ncm 4. NO ₂ : 8.67 mg/Ncm 5. SO ₂ : 3.68 mg/Ncm	24-Hr Monitoring: Guiguinto: 1. TSP: 188 mg/Ncm 2. PM _{2.5} : <47.2 mg/Ncm 3. PM ₁₀ : 187 mg/Ncm 4. NO ₂ : 11.3 mg/Ncm 5. SO ₂ : <25.5 mg/Ncm	24-Hr Monitoring: Guiguinto and Malolos Boundary: 1. TSP: 240 mg/Ncm 2. PM _{2.5} : 116 mg/Ncm 3. PM ₁₀ : 95.6 mg/Ncm 4. NO ₂ : 9.49 mg/Ncm 5. SO ₂ : <11.7 mg/Ncm	24-Hr Monitoring: Guiguinto and Malolos Boundary: 18-19 February 2021
					3. Balagtas 14°50'21.90"N 120°51'31.28"E			24-Hr Monitoring: Balagtas: N.A.	24-Hr Monitoring: Balagtas: 1. TSP: 271 mg/Ncm 2. PM _{2.5} : 67.9 mg/Ncm 3. PM ₁₀ : 189 mg/Ncm 4. NO ₂ : 19.7 mg/Ncm 5. SO ₂ : 25.7 mg/Ncm	24-Hr Monitoring: Balagtas: 1. TSP: 128 mg/Ncm 2. PM _{2.5} : 44.6 mg/Ncm 3. PM ₁₀ : 79.0 mg/Ncm 4. NO ₂ : 9.46 mg/Ncm 5. SO ₂ : <11.7 mg/Ncm	24-Hr Monitoring: Balagtas: 16-17 February 2021
					4. Bocaue 14°48'2"N 120°55'53"E			24-Hr Monitoring: Bocaue (2012): 1. TSP: 133 mg/Ncm 2. PM _{2.5} : N.A. 3. PM ₁₀ : 67.9 mg/Ncm	24-Hr Monitoring: Bocaue: 1. TSP: 98.8 mg/Ncm 2. PM _{2.5} : 17.3 mg/Ncm 3. PM ₁₀ : 43.8 mg/Ncm	24-Hr Monitoring: Bocaue: 1. TSP: 126.93 mg/Ncm 2. PM _{2.5} : 33.52 mg/Ncm 3. PM ₁₀ : 55.70 mg/Ncm	24-Hr Monitoring: Bocaue: 25-26 February 2021

⁶ Indicates the location of the 2021 1st quarter air quality monitoring station.

⁷ Source: NSCR EPRMP, March 2015

⁸ Ambient air quality monitoring was not conducted in Caloocan, Manila, Solis and Tutuban stations since Section 1 of Contract Package 01 is not yet handed over to the contractor.

⁹ Dust mitigation measures are presented in Annex G.

¹⁰ DAO 2013-13 – Establishing the Provisional National Ambient Air Quality Guideline Values for Particulate Matter 2.5 (PM_{2.5})

			Reaction		<p>4. NO₂: 2.7 mg/Ncm 5. SO₂: <0.05 mg/Ncm</p> <p>1. TSP: 145 mg/Ncm 2. PM_{2.5}: N.A. 3. PM₁₀: 104.4 mg/Ncm 4. NO₂: 2.7 mg/Ncm 5. SO₂: <0.05 mg/Ncm</p>	<p>4. NO₂: 3.6 mg/Ncm 5. SO₂: 1.0 mg/Ncm</p>	<p>4. NO₂: 17.45 mg/Ncm 5. SO₂: 0.89 mg/Ncm</p>	
				<p>5. Marilao 14°45'44"N 120°57'2"E</p>	<p>Marilao: N.A.</p>	<p>Marilao: 1. TSP: 55.2 mg/Ncm 2. PM_{2.5}: 6.1 mg/Ncm 3. PM₁₀: 47.5 mg/Ncm 4. NO₂: 4.1 mg/Ncm 5. SO₂: 0.6 mg/Ncm</p>	<p>Marilao: 1. TSP: 230.85 mg/Ncm 2. PM_{2.5}: 43.39 mg/Ncm 3. PM₁₀: 177.09 mg/Ncm 4. NO₂: 17.12 mg/Ncm 5. SO₂: 1.26 mg/Ncm</p>	<p>Marilao: 24-25 February 2021</p>
				<p>6. Meycauyan 14°44'20"N 120°57'39.32"E</p>	<p>Meycauayan: N.A.</p>	<p>Meycauayan: 1. TSP: 61.6 mg/Ncm 2. PM_{2.5}: 14.6 mg/Ncm 3. PM₁₀: 15 mg/Ncm 4. NO₂: 5.1 mg/Ncm 5. SO₂: 0.8 mg/Ncm</p>	<p>Meycauayan: 1. TSP: 199.31 mg/Ncm 2. PM_{2.5}: 41.05 mg/Ncm 3. PM₁₀: 50.78 mg/Ncm 4. NO₂: 11.88 mg/Ncm 5. SO₂: 1.13 mg/Ncm</p>	<p>Meycauayan: 23-24 February 2021</p>
				<p>7. Valenzuela 14°42'51" N 120°57'39"E</p>	<p>Valenzuela (2013): 1. TSP: 37.52 mg/Ncm 2. PM_{2.5}: N.A. 3. PM₁₀: 49.68 mg/Ncm 4. NO₂: 10.43 mg/Ncm 5. SO₂: 3.96 mg/Ncm</p>	<p>Valenzuela: 1. TSP: 27.3 mg/Ncm 2. PM_{2.5}: 5.3 mg/Ncm 3. PM₁₀: 12.5 mg/Ncm 4. NO₂: 4.9 mg/Ncm 5. SO₂: 1.2 mg/Ncm</p>	<p>Valenzuela: 1. TSP: 87.42 mg/Ncm 2. PM_{2.5}: 29.33 mg/Ncm 3. PM₁₀: 78.52 mg/Ncm 4. NO₂: 5.45 mg/Ncm 5. SO₂: 0.87 mg/Ncm</p>	<p>Valenzuela: 22-23 February 2021</p>
				<p>8. Caloocan 14°39'28.3" N 120°58'26.2"E</p>	<p>Caloocan (2014): 1. TSP: 97.28 mg/Ncm 2. PM_{2.5}: N.A. 3. PM₁₀: 97.60 mg/Ncm 4. NO₂: 30.81 mg/Ncm 5. SO₂: 15.53 mg/Ncm</p> <p>1. TSP: 86.3 mg/Ncm 2. PM_{2.5}: N.A. 3. PM₁₀: 30.5 mg/Ncm 4. NO₂: 10.6 mg/Ncm 5. SO₂: 0.4 mg/Ncm</p>	<p>Caloocan – N.A.</p>	<p>Caloocan – N.A.</p>	<p>Caloocan: N.A.</p>

					9. Manila 14°37'26.75" N 120°58'25.52"E	Manila – N.A.	Manila – N.A.	Manila – N.A.	Manila – N.A.
					10. Solis 14°37'56" N 120°58'34.6"E	Solis (2014): 1. TSP: 84.6 mg/Ncm 2. PM _{2.5} : N.A. 3. PM ₁₀ : 30.5 mg/Ncm 4. NO ₂ : 10.9 mg/Ncm 5. SO ₂ : 0.9 mg/Ncm	Solis – N.A.	Solis – N.A.	Solis – N.A.
					11. Tutuban 14°36'22" N 120°58'17"E	Tutuban (2014): 1. TSP: 81.3 mg/Ncm 2. PM _{2.5} : N.A. 3. PM ₁₀ : 46.7 mg/Ncm 4. NO ₂ : 12.7 mg/Ncm 5. SO ₂ : 2.3 mg/Ncm	Tutuban – N.A.	Tutuban – N.A.	Tutuban – N.A.

No.	Potential Impact	Parameter	Method	Frequency	Location	Standard ¹¹	Baseline		Latest Monitoring Result in 1 st quarter of 2021	
							Feasibility Study Phase ¹²	Pre-construction Phase (2019)	Result (Annex H)	Monitoring Date
2	Noise pollution	Noise level	Noise level meter	Monthly, immediately based on complaints	Bocaué	Class B ¹³	Bocaué (Class B):	N.A.	N.A.	N.A.
						<ul style="list-style-type: none"> - Morning: 60 dB - Daytime: 65 dB - Evening: 50 dB - Nighttime: 45 dB 	<ul style="list-style-type: none"> - Morning: 63.0 dB - Daytime: 61.9 dB - Evening: 59.1 dB - Nighttime: 53.2 dB 			
						Class 1 ¹⁴	N.A.	N.A.	Eastside of NSCR alignment, residential area, Turo, Bocaué (Class 1): <ul style="list-style-type: none"> - Morning: 69.2 dB - Daytime: 75.8 dB - Evening: 72.1 dB - Nighttime: 69.6 dB 	Eastside of NSCR alignment, residential area, Turo, Bocaué: <ul style="list-style-type: none"> 29-30 January 2021 19-20 February 2021 12-13 March 2021
						<ul style="list-style-type: none"> - Morning: 90 dB - Daytime: 90 dB - Evening: 55 dB - Nighttime: 50 dB 			<ul style="list-style-type: none"> - Morning: 66 dB - Daytime: 74.4 dB - Evening: 74.4 dB - Nighttime: 71.3 dB 	
									<ul style="list-style-type: none"> - Morning: 72.5 dB - Daytime: 74.8 dB - Evening: 74.30 dB - Nighttime: 72.5 dB 	

¹¹ Environmental Quality Standards for Noise in General Areas (NPCC, Memorandum Circular No. 002 Series of 1980)

¹² Source: NSCR EPRMP, March 2015

¹³ Class B – Commercial areas

¹⁴ Class 1 – Areas 30 m from construction works such as pile drivers (excluding manual type), pile extractors, riveting hammers or combination thereof.

					<p>Class 1</p> <ul style="list-style-type: none"> - Morning: 90 dB - Daytime: 90 dB - Evening: 55 dB - Nighttime: 50 dB 			<p>Westside of NSCR alignment, inside Violeta Metroville Homes, Bifang 2nd, Bocaue (Class 1):</p> <ul style="list-style-type: none"> - Morning: 67.8 dB - Daytime: 66.9 dB - Evening: 67.4dB - Nighttime: 61.8 dB <p>- Morning: 70.4 dB</p> <ul style="list-style-type: none"> - Daytime: 71.7 dB - Evening: 67.5 dB - Nighttime: 61.9 dB <p>- Morning: 67 dB</p> <ul style="list-style-type: none"> - Daytime: 69 dB - Evening: 64 dB - Nighttime: 59.5 dB 	<p>Westside of NSCR alignment, inside Violeta Metroville Homes, Bifang 2nd, Bocaue: 28-29 January 2021</p> <p>18-19 February 2021</p> <p>11-12 March 2021</p>
				Marilao	<p>Class AA¹⁵</p> <ul style="list-style-type: none"> - Morning: 45 dB - Daytime: 50 dB - Evening: 45 dB - Nighttime: 40 dB 	N.A.	<p>Tabig Ilog Elementary School, Marilao (Class AA):</p> <ul style="list-style-type: none"> - Morning: 77.8 dB - Daytime: 78.93 dB - Evening: 76.8 dB - Nighttime: 68.42 dB 	N.A.	N.A.
					<p>Class AA</p> <ul style="list-style-type: none"> - Morning: 45 dB - Daytime: 50 dB - Evening: 45 dB - Nighttime: 40 dB 	N.A.	<p>Abangan Norte Elementary School, Marilao (Class AA):</p> <ul style="list-style-type: none"> - Morning: 70.1 dB - Daytime: 71.84 dB - Evening: 70.83 dB - Nighttime: 63.5 dB 	N.A.	N.A.

¹⁵ Class AA - Areas which require quietness

					<p>Class A</p> <ul style="list-style-type: none"> - Morning: 60 dB - Daytime: 65 dB - Evening: 60 dB - Nighttime: 55 dB 	N.A.	N.A.	<p>Eastside of NSCR alignment (Near Medallion Homes), Marilao (Class A):</p> <ul style="list-style-type: none"> - Morning: 82.4 dB - Daytime: 74.8 dB - Evening: 82.2 dB - Night Time: 81.2 dB 	<p>Eastside of NSCR alignment (Near Medallion Homes), Marilao: 18-19 November 2020</p>
				Meycauayan	<p>Class AA</p> <ul style="list-style-type: none"> - Morning: 55 dB - Daytime: 60 dB - Evening: 55 dB - Nighttime: 50 dB 	N.A.	<p>Near St. Mary Meycauayan College (Class AA):</p> <ul style="list-style-type: none"> - Morning: 86.45 dB - Daytime: 86.0 dB - Evening: 87.760 dB - Nighttime: 86.90 dB 	N.A.	N.A.
					<p>Class AA</p> <ul style="list-style-type: none"> - Morning: 45 dB - Daytime: 50 dB - Evening: 45 dB - Nighttime: 40 dB 	N.A.	<p>Front of Meycauayan College (Class AA):</p> <ul style="list-style-type: none"> - Morning: 86.28 dB - Daytime: 86.58 dB - Evening: 86.73 dB - Nighttime: 86.41 dB 	N.A.	N.A.
					<p>Class A</p> <ul style="list-style-type: none"> - Morning: 50 dB - Daytime: 55 dB - Evening: 50 dB - Nighttime: 45 dB 	N.A.	N.A.	<p>Eastside of NSCR alignment, Residential area, Sullera St., Pandayan, Meycauayan (Class A):</p> <ul style="list-style-type: none"> - Morning: 66.8 dB - Daytime: 59.7 dB - Evening: 67.8 dB - Night Time: 66.9 dB 	<p>Eastside of NSCR alignment, Residential area, Sullera St., Pandayan, Meycauayan: 27-28 January 2021</p>

								<ul style="list-style-type: none"> - Morning: 78.1 dB - Daytime: 68.8 dB - Evening: 78 dB - Night Time: 78 dB 	17-18 February 2021	
								<ul style="list-style-type: none"> - Morning: 77.6 dB - Daytime: 69 dB - Evening: 77 dB - Night Time: 77.9 dB 	9-10 March 2021	
					Class 1	N.A.	N.A.	<ul style="list-style-type: none"> - Morning: 90 dB - Daytime: 90 dB - Evening: 55 dB - Nighttime: 50 dB 	<p>Eastside of Old PNR Meycauayan, near Little Grace Park Subd., Malhakan, Meycauayan, Bulacan (Class 1):</p> <ul style="list-style-type: none"> - Morning: 60.6 dB - Daytime: 63.8 dB - Evening: 62.7 dB - Nighttime: 57.6 dB 	<p>Eastside of Old PNR Meycauayan, near Little Grace Park Subd., Malhakan, Meycauayan, Bulacan:</p> <p>26-27 January 2021</p>
								<ul style="list-style-type: none"> - Morning: 76.6 dB - Daytime: 76.1 dB - Evening: 76.7 dB - Nighttime: 78.2 dB 	16-17 February 2021	
								<ul style="list-style-type: none"> - Morning: 75.5 dB - Daytime: 76.5 dB - Evening: 77.3 dB - Nighttime: 76.9 dB 	10-11 March 2021	

					Valenzuela City Class A - Morning: 55 dB - Daytime: 60 dB - Evening: 55 dB - Nighttime: 50 dB	Valenzuela (Class A): - Morning: 49.2 dB; 51.1 dB - Daytime: 51.5 dB; 52.5 dB; 68.1 dB; 51.7 dB - Evening: 66.85 dB; 52.2 dB; 50.9 dB - Nighttime: 61.61 dB 52.1 dB 50.5 dB 48.9 dB 48.9 dB	N.A.	Residential area, Eastside of Depot, Viente Reales, Valenzuela City (Class A): - Morning: 68.3 dB - Daytime: 68.2 dB - Evening: 56.4 dB - Nighttime: 55.6 dB - Morning: 69.9 dB - Daytime: 75.3 dB - Evening: 76.2 dB - Nighttime: 64.1 dB - Morning: 74.5 dB - Daytime: 72.8 dB - Evening: 73.2 dB - Nighttime: 66.9 dB	Residential area, Eastside of Depot, Viente Reales (Class A): Valenzuela City: 25-26 January 2021 15-16 February 2021 8-9 March 2021
					Class AA - Morning: 45 dB - Daytime: 50 dB - Evening: 45 dB - Nighttime: 40 dB	N.A.	Inside Malinta Elementary School (Class AA): - Morning: 65.25 dB - Daytime: 60.88 dB - Evening: 66.85 dB - Nighttime: 61.61 dB Outside campus Malinta Elementary School - Morning: 85.68 dB - Daytime: 85.53 dB - Evening: 85.3 dB - Nighttime: 85.86 dB	N.A.	N.A.
					Malolos Class B - Morning: 60 dB - Daytime: 65 dB - Evening: 50 dB	Malolos (Class B): - Morning: 56.3 dB - Daytime: 65.1 dB - Evening: 55.9 dB - Nighttime: 50.8 dB	N.A.	N.A.	N.A.

						- Nighttime: 45 dB				
						Class AA - Morning: 45 dB - Daytime: 50 dB - Evening: 45 dB - Nighttime: 40 dB	N.A.	Holy Infant Elementary School, Malolos (Class AA): - Morning: 66.62 dB - Daytime: 65.71 dB - Evening: 67.05 dB - Nighttime: 64.7 dB	N.A.	N.A.
						Class A - Morning: 50 dB - Daytime: 55 dB - Evening: 50 dB - Nighttime: 45 dB	N.A.	N.A.	N.A.	N.A.
					Balagtas	Class A - Morning: 50 dB - Daytime: 55 dB - Evening: 50 dB - Nighttime: 45 dB	N.A.	N.A.	Balagtas (Activity Site near PR5-91; Class A): - Morning: 69.3 dB - Daytime: 76.4 dB - Evening: 75.9 dB - Nighttime: 58.0 dB Balagtas (Activity Site near PR5-98; Class A): - Morning: 77.0 dB - Daytime: 77.5 dB - Evening: 79.0 dB - Nighttime: 68.8 dB	16-17 February 2021 16-17 March 2021
					Guiguinto	Class A - Morning: 50 dB - Daytime: 55 dB - Evening: 50 dB - Nighttime: 45 dB	N.A.	N.A.	Guiguinto (Activity Site near PR6-69; Class A): - Morning: 67.30 dB - Daytime: 67.30 dB - Evening: 64.4 dB - Nighttime: 68.6 dB	22-23 January 2021

No.	Potential Impact	Parameter	Method	Frequency	Location	Standard	Baseline		Latest Monitoring Result in 1 st quarter of 2021	
							Feasibility Study Phase ¹⁶	Pre-construction Phase (2019)	Result (Annex I)	Monitoring Date
3	Increase in ground vibration level due to the operation of heavy equipment and machinery	Vibration level	Vibration level meter	Quarterly, immediately based on complaints	Malolos	BS 5228-2:2009¹⁷: - 1.0 mm/s - <i>It is likely that vibration of this level in residential environments will cause complaints but can be tolerated if warning and explanation have been given to residents.</i>	N.A.	Holy Infant School, Malolos City (Category 3): - Daytime: 0.69 mm/s	N.A.	N.A.
					Bocaue	FTA Ground-Borne Vibration and Noise Impact Criteria for Frequent events¹⁸ Category 2: Residences and buildings where people normally sleep: 72 Vdb	N.A.	N.A.	Violeta Metroville Homes (alternative station) Morning - x: 48 VdB y: 51 VdB z: 47 VdB Day - x: 49 VdB y: 52 VdB z: 49 VdB Evening - x: 50 VdB y: 52 VdB z: 51 VdB Nighttime - x: 49 VdB y: 51 VdB z: 48 VdB	18-19 February 2021

¹⁶ Source: NSCR EPRMP, March 2015

¹⁷ Source: BS 5228-2:2009 (BSI British Standards: Code of practice for noise and vibration control on construction and open sites)

¹⁸ Frequent events are defined as more than 70 vibration events of the same source per day. Most rapid transit projects fall into this category

					Category 2: Residences and buildings where people normally sleep: 72 Vdb	N.A.	N.A.	Biñang 2 nd (alternative station) Morning - x: 51 VdB y: 53 VdB z: 52 VdB Day - x: 49 VdB y: 51 VdB z: 50 VdB Evening - x: 53 VdB y: 54 VdB z: 53 VdB Nighttime - x: 51 VdB y: 53 VdB z: 49 VdB	19-20 February 2021
				Marilao	Category 3: Institutional land uses with primarily daytime use: 75 Vdb	N.A.	Tabing Ilog Elementary School, Marilao (Category 3): - Morning: 63 VdB - Daytime: 70 VdB - Evening: 68 VdB - Nighttime: 60VdB	N.A.	N.A.
					Category 3: Institutional land uses with primarily daytime use: 75 Vdb	N.A.	Abangan Norte Elementary School, Marilao (Category 3): - Morning: 53 VdB - Daytime: 63 VdB - Evening: 57 VdB - Nighttime: 56 VdB	N.A.	N.A.

					Category 2: Residences and buildings where people normally sleep: 72 Vdb	N.A.	N.A.	Medallion Homes (alternative station) Morning - x: 48 VdB y: 51 VdB z: 47 VdB Day - x: 49 VdB y: 52 VdB z: 48 VdB Evening - x: 48 VdB y: 51 VdB z: 47 VdB Nighttime - x: 48 VdB y: 51 VdB z: 47 VdB	17-18 February 2021
				Meycauayan	Category 3: Institutional land uses with primarily daytime use: 75 Vdb	N.A.	St. Mary Meycauayan College (Category 3): - Morning: 72 VdB - Daytime: 76 VdB - Evening: 77 VdB - Nighttime: 78 VdB	N.A.	N.A.
					Category 3: Institutional land uses with primarily daytime use: 75 Vdb	N.A.	Meycauayan College (Category 3): - Morning: 66 VdB - Daytime: 68 VdB - Evening: 70 VdB - Nighttime: 67 VdB	N.A.	N.A.

					Category 2: Residences and buildings where people normally sleep: 72 Vdb	N.A.	N.A.	Little Grace Park Subdivision (alternative station) Morning - x: 53 VdB y: 53 VdB z: 48 VdB Day - x: 55 VdB y: 55 VdB z: 50 VdB Evening - x: 54 VdB y: 52 VdB z: 49 VdB Nighttime - x: 51 VdB y: 53 VdB z: 48 VdB	16-17 February 2021
				Valenzuela	Category 3: Institutional land uses with primarily daytime use: 75 Vdb	Valenzuela: - ND	Malinta Elementary School (Category 3): - Morning: 59 VdB - Daytime: 57 VdB - Evening: 58 VdB - Nighttime: 55 VdB	N.A.	N.A.
					Category 2: Residences and buildings where people normally sleep: 72 Vdb	N.A.	N.A.	Viente Reales (alternative station) Morning - x: 48 VdB y: 51 VdB z: 47 VdB Day - x: 50 VdB y: 52 VdB z: 49 VdB Evening - x: 49 VdB y: 53 VdB z: 48 VdB Nighttime	15-16 February 2021

								- x: 48 VdB y: 52 VdB z: 46 VdB		
					Old PNR Stations Malolos Old PNR Station (Category 3)	BS 5228-2:2009¹⁹: - 1.0 mm/s - <i>It is likely that vibration of this level in residential environments will cause complaints but can be tolerated if warning and explanation have been given to residents.</i>	N.A.	Malolos Old PNR Station (Category 3): - Daytime: 0.76 mm/s	Point 1 - x: 11.96 mm/s y: 0.508 mm/s z: 0.483 mm/s Point 2 - x: 0.178 mm/s y: 0.127 mm/s z: 0.635 mm/s	16 February 2021
					Guiguinto Old PNR Station (Category 3):		Guiguinto Old PNR Station (Category 1): - 0.002 mm/s ²	Guiguinto Old PNR Station (Category 3): - Daytime: 0.56 mm/s	Point 1 - x: 0.152 mm/s y: 0.152 mm/s z: 0.127 mm/s Point 2 x: 0.152 mm/s y: 0.152 mm/s z: 0.152 mm/s	16 February 2021
					Balagtas Old PNR Station (Category 3)		N.A.	Balagtas Old PNR Station (Category 3): - Daytime: 0.38 mm/s	Point 1 - x: 0.229 mm/s y: 0.178 mm/s z: 0.406 mm/s Point 2 - x: 0.330 mm/s y: 0.178 mm/s z: 0.356 mm/s	16 February 2021
					Meycauayan Old		N.A.	Meycauayan Old PNR	N.A.	N.A.

¹⁹ Source: BS 5228-2:2009 (BSI British Standards: Code of practice for noise and vibration control on construction and open sites)

					PNR Station (Category 3)	FTA Ground-Borne Vibration and Noise Impact Criteria for Frequent events Category 3: Institutional land uses with primarily daytime use: 75 Vdb		Station (Category 3): ²⁰ - Morning: 83 VdB - Daytime: 84.67 VdB - Evening: 84.33 VdB - Nighttime: 83.33 VdB		
					Valenzuela Old PNR Station (Category 3)		N.A.	Valenzuela Old PNR Station (Category 3): ²¹ - Morning: 83.67 VdB - Daytime: 85.33 VdB - Evening: 84.67 VdB - Nighttime: 84.00 VdB	N.A.	N.A.

²⁰ Date of Sampling: January 2020

²¹ Date of Sampling: January 2020

(4) Impact on People

No.	Potential Impact	Parameter	Method	Frequency	Location	Standard	Latest Monitoring Result in 1 st quarter of 2021	
							Result	Monitoring Date
1	Traffic conditions	Traffic flow (congestion)	Ocular inspection	Weekly	A major intersection in the vicinity of constriction sites	N.A.	<p>To manage traffic flow, the contractors provided flagmen with proper traffic gears, and cautionary signages.</p> <p>Contract Package 01 Provision of flagmen with proper traffic gears:</p> <ol style="list-style-type: none"> 1. Brgy Malanday (ACA Rd) 5 flagmen deployed 2. Dalandanan, Valenzuela City: 10 flagmen deployed 3. Brgy. Malinta: 7 flagmen deployed 4. Brgy Bancal (Bancal Extension) 10 flagmen deployed 5. Brgy. Tugatog: 7 flagmen 6. Brgy. Malhacan (Malhacan Rd. & Bulac Road) with 6 flagmen deployed 7. Brgy. Saluysoy (Sullera St., RMC Gate) with 7 flagmen deployed 8. MPTB: 8 enforcers 9. Saog, Marilao: 7 flagmen 10. Ibayo, Marilao: 7 flagmen 11. MTMU Marilao: 8 enforcers 12. Brgy. Turo (Gov. F. Halili Ave.) with 5 flagmen deployed 13. Igulot, Bocaue: 6 flagmen 14. Taal, Bocaue: 7 flagmen 15. BTMB: 6 enforcers <p>Provision of cautionary signages:</p> <ol style="list-style-type: none"> 1. Brgy Malanday (ACA Rd) 	N.A.

							<p>2. Brgy Bancal (Bancal Extension)</p> <p>3. Brgy. Malhacan (Malhacan Rd. & Bulac Road)</p> <p>4. Brgy. Saluysoy (Sullera St., RMC Gate)</p> <p>5. Brgy. Turo (Gov. F. Halili Ave.)</p> <p>Contract Package 02</p> <p>1. Paseo Del Congreso, Fausta Road, Valcrest Passageway, Malolos Sports Center Cockpit Arena, Cofradia Passageway, and Guiguinto area: 2 cautionary signages installed and 1 flagman deployed each</p> <p>2. Saint Frances Street, Masagana Street, Ilang-ilang Street, Malis Street, C. Mercado Street, C. Joaquin Street, San Agustin Street, and San Pablo Street in Guiguinto: 2 cautionary signages installed and 1 flagman deployed each</p> <p>3. Borol St. and Longos Atienza Street: 2 cautionary signages installed and 1 flagman deployed each</p> <p>See Annex J</p>	
2	Loss of old PNR stations	Status of old PNR stations	Ocular inspection	Monthly until preservation work of station is completed	Malolos Station, Meycauayan Station, Polo/Valenzuela Station, and Tutuban Station	Status of old PNR stations	<p>Valenzuela Old PNR Station:</p> <ul style="list-style-type: none"> - Protection fence is intact but is too close to the structure making it difficult to measure the cracks - Few weeds/bushes within the 	<p>Valenzuela Old PNR Station:</p> <p>21 January 2021 & 18 February 2021</p>

							<p>stations' protection fence</p> <ul style="list-style-type: none"> - No significant changes to roof structures after the last inspection. - Trash was seen on the plant boxes - Needs improvement for the markers/labels of the cracks <p>Meycauayan Old PNR Station:</p> <ul style="list-style-type: none"> - Protection fence are intact - No evidence of unauthorized access - Structure is kept free of unwanted vegetation - Wooden wall panels, dismantled due to typhoon (South exterior), were stored inside the station. - Due to heavy rains the night before the inspection (18 Feb 2021), the station was flooded; drainage system was suggested <p>Bigaa (Balagtas) Old PNR Station:</p> <ul style="list-style-type: none"> - Protection fence is intact - No evidence of unauthorized access - Old station is kept free of unwanted vegetation - No significant expansion of cracks was observed - There were 3 new identified cracks since 22 Jan 2021 	<p>Meycauayan Old PNR Station: 21 January 2021 & 18 February 2021</p> <p>Bigaa (Balagtas) Old PNR Station: 22 January 2021 19 February 2021 29 March 2021</p>
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							<ul style="list-style-type: none"> - Presence of underground hole inside the station is yet to be verified <p>Guiguinto Old PNR Station:</p> <ul style="list-style-type: none"> - Protection fence is intact. - No evidence of unauthorized access - Weeds/bushes around the station were cleared - There were no significant cracks were observed/ measured but superficial cracks were present in some parts of the structure like the floors. - No evident changes on the structure <p>Malolos Old PNR Station:</p> <ul style="list-style-type: none"> - Protection fence is intact - No evidence of unauthorized access - Old station is kept free from unwanted vegetations - Deteriorating ceiling and damaged roofing were observed. - Some identified cracks were widened. <p>(Annex K)</p>	<p>Guiguinto Old PNR Station:</p> <p>22 January 2021</p> <p>19 February 2021</p> <p>29 March 2021</p> <p>Malolos Old PNR Station:</p> <p>22 January 2021</p> <p>19 February 2021</p> <p>29 March 2021</p>
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