

BUOD NG EIS PARA SA PUBLIKO

I. FACT SHEET NG PROYEKTO

Pangalan ng Proyekto	600,000 MT Steel Mill Plant Project
Lokasyon ng Proyekto	Barangay Baluarte, Tagoloan, Misamis Oriental
Kapasidad ng Proyekto	600,000MT na may kakayahang gumawa ng round bars na may sukat na 10mm, 12mm, 16mm and 20mm. <i>Paalaala: Ang ECC na binigay para sa 28,000 MTPY capacity ay hindi naisakatuparan</i>
Kabuuang Laki ng Proyekto	Ang Steel Mill Plant ay nakatayo sa 22.5575 ektarya na inuupahan sa PHIVIDEC Industrial Estate. Ang planta ay may sariling pantalan na may sakop na 5.8514 ektarya sa dalampasigan para sa paglulan at pagbaba ng mga kargamento.
Bahagi ng Proyekto	Pangunahing Bahagi <ul style="list-style-type: none"> • 1 Electromagnetic Overhead Crane • Raw Material Storage Facility / Scrap Storage Warehouse (3 x 15,000.00 metric tons of metal scrap) • 6 sets of 40 ton melting furnaces using coreless electric induction furnace • 3 units of Ladle and Tundish • 1 set Billet Molder • 1 set Rolling and Shearing Mill Finished Product Storage Facility • 30 MVA Sub-Station 1 • 1 35 MVA Transformer • 2 Cabinet type Control Room • 1 standby genset

	<p>Iba pang kagamitan at pasilidad</p> <ul style="list-style-type: none"> • 1 Office Admin Building • 6.0 cu.m /day Water Supply Facility • 20 cu.m Overhead Water Tank • Drainage System • Weighing Scale • Parking and Open Yard Pollution Control Facilities • 3 units Dust Collector System • 1 Filter Bag Dust Collector (Impulse Dust Cleaner Baghouse) • 1 Cooling Water Pond (5 cu.m/hr) • 2 to 3 Cooling Water Tank (Tank A: 2,400 cm Tank B: 3,400 cm) • 1 Solid Waste Management Facility • 1 Toxic and Hazardous Waste Facility • 1 Three-chambered Septic Tank
<p>Proponent/Nagmamay-ari ng Proyekto</p>	<p>PHILIPPINE SANJIA-STEEL CORPORATION</p>
<p>Pangunahing Address</p>	<p>Zone 1, Nabulod, Baluarte, Tagoloan, Misamis Oriental 9000</p>
<p>Kinatawan ng Proyekto</p>	<p>Mr. Zheng Feng Quan <i>General Manager</i></p>
<p>Pollution Control Officer</p>	<p>Ms. Flora Mae Padera Leuterio.florame95@gmail.com 090676885066</p>
<p>Uri ng Proyekto (Base sa EMB Memorandum Circular 2014-005)</p>	<p>Heavy and Other Processing/Manufacturing Industry</p> <p style="text-align: center;">1.4 Smelting Plants > 15,000 MT annual rate production</p>

Permit	Ahensiya	Petsa ng Permit
SEC & Articles of Incorporation	Securities and Exchange Commission	Oct. 17, 2018
Amended Articles of Incorporation	Securities and Exchange Commission	May 4, 2019
Secretary's Certificate of PHIVIDEC	PHIVIDEC Industrial Authority	Oct. 24, 2018
Zoning Certificate/Locational Clearance	PHIVIDEC Industrial Authority	July 4, 2019
Environmental Compliance Certificate (ECC-R10-1901-0003)	EMB REGION 10	Jan. 8, 2019
Kalagayan ng Proyekto	Operational (pangkasalukuyang tumatakbo)	
Dami ng Manggagawa	Mga 300 direct and indirect vocational at technical na manggagawa ang kukunin para sa pagpapatakbo ng planta	
Kabuuang Halaga ng Proyekto	PhP 500,000,000.00 (estimate)	

II. PAGDODOKUMENTO NG PROSESO PARA SA EIA

A. PANGKAT NG EIA

Ang pag-aaral na ito ay binubuo ng pangkat na may teknikal na kaalaman sa pag-aaral ng kalikasan, panlipunan at alituntunin ng batas ayon sa paghahanda ng EIA:

Table ES-1. EIA Team

NAME OF PREPARER	FIELD OF EXPERTISE	EMB REGISTRATION No.
Jay Richard R. Siasoco	EIA Process, Project Management	-

Jose Paulo E. Devanadera	EIA Process, Project Management	IPCO-52
Ernesto M. Flores	EIA Process, Project Management	IPCO-129
Romel D. Sia	EIA Process	-
Proserfino Comendador	EIA Process	-
Alan De Gala	EIA Process	-
Russel Babatido	EIA Process	-

B. EIA STUDY SCHEDULE AT AREA

Ang pag-aaral na ito ay nakatuon sa mga lugar at mga tao na direktang maapektuhan ng proyekto o tinatawag na Direct Impact Area (DIA). Ang sakop na mga barangay na tinatawag na DIA ay ang Barangay Baluarte, Macajalar Bay, Tagoloan River and Kitrol Depot.

Ang mga sumusunod ay ang listahan ng magaganap na aktibidad para sa proyekto. Ang mga ito ay maaaring mabago ayon sa magiging mungkahi ng Review Committee.

Table ES-2. EIA Schedule

Activity	Date
Information, Communication and Communication	July 23, 2019
Technical Scoping	August 31, 2020
Public Scoping	November 03, 2020
Conduct of Baseline Studies and EIA Report Preparation	February 2020 to May 2021
First EIARC Meeting	
Public Hearing	
Final EIARC Meeting	

Batay sa pag-aaral, ang proyekto na lalampas sa 1000-metrong sakop ng DIA ay tatawag Indirect Impact Area (IIA). Ang proyekto (subject area) ay maaaring puntahan gamit ang lahat ng uri ng sasakyan mula sa National Highway. Kasama sa isasaalang-

alang sa pag-aaral na ito ang aspeto ng kalupaan, katubigan, hangin, at mamamayan.

Ang proyekto ay malapit sa pamayanan ng Macajalar Bay at Tagoloan River, at iba pang industriya tulad ng Filinvest Development Corporation at Kitrol Depot.

Table ES-3. Paglalarawan ng mga lugar na maapektuhan ng proyekto

LUGAR	LAYO MULA SA LOKASYON NG PROYEKTO (km)	DELINEATION
Barangay Baluarte Community-Host Barangay	0.5	Direct Impact Area
FILINVEST DEVELOPMENT CORP.	0.8	Direct Impact Area
Baluarte Elementary School	0.9	Direct Impact Area
Tagoloan Community College	1.1	Indirect Impact Area
Municipal Hall	1.5	Indirect Impact Area
KITROL Depot	0.4	Direct Impact Area
Tagoloan River	0.2	Direct Impact Area
Macajalar Bay	0.4	Direct Impact Area

EIA Methodology

Ang EIA ay inihanda base sa pamantayan at pamamaraan sa ilalim ng Philippine Environmental Impact Statement System and its Implementing Rules and Regulation (DAO 2003-30).

Sa pagsisimula ng Environmental Impact Statement (EIS), ang EIA Team ay nangalap ng pangunahin at pangalawang datos para maging batayan sa magiging epekto ng proyekto. Ang pangunahin datos ay nagmula sa on-site investigation at field sampling/surveys, habang ang pangalawang datos naman ay nagmula sa proponent ng proyekto, sa sangay ng gobyerno at sa mga nakasulat ng pag-aaral patungkol sa katulad na proyekto.

Ang mga sumusunod ay ang naging resulta ng sampling/assessment methodologies na ginawa ng EIS Team:

Table ES-4. EIA Methodology

EIA Study Module		Methodology
Land	Land Use	Gathering and review of Secondary data
	Natural Hazards	Gathering and review of Secondary data
	Pedology	Grab sampling and laboratory analysis
	Terrestrial	Transect walk, quadrat sampling and trapping
Water	Hydrology and Hydrology	Gathering and review of secondary data
	Water Quality	In-situ measurements; grab sampling and laboratory analysis
	Freshwater Ecology	Collection of samples using nets
Air and Noise	Meteorology	Gathering and review of secondary data
	Air and Noise Quality	High volume samplers, Personal Sampler and sound level meter for noise and review of monitoring data
People	Socio-economic Profile	Gathering and review of secondary data Key informant interviews Perception survey Focus group discussions

C. PUBLIC PARTICIPATION

ACTIVITIES Information, Education

Campaign (IEC)

Bilang pagsunod sa alituntunin ng DAO 2017-15, ang Public Participation para sa Information Education Campaign (IEC) ay naisagawa noong July 23, 2019 sa pamamagitan ng General Assembly at Consultation.

Perception Survey

Ang perception survey or interview ay isinagawa noong July 23, 2019 sa pamamagitan ng pagbabahay-bahay upang malaman ang kalagayang panlipunan ng mga maapektuhan ng proyekto base sa naunang nabanggit na social impact areas. Ito din ay naging daan upang makakuha ng datos sa kaalaman ng mga tao sa proyekto at ang kanilang pagtanggap sa pagpapalawak ng proyekto.

Public Scoping

Noong November 3, 2020, isinagawa ang Public Scoping sa Baluarte Covered Court, Barangay Baluarte, Tagoloan, Misamis Oriental. Ang public scoping ay naglalayon na ipahatid sa mga mamamayan ng nabanggit na Barangay at magiging epekto at benepisyong ng proyekto, at bigyan sila ng pagkakataon na masabi ang kanilang saloobin at agam-agam patungkol sa proyekto. Kasama din sa mga nakilahok ang mga stakeholders at pamunuan ng Barangay Baluarte.

Ang sumusunod ay ang nagging buod ng pag-uusap sa naganap na Public Scoping:

- Uri ng pugon (furnace) na gagamitin
- Benepisyong sa Barangay Baluarte, lalo na sa pangkabuhayan
- Mga hakbang upang maiwasan ang ingay, alikabok at iba pang uri ng polusyon mula sa planta
- Buwis na magmumula sa planta na ilalaan sa LGU
- Pagbuo ng Multi-partite Monitoring Team

Public Hearing

Ang Public Hearing ay isasagawa upang ipakita ang naging resulta ng EIA Report sa mga stakeholders pagkatapos dumaan sa procedural screening ng EIA Case Handler at pagsusuri ng EIA Review Committee.

Issuance of Notice of Violation

Ang Philippine Sanjia Steel Corporation ay nakakuha ng Environmental Compliance Certificate (ECC-R10-1901-003) noong January 8, 2019 sa EMB Region X para sa kanilang Steel Mill project na may annual capacity na 28,000 MT reinforcing bars sa

loob ng 22.5575 ektaryang lupa ng Phividec Industrial Authority sa Buluarte, Misamis Oriental. Kasama din dito ang kanilang pantalan na may sakop na 1.2 ektarya.

Nagkaroon ng field investigation ang EMB Central Office noong May 27, 2021 at doon nasuri nila na ang PSSC ay nagkaroon ng sumusunod na paglabag:

- a) Pursuant to Section 4 of PD 1586 states that “No person, partnership or corporation shall undertake or operate any such declared environmental critical project are without first securing an Environmental Compliance Certificate issued by the President or his duly authorized representative” for constructing the facility more than the allowable capacity of the plant;
- b) Pursuant to Section 1, Rule XIX of DENR Administrative Order No. 2004-26, amending DAO No. 2000-81, Implementing Rules and Regulations of RA 8749 or the Philippine Clear Air Act of 1999, which provides that “All sources of air pollution must have a valid Permit to Operate issued by the EMB Regional Director”; and
- c) Non-implementation of immediate replanting as indicated in the Environmental Management Plan. The PSSC settle the fine amounting to One Hundred Fifty Thousand Pesos (Php 150,000.00) for violating the above violation on 22 June 2021.

III. EIA SUMMARY

Buod ng mga Alternatibong Proseso/Teknolohiya patungkol sa Siting, Technology Selection/Operation Processes at Design

Siting: Ang environmental characteristics ay isa sa mga isinaalang-alang sa pagpili ng magiging lokasyon ng planta. Ang lokasyon ay nasa PHIVIDEC Industrial Estate na masasabing malinis at patag. Dahil dito, walang inaasahang pagguho ng lupa sa nasabing lugar. Ang iminungkahing lokasyon ng pasilidad ng proyekto ay sinuri sa mga tuntunin ng geohazard susceptibility base sa impormasyon ng mga ahensiya ng gobyerno tulad ng Mines and Geosciences Bureau (MGB) at Philippine Institute of Volcanology and Seismology (PHIVOLCS). Sa pangkalahatan, mababa ang posibilidad ng lugar upang magkaroon ng earthquake-triggered slope failure at rainfall-triggered slope failure. Nakita din sa pag-aaral na mababa din ang posibilidad na magkaroon ng seismic vulnerability, liquefaction potential, ground-shaking at liquefaction susceptibility ang proyekto.

Technology Option and Design: Ang proyekto ay gumagamit din ng pinakabagong teknolohiya na Induction Furnace Smelting Technology na kung saan ay nangangailangan lamang ito ng mas mababang enerhiya at mababawasan ang paglabas ng air pollution. Ito ay kung ihahambing sa lumang teknolohiya na electric arc furnace na kung saan ay mas malakas ang idudulot na air pollution at kailangan ng mas malaking supply ng kuryente.

Ang Air Pollution Control Device tulad ng Umbrella-Type Dust Collection System na ilalagay sa bawat pugon (furnace) at ang Impulse Dust Cleaner (Baghouse) ay mayroong libo-libong filter boxes na maaring magsala ng maliliit na bagay hanggang 90% na manggagaling sa usok at alikabok ng planta.

Integrated Summary of Impacts and Target Efficiencies

Ang pagbubuod ng pinagsama-samang maaring maging epekto, pamamaraan ng mitigasyon at kahusayan ng layunin (target efficiency) ay nasa sumusunod na talaan:

Table ES-5. Integrated Summary of Impacts and Target Efficiencies

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
I. PRE-CONSTRUCTION PHASE				
Permitting	Land Use	Non compatibility with the existing land use	Secure necessary permits, zoning clearance, foreshore lease agreement and other appropriate licenses	100% compliance to zoning certificate and foreshore lease agreement. No resettlement since the Project Site is uninhabited.
Stakeholder Consultations	The People	Social non-acceptability of the Project	Conduct Information Education Campaign (IEC) campaigns and information disclosure	100% adherence to stakeholder consultations as required by DAO 2017-15 guidelines on the public consultation
II. CONSTRUCTION PHASE				
Land clearing and demolition of some existing structures	The Land	Scraps Construction debris / Soil erosion	Good housekeeping Provision of Material Recovery Facility Sell scraps Water spraying for dust management Proper construction methods and	100% to comply with the applicable guidelines under the National Structural Code of the Philippines 100% Adherence to the Ecological Solid Waste Management Act (RA 9003)

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
			procedures and implementation of Slope protection with vegetation when necessary	
	The Air	Dust	Road water sprinkling Provision of nursery Tree planting	100% adherence to the Philippine Clean Air Act of 1999 (NAAQGV and NAAQS). 100% maintenance of pollution control devices.
		Noise	Proper maintenance of construction equipment and vehicles Use of PPE, i.e. earmuffs when needed	100% adherence to the 1978 NPCC Noise Standards
Transport and delivery of construction materials General construction activities	The People	Safety	Strict implementation of DOLE DO 13-98 <ul style="list-style-type: none"> • Health and safety policies including IATF protocols for covid-19 pandemic • Employee safety inspections and toolbox meetings • Regular APE and use of PPEs • First aid training • Provision of ambulance and Clinic Provision of Fire Fighting System	100% compliance to DOLE 13-98.

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
		Employment	Employment generation Local Hiring Support in Alternative Livelihood trainings	100% compliance to local hiring and provision of livelihood trainings.
		Traffic	Traffic management plan	100% compliance to the TMP in coordination with the LGU.
Wastewater operations and storage	The Water	Domestic waste discharges	Use of Portable toilets	100% to comply with DAO 2016-08 Water Quality Guidelines (WQG) 100% Adherence to the Ecological Solid Waste Management Act (RA 9003).
		Used oil	Provision of a Hazardous Waste Area with proper labeling, segregation and storage of wastes Transport, treatment and disposal by DENR accredited third party contractors	
Solid waste accumulation	The Land	Solid waste pollution due to garbage	Good housekeeping Provision of a Material Recovery Facility Recycle Sell recyclables Reuse	100% implementation of the proposed mitigations. 100% to comply with DAO 2016-08 Water Quality Guidelines (WQG) 100% Adherence to the Ecological Solid Waste Management Act (RA 9003).

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
			Septic Vaults Disposal thru DENR accredited 3rd party Proper hauling/ conveyor from vessel to wharf	
		Generation of sludge from septage	Septic tank management by desludging	
		Contamination and improper management of hazardous waste materials	Provision of Hazardous Waste area with proper labeling, segregation and storage of wastes Management of transformer oil to prevent spills. Storage rooms should have concrete containment. The transformer room/ area should also be designed to prevent accidental spills to contaminate soil in the area. The storage room also for used transformer oils should have containment - this is our Hazmat Storage Facility.	

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
			Transport, treatment and disposal of DENR accredited third party contractors	
Operation of rolling mill facility, furnace, and general operations	The Water	Water pollution from run-off and domestic wastes	Construction of rainwater cisterns and collection ponds Regular ambient and effluent water quality monitoring using DENR standards Domestic wastewater management by connecting it to the water treatment facility Zero discharge/effluent	100% to comply with DAO 2016-08 Water Quality Guidelines (WQG)
		Use of river water for make up water	Address resource use competition; secure water permit	100% compliance to water permit.
	The Air	Air pollution from fugitive dusts,	65 meters stack height Training on power equipment and vehicle use and speed	100% adherence to the Philippine Clean Air Act of 1999 (NAAQGV and NAAQS). 100% maintenance of pollution control devices.

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
		equipment and vehicles	Proper maintenance, designation of no idling zone Routine plant maintenance and good house keeping Use of low sulfur fuel (LSFO or mixing with Diesel) Use of enclosures, barriers and buffer zones Implementation of reforestation and Carbonsink Program Insulate structures Installation of dust collector for each furnace and properly connect and install impulse Dust Collector (Baghouse)	
		Greenhouse gas emission	Implementation of a reforestation and carbon-sink / greenhouse gas reduction program	

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
	The People/ Noise	Noise from equipment and vehicles	Buffer zone and tree planting Enclosed facility Provision of AC motors Scheduling certain high noise emitting works to more acceptable times of day Use of the most environmentally acceptable equipment which is properly maintained and silenced Enclosures for sources of noise Provide high fence within the plant's perimeter Provide a buffer zone on the adjoining boundaries Planting of trees on the buffer zone and plant's perimeter that will serve as noise barrier/Acoustic screening. Use of the least intrusive method of work	100% adherence to the 1978 NPCC Noise Standards

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
			<p>Proper instruction and supervision of staff</p> <p>The following noise control measures will also be applied for the protection of employees working on site as well as the nearest sensitive receptors:</p> <ul style="list-style-type: none"> • It is advisable that electrically powered equipment should be preferred, where practicable, to mechanically powered alternatives. If mechanical powered plant will be used, it should be fitted with suitable silencers and mufflers • Defective equipment/parts with abnormal noise and/or vibration will be either repaired replaced • Schedule use of equipment/machines emitting high noise like pile driver during daytime operation while, 	

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
			minimize use during nighttime operation; • All employees working on site will be provided with proper ear protectors The Contractor shall at all times comply with all current statutory environmental legislation	
	The People	Health and safety hazards	Health and safety policies Employee safety inspections and toolbox meetings Regular APE and use of PPEs First aid training Provision of ambulance and Clinic Provision of Fire Fighting System	100% compliance to DOLE 13-98 and workplace environment guidelines.
		Employment and positive benefits	Employment generation Local Hiring	100% compliance to local hiring

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
			Support in Alternative Livelihood trainings	
Demolition of structures	The Land	Solid waste pollution/ contamination brought about by scraps and debris from demolished structures	Good housekeeping Planting of endemic species or reforestation	100% compliance to RA 9003 or the Ecological Solid Waste Management Act.
		Change in land use	Adaptation to the industrial land use of the new project	100% compliance to future land use.
		Oil spill	Conduct of Environmental Site Assessment (ESA) prior to abandonment	100% compliance to abandonment plan following the requirement of the revised procedural manual of DAO 2003-30
	The Water	Water pollution/ contamination	Conduct of Environmental Site Assessment (ESA) prior to abandonment	100% to comply with DAO 2016-08 Water Quality Guidelines (WQG) except for those that exceed the limit.

PROJECT ACTIVITIES	ENVIRONMENTAL COMPONENT LIKELY TO BE AFFECTED	POTENTIAL IMPACT	PROPOSED MITIGATING MEASURES	TARGET EFFICIENCY
	The Air	Air pollution because of dusts from demolished structures	Sprinkling of water	100% adherence to the Philippine Clean Air Act of 1999 (NAAQGV and NAAQS).
		Noise pollution from structures being demolished	Scheduling to daytime activities Wear PPE	100% compliance to the proposed mitigations. 100% adherence to the 1978 NPCC Noise Standards.
Plant closure or operation stoppage	The People	Loss of Jobs	Payment of legal social benefits Retrenchment package Labor support programs	100% compliance to the provisions of DOLE.