

a. Social Analysis

i. Sub-Project Beneficiaries

The subproject beneficiaries are the residents of Brgy Caduhaan, the farmer beneficiaries of Sitio Dalayapan, Sitio Juan Gamboa, Hda. Bernardetta, Hda. Ladngon, Hda. Navidad, Hda Tagbanon, Hda Banas, Hda Torena, Hda. Maluga, Hda Letecia and Sitio Aluyan. The total direct beneficiaries is 3,165 with 633 household out of the 9,258 population with 1,819 households.

Table d. Sub-project Direct Beneficiaries

Name of Sitio/ Hacienda Covered	No. of Households	Population	Male	Female
1. Sitio Dalayapan	83	415	215	200
2. Sitio Juan Gamboa/ Caduha-an Proper	7	35	19	16
3. Hda. Bernardetta	128	640	326	314
4. Hda. Ladngon	58	290	148	142
5. Hda. Navidad	57	285	160	125
6. Hda. Tagbanon	34	170	89	81
7. Hda. Banas	60	300	147	153
8. Hda. Torena	11	55	32	23
9. Hda. Maluga	70	350	196	154
10. Hda. Letecia	33	165	84	81
11. Sitio Aluyan	92	460	240	220
TOTAL	633	3,165	1,656	1,509

Source: CPDO, Cadiz City

Project identification was conducted by the barangay and city officials among the residents of Barangay Caduhaan particularly the agrarian reform beneficiaries who aired out their sentiments in improving the agricultural land awarded to them by the Department of Agrarian Reform. The women in the community also raised issues on employment opportunities where they have the difficulty in availing due to constraints brought about by the present road condition.

Since majority of the above mentioned population are sugarcane farm workers and laborers dependent on cane harvesting as their source of income, delayed in the number of trips also lower their income for the day. Rehabilitation of the proposed farm-to market road from Barangay Caduhaan to Sitio Aluyan will bring various economic benefits to the local residents including access to health and education for their children.

ii. Indigenous Cultural Community/Indigenous Peoples (ICC/IP)

There are no indigenous cultural community/indigenous people living within the road influence area of the subproject Rehabilitation of Barangay Caduhaan to Sitio Aluyan FMR as per record from the National Commission on Indigenous People, Negros Occidental . Hence, issuance of Certificate of Non-overlap is still on-process with attach

letter request from PPMIU and duly responded by the newly installed NCIP Regional Director.

iii. Site and Right-of-Way acquisition

The Road Influence area is 12.46 kilometers from the national highway traversing sugarcane farms of various titled landowners. Some properties were foreclosed and agrarian reform beneficiaries were able to retrieve through Voluntary Offer to Sell scheme and were given Certificate of Land Ownership Agreement.

Survey of project affected persons was conducted by a composite team which includes representative coming from the barangay, LGU and the PPMIU staff who assessed/evaluated the properties or structures that might be encroached during implementation. The Sangguniang Panglungsod of the City of Cadiz passed a resolution authorizing the city mayor to negotiate/expropriate/any moves allowable by law to secure a Road Right of Way for those landowners who refused to donate portion of their properties in favor of the proposed farm-to-market road rehabilitation. In this connection Demand Notice for Expropriation to all 14 landowners affected with the road project had been informed officially where they will be given 15 days to reply after receiving the documents. The City of Cadiz on the other hand also allocated PhP 1,200,000.00 per Appropriation Ordinance No. 2014-05 to be used as payment of the land valued for expropriation.

Victorias Milling Company is very willing to donate the aforementioned lots for the road right of way but because all their properties is still under corporate rehabilitation giving them no rights in the disposition/donation of the said properties. Other landowners opted to have their properties expropriated for they will not be the direct beneficiaries of this project for most of their properties were subject to agrarian reform. The most favorable option for them is to sell their properties to the government thus expropriation is hereby solicited as the best alternative for their properties. At the moment the City of Cadiz is awaiting for the appointment of the new presiding judge to issue writ of possession to all land holdings covered by expropriation at Station 48 + 342.19 concrete fence owned by Leonardo Doza

For those landowners who voluntarily donated their lots, donor's tax return is being processed prior to title annotation with the Register of Deeds. Waiver of Quit Claims are also notarized for landowners who voluntarily declined to receive any entitlement from the government.

The land area under the name of Efren Española is equivalent to 202,416 sq. meters bearing Lot Nos. 1337-B (37,639 sq.m., Lot 1337-C (34,450 sq.m), Lot 1133-B-2 (41,500 sq. m.), Lot 1133-B-5 (47,311 sq. m.) and Lot 1133-B-4 (41,516 sq. m.). This is one of the property with CLOA documents and are then consolidated in Annex G-2 below.

iv. Damage to standing crops, houses and/or properties

The Rehabilitation of Brgy Caduhaan to Sitio Aluyan FMR will traverse sugarcane farms with existing standing crops 27 exotic trees like eucalyptus, gmelina and mahogany, 132 fruit trees like mango, kaimito, jackfruit and coconuts. The Department of Environment and Natural Resources only allows 35 pieces of trees for the rest are coconuts and trees that aged 1 year and below as per evaluation conducted by the said agency. Waiver of Quit Claims are being processed for the existing barangay road as per

surveyed by the Department of Agrarian Reform has a total width of 10 meters and since only one lane is being utilized some portions where vegetation grows were cleaned and planted with crops and various trees.

At the entrance, a portion of a mini store structure and the front fence of Manapla Fellowship Baptist Church will be affected thereby Relinquishment of Rights had been voluntarily signed together with a Waiver of Quit Claim. Restoration of the demolished fence will be shouldered by the local government of Cadiz City through its barangay officials while the mini store is to be compensated by the barangay captain. Land owners who signed deed of donations for RROW, also signed waiver of quit claims relinquishing their rights for properties that will be included in the improvement of the road network of the barangay. For landowners who refused to relinquish rights of their properties, the Local Government of Cadiz City will be responsible for any expropriation of the project affected persons.

v. Physical displacement of persons

No displacement of persons before and during the construction of the Farm-to-Market Road for this is an existing sugar road. Rehabilitation of the proposed sub-project will be a physical advantage on their part for this will give them ease and comfort terms of travel and in looking for job opportunities outside.

vi. Economic displacement of persons

Since this is an existing sugar road, the community is spared from displacement, for their means of livelihood for it is not located within the periphery of the proposed farm-to-market road. Any livelihood where residents are engaging into like business enterprise or small entrepreneurship will not be affected during the rehabilitation of the Farm-to -Market Road. Instead, the rehabilitation of the proposed farm-to-market road will spur economic activities among the residents for the project duration is more than a year. Hiring of local residents is a priority thus, they will be economically alleviated during the implementation process.

Annex G – Form 2

Department of Agriculture
Philippine Rural Development Program

INVENTORY & ENTITLEMENT OF PROJECT AFFECTED PERSONS

Component: IBUILD														Project Number:						
Barangay: Caduhaan				Municipality: Cadiz City										Province: Negros Occidental		Region: VI				
HH Survey No.	Name of Head of Household	No. of Persons in HH	Land, Crop, and Trees Losses								Structures Losses				Economic Losses			REMARKS	Total Entitlements in Pesos	
			Total Landholding of Hhold in Sq. M.	Land to be Acquired in Sq. M.	Land Type	Land Loss as % of Total	Crops lost type	Crops lost in Sq. Meters	Trees Lost Number	Fruit trees Lost Number	No. & Type of lost structures	Structures Permanent in Sq. M.	Structures Temp.in meters	Tombs Number	Wells No.	Business lost	Income Lost			Temporary losses (Specify)
001	Percelita Lozada	8	300	none	A		21		2	7									Waiver	None
002	Francisco Condrillon	8	300	none	A		43		3										Waiver	None
003	Sofia Equinan	9	200	none	A		5			2	1		10						Waiver	None
004	Ruben Inanoria	4	100	none	A					9									Waiver	None
005	Ma. Celia Noble	9	300	none	A					2									Waiver	None
006	Ernesto Huila	8	80	none	A					8	1	1.0							Waiver	None
007	Gallardo Rebojo	7	200	none	A								10						Waiver	None

008	Letty Rebojo	4	20	none	A		5			1			20					Waiver	None
009	Alipio Huila	4	400	none	A		15			3			4					Waiver	None
010	Manalo Porre	4	700	none	A					3	1	1.0	40		1			Waiver	None
011	Gilbert Abayon		36,000		A					32								Waiver	None
012	Gualberto Castro	5	20						2				10					Waiver	
013	Rodrigo Juela	4	200					4	3				3					Waiver	None
014	Rosario Solatorio		5000	400		8												Expropriation	8680.00
015	Ninfa Cataluña		5000	160		3.2												Expropriation	
016	Glicerio Bolinas/Manapla Baptist Church		1500	600		40												Waiver	None
017	Khristian Vincent Ortigosa, et.al ^a		106413	3000		2.8												Expropriation	65,100.00
018	Joel Lacson., Et., Al		107140	2800		2.6												Expropriation	60,760.00
019	Monserat De Vasquez		267800	2800		1.04												Expropriation	
020	Alexis Javelosa		246224	16800		6.82												Expropriation	364,560.00
021	Victorias Milling Company/b		55353	21,440														Under negotiation	
022	Geraldine O' Leary Et., Al	7	10400	6400															DOD
023	Pacita Lacson	5	387000	3200		.83													69,440.00
024	Roger Lumberto Et., Al		104753	1150														CLOA	DOD
025	Manuel S. Lacson		102201	1700		1.66												Expropriation	36,890.00
026	Jose Ma. Leandro M. Lacson Et. al		101100	3200		3.16												Expropriation	86,800.00

027	Efren Española		202416	9200		3.85													CLOA	none
028	Dalayapan Farms Inc.		3,385,551	43,712	A	1.29				32									For Expropriation (AO 50)	781,200.00
029	Leonardo B. Santiana		159902	1000	A	0.62													CLOA	none
30	Public Land		40204	4000	A	9.9														
31	Leonardo Doza		2500		C															
TOTAL																				

* Refer to Form No.1 (on file) as source of above data

b. Environmental Analysis

i. Natural habitat

The proposed project shall be located in Brgy. Caduhaan, City of Cadiz. It will traverse a private land/property passing through two (2) “overflow bridges” i.e. the Dalayapan River and the Sicaba River Overflow bridges. This subproject is an existing sugar road that connects Sitio Aluyan to the national highway and does not pass any declared or proposed protected natural habitat. It is characterized by the presence of “hacienda systems” where majority of the road influence area is planted with sugarcane. Aside from sugarcane there are coconuts, bananas, exotic tree species, bamboos and fruit trees that thrive in the sub-project. Along the roadside shrubs and grasses are predominantly evident.

Rice and corn is also thriving in the proposed sub-project. The presence of the two river system will bring about agricultural development for this can be tapped for irrigation purposes increasing the area for rice and corn production.

ii. Physical Cultural Resources

Physical Cultural Resources has insignificant effect in the subproject area and no historical monuments or archaeological artifacts that is situated in the road influence area for most of the land is a hacienda type or titled properties where landlords have the control over the area.

iii. Terrain, Soil Types and Rainfall

The terrain in the subproject area is basically plain and there are rolling portions which make it suited for agriculture. Based on the soil classification map of the Province of Negros Occidental for Cadiz City, Brgy. Caduhaan is made of Silt Clay Materials. The typical material of this group is a non-plastic or moderately plastic silty soil usually having 75 percent or more passing the 75 micro mtr. (No. 200) sieve. These predominantly silty soils are quite common in occurrence. Their texture varies from sandy loams to silty and clayey loams. With the proper amount of moisture present, they may perform well as a pavement component.

Since most of the crops being planted is sugarcane and rice, the Bureau of Soils and Water Management (BSWM) recommends intense farm management to optimize crop production. Barangay Caduhaan has a total annual rainfall of 30,834 mm for 2012 and 34,813 mm for 2013. This was derived from the warm and moist southwest monsoon (Habagat) and tropical cyclones. The effect of Typhoon Yolanda can still be felt because it destroys not only infrastructures as well as agricultural crops particularly sugarcane and rice.

iv. Hazard/risk assessment (Drainage Situations, Erosion, Flooding Potential)

At station 49 + 055, there is a major road crossing namely the Sicaba River with an estimated total catchment area of 500 hectares. An existing spillway bridge called Bernardetta Overflow has a total length of 45 mtrs. and 3 meters wide. Maximum flood height for the above mentioned river is 3m. The other one is called Dalayapan River along station 56 + 133 where the estimated catchment area is 300 hectares. The existing Leticia Overflow has a total length of 60 m and 3 meters wide and a maximum flood level of 2.50 meters above concrete pavement. Although, 3.00 and 2.50 maximum flood height occurred, massive flooding does not occur during heavy downpour since water subsides easily because of clear water way.

As to the drainage situations, canals will be constructed on every side of the road project for there are areas that are sloping particularly for grade above 5%, canal lining will be provided to mitigate scouring. Grouted riprap, slope protection will be also placed in areas that are at risk to erosion.

v. Status of Environmental Clearances

The subproject falls under Category B of DENR DAO 03-2030 and needs to undergo Initial Environmental Examination (EIA). Though, the existing width of the proposed FMR is 7m, an Environmental Clearance Certificate is being applied from the Environment Management Bureau (EMB) of DENR. A letter addressed to the EMB Provincial Office by the PPMIU was sent with corresponding reply to comply the requirements needed such as Survey Plans, Vicinity/Topographic maps, Zoning Certification and Proof Of Ownership (Deed of Donations duly annotated with the Register of Deeds) prior for to the issuance of ECC . The delay is due to the processing of the Proof of Ownership with various landowners that were affected with the rehabilitation of the Farm-to-Market Roads. Since there are trees to be cut prior to the construction phase a Tree cutting Permit from the DENR was requested to this effect. The quarry source is around 5 kms away from the construction site which is located in Brgy Purisima, Municipality of Manapla which had been accredited by the Provincial Environment and Management Office. No identified waste disposal site for all earthmoving activities for these cut areas will be utilized for embankment purposes.

vi. Social and Environmental Impacts – attach ESMP

Hereunder are the issues with potential impact with corresponding assessment and mitigation measures and how to implement such measures, identifying responsible authority to spearhead its implementation.

Annex E-1.

Issue (Potential Impact)	Assessment	Mitigation measure	Schedule/ Duration of the Mitigation Measures	Instrum ent of Implem entation (POW, Contract , IDP, or OC&M Plan)*	Responsi ble Unit
1. Temporary increase in sedimentation during construction	Topography of the road alignment necessitate massive earthmoving and cutting of clayey of loose top soil	Silt traps will be provided for earthmoving/cutting of slopes Proper disposal and compaction of soils	53 CD	DED/POW ; Contract	PEO/ City Gov't.
2. Potential contamination of surface and groundwater with oil/grease	There will be no or insignificant amount of waste oil/grease during construction	Proper handling and disposal of waste oil and grease if ever present		Contract	CityGov't.
3. Potential contamination with human waste	Some construction workers would be temporarily housed in base camp Workers would be mostly locals and are expected to go home to their respective houses after works	Set up adequate latrine/toilet facility at the base camp		Contract	Contractor
4. Potential disruption of traffic flow	The construction will not affect daily movement of residents and farmers	Keep the road open to traffic flow and minimize disruptions along the access road and/or construction area; Provide adequate warning signs and traffic personnel when necessary Undertake regular maintenance measures on the passable portions of the roads.		Contract	Contractor

5. Potential dust/mud nuisance during construction	Road construction/ rehabilitation does not pass through any populated area.	No measures needed			Community residents and officials
6. Landslide/ erosion of exposed road sides resulting in sedimentation in waterways during construction phase	There is no major downgrading of slopes	Include slope protection works at the following stations. Riprap at Sta. 56+116.82 to Sta. 56+173.84		DED/POW or (if budget does not permit) LGU Commitment letter	Contractor
7. Increase of suspended particulate matter in air					
8. Inadequate drainage resulting in flooding or ponding	The road will block run off, resulting in flooding on one side of the road during rainy days	Installation of cross drain between stations. Sta 51 +453. 52 +118, 53+874, 54+763, 54+993, 58+822, 59+974 & 60+231		DED	Contractor
9. Potential acceleration of denudation of the upland/ hilly areas due to intensification of crop production	The road connects only lowland farms to the market	No measures required		O & M Plan; Capacity Building Plan	
10. Potential increased in encroachments of human activities into the nearby public forest	The proposed road does not improve access to a public forest	No measures required		O & M Plan; Capacity Building Plan	
11. Provide local employment	Construction will provide local employment opportunities	Hiring priority shall be given to qualified local residents; Implement RI Manual on local hiring	384 CD	Contract	PEO

12. Potential increase of solid waste to be generated due to influx of construction workers					
13. Road safety and management	Safety measures for workers and commuters during project construction	Road hats, safety shoes and other accessories for workers Installation of warning signs and devices for commuters and residents		OCM DED	PLGU/ Contractor
14. Increase volume of traffic after construction	With the improvement of the road network the number of vehicles will increase	Speed limit be regulated		O & M	CLGU/ Brgy Officials
15.Chance Find of Any Archaeological/Paleontological resources	Construction will be suspended	Secure the area and take photographs of the artifacts with or without the LGU contract administrator or representative Report finds to PPMIU, RPCO SES Officer and to the National Museum			Contractor / Brgy Officials/ CLGU/ PLGU

* CD = calendar days