

A. 1. PROJECT BASIC INFORMATION

Name of Project:	TAGANITO HYDROMETALLURGICAL PROCESSING PLANT
Name of Proponent:	TAGANITO HPAL NICKEL CORPORATION
Address:	Taganito Special Economic Zone, Brgy. Taganito, Claver, Surigao del Norte
Project Cost:	\$ 1.3 B
Project Life:	30 years
Legal Basis:	
a. Mineral Production Sharing Agreement Date Issued	MPSA No. 266-2008-XIII-SMR – c/o TMC JUNE 18, 2009
b. Environmental Compliance Certificate Date Issued	ECC CO. 1403-0007 (transferred from TMC to THPAL) JANUARY 14, 2015
c. Mineral Processing Permit Date Issued	MPP No.: 14-2013-XIII SEPTEMBER 24, 2013
d. Ecozone Export Enterprise	Taganito Special Economic Zone REG. No. 10-02 JANUARY 7, 2010
Employees (present number):	2,617 as of May 2016 (this Include contractor employees)
Processing Method:	HIGH PRESSURE ACID LEACH PROCESS
Process Commodity/ies:	Ni and Co mixed sulfides Hematite & Chromite
Pollution Control Officers:	ARTURO T. MANTO VP- Environment and External Affairs COA No. 2015-RXIII-025 ALEX C. CANONOY
	COA No. 2015-RXIII-023 LEMUEL S. GAMBIN COA No. 2015-RXIII-024
	0 5/110. 2010 10 Mil 02 1
Contact Persons:	TAKESHI KUBOTA President
	MUNEKAZU KAWATA EVP/Plant Manager
	MAKOTO TAKAHASHI EMO/CIVIL Acting Manager
	ALEX C. CANONOY MEPEO/EMO Section Head



A.2 COMPANY BACKGROUND

Taganito HPAL Nickel Corporation is a sister company of Coral Bay Nickel Corporation, the first successful company in the world to employ the efficient pressure acid leaching technology to turn waste ore into something of high commercial value. It is also a majority-owned subsidiary of Sumitomo Metal Mining Co., Ltd. which is based at 11-3 Shimbashi 5-Chome, Minato-ku, Tokyo, Japan. THPAL was incorporated in the Philippines on August 22, 2008 to engage mainly in the manufacture and export of mixed sulphide (Nickel and Cobalt). It started commercial operations in September 2013.

The Taganito HPP project was issued an Environmental Compliance Certificate by the DENR on September 3, 2008. The ECC was first amended on September 3, 2009 which covered the transfer of location of the HPP and all associated facilities from brgy. Hayanggabon to brgy. Taganito. The ECC which was issued on September 3, 2009 was again amended Last January 14, 2015 for the expansion projects. On April 24, 2015, the ownership of the ECC issued on January 14, 2015 was transferred to Taganito HPAL Nickel Corporation from TMC.

The company is a registered Ecozone Export Enterprise located at Taganito Special Economic Zone, Brgy. Taganito, ClaverSurigaodel Norte.

PROJECT LOCATION Municipality of Claver, Surigao del Norte Brgys Taganito, Hayanggabon, Urbiztondo, & Cagdianao (Population: 2010 NSO Census ~ 8760) FACIFIC OCEAN MALAYST MALAYST AND SURIGAD S



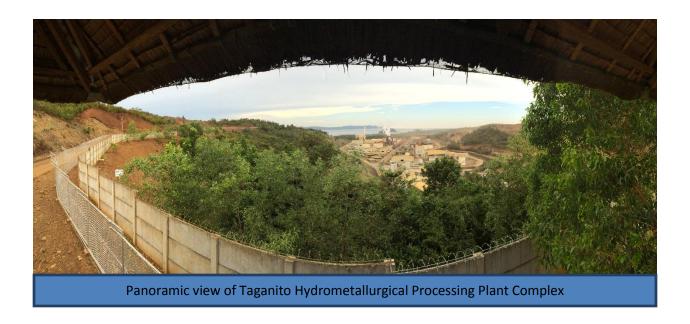
A.3PROJECT DESCRIPTION

The Hydrometallurgical Processing Plant (HPP) is designed to produce 30,000T of Nickel and 2,640T of Cobalt as Mixed Sulfides (MS) at high recovery rates by the acid leaching of low-grade lateritic ore. This low-grade ore is supplied by Taganito Mining Corporation. HPP uses sulfuric acid at high pressure and temperature in an autoclave. The process selectively leaches Nickel and Cobalt by sulfuric acid, control the leaching of iron, aluminum and silicon and produce a solution of nickel sulfate and cobalt sulfate. The solution is transformed into Nickel/Cobalt Mixed Sulfide by reacting with hydrogen sulfide. The stages of the processing are (1). Ore Preparation; (2) High Pressure Acid Leach; (3) Pre–Neutralization / Countercurrent Decantation; (4) Neutralization; (5) Zinc Removal; (6) Mixed Sulfide Production; (7) Final Neutralization.

B. PHOTOGRAPHS







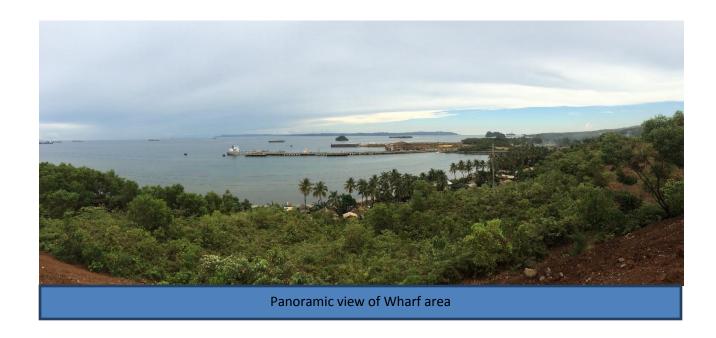












C. PERMITS AND CLEARANCES

Date Issued	Permit/Clearance	Status (Date of Expiry)
	ECC	
January 14,	Hydrometallurgical Processing	
2015	Plant (HPP) Amended ECC (ECC	
	CO-1403-007)	
January 29,	THPAL Staff Housing (ECC No.	
2015	ECC-R13-15-1-0011)	
January 13,	THPAL Sanitary Landfill (ECC No.	
2016	ECC-R13-1601-0001)	
September	Mineral Processing Permit (MPP	Every 5 years renewal (September 23,
24, 2013	No. 14-2013-13)	2018)
	Wastewater Discharge Permits	
December 1,	Settling Pond No 1. (Permit No.	Every 5 years renewal (December 1,
2014	2014-WDP-L-1367-288)	2019)
December 1,	Settling Pond No 2. (Permit No.	Every 5 years renewal (December 1,
2014	2014-WDP-L-1367-287)	2019)
December 1,	Settling Pond No 3. (Permit No.	Every 5 years renewal (December 1,
2014	2014-WDP-L-1367-286)	2019)
December 1,	Settling Pond No 4. (Permit No.	Every 5 years renewal (December 1,
2014	2014-WDP-L-1367-285)	2019)



Date Issued	Permit/Clearance	Status (Date of Expiry)
December 1,	Settling Pond No 5. (Permit No.	Every 5 years renewal (December 1,
2014	2014-WDP-L-1367-282)	2019)
December 1,	Sewerage Treatment Plant	Every 5 years renewal (December 1,
2014	(Security Barracks) (Permit No.	2019)
	2014-WDP-L-1367-284)	,
August 24,	Sewerage Treatment Plant	Every 5 years renewal (August 24,
2012	(Plantsite) (Permit No. 2012-WDP-	2017)
	H-1367-104)	,
August 24,	Sewerage Treatment Plant	Every 5 years renewal (August 24,
2012	(Dormitory) (Permit No. 2012-WDP-	2017)
	H-1367-105)	,
August 24,	Sewerage Treatment Plant (Wharf)	Every 5 years renewal (August 24,
2012	(Permit No. 2012-WDP-H-1367-	2017)
	105)	,
December 1,	Tailings Storage Facility (Permit No.	Every 5 years renewal (December 1,
2014	2014-WDP-L-1367-283) `	2019)
January 6,	Hazardous Waste Storage Building	Every 5 years renewal (January 06,
2015	Oil & Water Separator (2015-WDP-	2020)
	A-1367-004)	,
	Permit to Operate	
January 06,	2 Units Identical Package Boiler(Every 5 years renewal (January 06,
2015	Permit No. 2015-POA-A-1367-003)	2020)
December 8,	2 Units Deutz-Weichai Diesel	Every 5 years renewal (December 8,
2014	Engine Generators Set (Permit	2019)
	No.2014-POA-L-1368-280)	
December 1,	2 Units Kohler Generator Set	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-277)	2019)
December 1,	2 units Autoclave w/ 2 units	Every 5 years renewal (December 1,
2014	Scrubber System (Permit No. 2014-	2019)
	POA-L-1367-276)	
December 1,	7 units Acid Mist Eliminator (Permit	Every 5 years renewal (December 1,
2014	No. 2014-POA-L-1367-276)	2019)
December 1,	2 Units Fume Scrubber & 1 Unit	Every 5 years renewal (December 1,
2014	Dust Collector (Permit No. 2014-	2019)
	POA-L-1367-276)	
December 1,	1 Unit Process Gas Scrubber;1 Unit	Every 5 years renewal (December 1,
2014	Emergency Gas Scrubber, 1 Unit	2019)
	Gas Leak Scrubber & 1 Unit Tank	
	Vent Scrubber (Permit No. 2014-	
	POA-L-1367-276)	
December 1,	1 Unit Filter Bags and Hopper Dust	Every 5 years renewal (December 1,
2014	Catcher (Permit No. 2014-POA-L-	2019)
	1367-276)	_
December 1,	1 Unit Filter Bags and NaOH	Every 5 years renewal (December 1,
2014	Scrubber System (Permit No. 2014-	2019)
	POA-L-1367-276)	



Date Issued	Permit/Clearance	Status (Date of Expiry)
December 1,	2 Units Vent Scrubber (Permit No.	Every 5 years renewal (December 1,
2014	2014-POA-L-1367-276) `	2019)
December 1,	1 Unit 312 kVA Volvo Penta Genset	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,	2 units 300 kVA Komatsu Gensets	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,	1 Unit 200 kVA Komatsu Genset	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,	5 Units 150 kVA Mitsubishi Gensets	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,	5 Units 125 kVA Mitsubishi Gensets	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,	14 Units 90 kVA Hino Gensets	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,	8 Units 45 kVA Hino Gensets	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,	8 Units 25 kVA Isuzu Power	Every 5 years renewal (December 1,
2014	Gensets (Permit No. 2014-POA-L-	2019)
	1367-278)	
December 1,	9 Units 25 kVA Airman Isuzu	Every 5 years renewal (December 1,
2014	Gensets (Permit No. 2014-POA-L-	2019)
	1367-278)	
December 1,	5 Units 45 kVA Nissya Hino	Every 5 years renewal (December 1,
2014	Generator Sets (Permit No. 2014-	2019)
	POA-L-1367-278)	
December 1,	1 Unit 60 kVA Generator Set	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,	12 Units 90 kVA Nissya Generator	Every 5 years renewal (December 1,
2014	Sets (Permit No. 2014-POA-L-	2019)
	1367-278)	
December 1,	3 Units 125 kVA Denyo Mitsubishi	Every 5 years renewal (December 1,
2014	Generator Sets (Permit No. 2014-	2019)
	POA-L-1367-278)	
December 1,		Every 5 years renewal (December 1,
2014	Generator Sets (Permit No. 2014-	2019)
Danasa A	POA-L-1367-278)	Francis Communication (Decomplism 4
December 1,	1 Unit 200 kVA Dinyo Komatsu	Every 5 years renewal (December 1,
2014	Generator Set (Permit No. 2014-	2019)
December 1,	POA-L-1367-278) 3 Units 300 kVA Denyo Komatsu	Every 5 years renewal (December 1,
December 1, 2014	Generator Sets (Permit No. 2014-	2019)
2014	POA-L-1367-278)	2019)
December 1,	1 Unit 45 kVA Hino Genset (Permit	Every 5 years renewal (December 1,
December 1, 2014	No. 2014-POA-L-1367-278)	2019)
December 1,	1 Unit 60 kVA Denyo Generator Set	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
2017	1 (1 0111111 140. 20 17 1 OA-L-1001 210)	2010/



Date Issued	Permit/Clearance	Status (Date of Expiry)
December 1,		Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,		Every 5 years renewal (December 1,
2014	Genset (Permit No. 2014-POA-L-	2019)
	1367-278)	20.07
December 1,	,	Every 5 years renewal (December 1,
2014	Gensets (Permit No. 2014-POA-L-	2019)
	1367-278)	20.07
December 1,	,	Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,		Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,		Every 5 years renewal (December 1,
2014	(Permit No. 2014-POA-L-1367-278)	2019)
December 1,		,
2014	No. 2014-POA-L-1367-278)	2019)
December 1,		,
2010	Generator's Registry No. (ID	
	No.16-67-0078)	
	Philippine Inventory of	
	Chemicals and Chemical	
	Substances (PICCS) Certification	
October 12,	Sulfuric Acid w/ CAS No. 7664-93-9	
2012	(Code No. PICCS-2012-13-001)	
October 12,	Sodium Hydroxide w/ CAS No.	
2012	1310-73-2 (Code No. PICCS-2012-	
	13-002)	
October 12,		
2012	1327-41-9 (Code No. PICCS-2012-	
	13-003)	
October 12,	Sodium Hypochlorite w/ CAS No.	
2012	7681-52-9 (Code No. PICCS-2012-	
	13-004)	
February 11,		
2013	1305-62-0 (Code No. PICCS-2013-	
	13-001)	
February 11,		
2013	Chloride w/ CAS No. 26062-79-3	
F	(Code No. PICCS-2013-13-002)	
February 11,	Methyl alcohol w/ CAS No. 67-56-1	
2013	(Code No. PICCS 2013-13-001)	
February 11,	`	
2013	No. PICCS-2013-13-004)	
February 11,		
2013	10-5 (Code No. PICCS-2013-13-	
	005)	



Date Issued	Permit/Clearance	Status (Date of Expiry)
February 11,	Sodium Hydrosulfide w/ CAS No.	
2013	16721-80-5 (Code No. PICCS-	
	2013-13-006)	
May 18, 2016	CCO Registration Certificate for	
	PCB's (CCO No. CCO-PCB-R13-	
	TAG-183)	
	OTHER PERMITS/CLEARANCES	
	Certificate of Approval	
February 24, 2016	a. Annual Environmental Protection and Enhancement Program 2016	RXIII-AEPEP-2016-0010
March 10, 2016	b. Annual Social Development and Management Program 2016	RXIII-ASDMP-2016-005

D. ENVIRONMENTAL PERFORMANCE

Date	Activity	Summary of Findings
October 27-29, 2011	MMTInspection	1. Construction activities by contractor's ad sub-contractors are on-going. Structural accomplishments of various facilities are as follow: • HPP – 21% • TSF – 33% • Wharf- 100% • Coal-fired Power Plant
		 Diversion channel (5m x 2.5m) of Hayanggabon River/Pangabhion River to bypass the tailings and discharge directly to decantation pond was estimated to be 9 kilometers. 36 drums of used oil ready for transport by Gulf Oil properly kept at used oil storage building at Core Burrow area of SMCC. Construction of used oil water separator just started. 2 hectares of sporadic areas of planted slope along the Plant site



Date	Activity	Summary of Findings
		October 3, 2011 incident. 5. Mangrove plantation intended for National greening Program (NGP) covering 7 has. At Tayaga and enrichment planting of 3 has. At Bagakay in Municipality of Claver is 100% completed. Estimated survival rate is 90%. 6. Oil spill from submerge cargo vessel and tugboats contained by installing spill boom. On-going recovery of oil conducted by SMCC and THPAL personnel. Coast Guard personnel supervised the activity. 1 ½ drums of oil already recovered. 7. Burned equipment was observed at THPAL wharf area and accordingly subject for investigation of the Insurance Company. 8. Good housekeeping was observed at EEI campsite. 9. Extra water drums for fire used are not covered that might be potential breeding ground for mosquitoes at SMCC campsite. 10. Drainage outlet at the SMCC carwash area in front of the Central Site Office was clogged with various debris and collector sump was already filled with silt
April 11-13, 2012	MMT Inspection	materials, 1. Construction activities by 7 contractors and sub-contractors ongoing. Structural accomplishments of various facilities are as follow: • HPP – 30% • TSF – 48% • Wharf - 100% • Coal-fired Power Plant – 31% • Over-all accomplishment - 52% WHARF 2. The remaining submerged boat already floated on the evening of Aprl 11, 2012.



Date	Activity	Summary of Findings
		 Vessel carrying two units' autoclave with carrying capacity of approximately 1,000 cubic meters arrived early of April 12, 2012 ready to be transported to the site. Good housekeeping was observed at the area.
		PLANTSITE 5. Water flowing along cross section of upstream Taganito River and batching plant. However, discoloration was observed in comfluence of Daku Creek and Taganito River which is allegedly attributed to SP Phase 3 expansion project of TMC starting November 11, 2011. The activity was temporarily stopped sue to frequent rains in the area. 6. Construction of TSF is 48% completed. Hayanggabon River was permanently diverted for the construction of tailings dam,
		 CORE BURROW AREA 7. 23 drums containing used oil at core burrow yard ready for disposal for accredited transporter/treater. 8. Traces of oil and fuel were observed along the discharge canal of core burrow area. 9. Some new and used tires are not covered.
		SOLID WASTE DISPOSAL AREA 10. Collected solid waste at disposal area was noted mixed, indicating that there is no segregation at source.
		SMCC CENTRAL OFFICE 11. Sediment pit along the national highway was observed full of silt material. 12. Concreted Sidewalk complete with wooden rails was noted along



Date	Activity	Summary of Findings
	·	national highway with total length of approximately 440 meters and with of 1.5 meters.
		2011 NGP 13. Survival rate of NGP mangrove plantation at Brgy. Tayaga, Calver with 7 has. Was approximately 60% and the enrichment planting of 3 has. was approximately 80%. 14. No signage provided for the protection of the plantation. COMPLIANCE TO THE COMMITMENT ON THE NOV ISSUED LAST FEBRUARY 6, 2012 15. Commitment 1, mechanical dredging at Hayanggabon River was already 90% accomplished based on the original survey. 37 household settling along the river
		bank will be resettled under THPAL SDMP fund. 16. Commitment 2, construction of rock-fill dike with grouted riprap at either side of the embankment is 10%. Boulders are collected from PGMC area by the contractor. 17. Commitment 3, riprapping of hillside canal and open areas is 5% completed with 9 kilometers target.
		OTHERS 18. Newly constructed settling pond at ore preparation area has no discharge permit yet.
September 26- 28, 2012	MMT Inspection	1. Construction activities by 7 contractors and sub-contractors on-going. Structural accomplishments of various facilities are as follow: • HPP – 80% • TSF – 95% • Coal-fired Power Plant – 90% • Over-all accomplishment - 88%



Date Activity	Summary of Findings
- Indiana,	PLANTSITE
	 Road, drainage canal and settling ponds are well maintained. Installation of metal fence with the height of 2 meters and earth flat forming and riprapping along Taganito River on-going. Warning signages visible at critical areas.
	TSF AREA
	 Construction of flood gate at hillside-1 stream line no.9 completed to allow turbid water to flow at tailings dam during heavy rains. On-going construction of two (2) CR and lay-outing of additional warehouse at core burrow area were observed. Good housekeeping at Core Burrow area was observed. Warning signages visible at critical areas.
	CONTRACTOR'S CAMP SITE
	9. Good housekeeping at TJCP and SMCC was observed with sufficient number of garbage bins around the camp site. However at ATS camp site, domestic wastes observed scattered along the drainage canal with no drainage basin provided.
	NURSERY
	10. Forest and fruit seedling production of various species on-going. Total seedlings stock 4,383 pieces. Some seedlings do not bear appropriate label.
	WHARF 11. Area well-maintained. Installation of pipelines (acid and supernatant) observed.
	STATUS OF NOV ISSUED ON



Date	Activity	Summary of Findings
		FEBRUARY 6, 2012
		 Commitment 1, mechanical dredging at Hayanggabon River was already 100% accomplished. Commitment 2, construction of rock-fill dike with grouted riprap at either side of the embankment is 100% completed. Commitment 3, riprapping of hillside canal and open areas is 90% completed with 9 kilometers target.
		OTHERS 12. Delineated 1 hectare for MMT Tree Park. 30 Mango seedlings planted and provided with tree guards by the members. 13. PEZA representative actively participated the MMT inspection.
April 3-5, 2013	MMT Inspection	Plant site and its facilities is 97%
		completed. 1. Test run of the Plant is tentatively by 2 nd quarter 2013 as per THPAL Representatives. 2. Some stretches of gabions installed opposite to the Plant site were heavily damaged. 3. Intake dam across Taganito River was already full of silt. 4. The diverted Taganito River stream bed was observed to be shallow due to deposition of sand, silt and cobbles.
March 5- 7, 2014	MMT Inspection	The MMT verified the issue about the unpleasant odor emanating from the plant. The company presented the countermeasures such as: a. Lower the detections of H2S detectors from 1PPM to 0.2PPM b. Installation of additiona; spray nozzles at the final neutralization tanks c. Installation of scrubber at the final neutralization facility. The



Date		Activity	Sumn	nary of Findings
Date		riourity	Garrini	MMT did not smell same or
				similar odor within the plant site
				at the time of inspection.
			2	It was observed that the hillside
				channel overflows directly to
				Hayanggabon River. However, the
				company explained that during
				inclement weather, the discharge
				will be diverted to the decant pond
				to allow the silts to settle down. The
				recurring deposition of silts which
				becomes worst during inclement
				weather makes the dredging
				activities in the coastal area very
				expensive.
August	27-29,	MMT Inspection	1	Company is experiencing water
2014	2. 20,	moposion		shortage at the time of monitoring.
				Sources of water such as rivers
				and creeks were observed at
				critical level.
			2.	Hydro-seeding was conducted at
				the slopes of hillside channel. It
				was noted that growth of the
				sprayed grass species was
				concentrated at the bottom of the
				slope.
			3.	Extension of slurry discharge pipe
				was noted. Slurry is directly
				discharged to the water level of
				TSF to minimize detected odor.
April	28-30,	MMT Inspection	1.	The company just finished its
2015				annual preventive maintenance
				shutdown during the site inspection
				and validation.
			2.	Reforested area for NGP was
				planted with mangrove seedlings
				and most of it is located at Brgy.
				Wangke, Claver, Surigaodel Norte.
			3.	The company was unable to
				accomplish these targets based on
				the 1 st Quarter CY 2015 AEPEP:
				a. Coffer dam desilting below the
				Rock Quarry Area at Taga 3
				b. Desilting of Water Intake Dam
				going upstream at Taganito
			1	River.
			4.	Widening and cement treatment of



Date	Activity	Summary of Findings
	TO STATE OF THE PARTY OF THE PA	hillside channel access is on-going.
		Berms were also constructed in
		some areas near the channel.
		5. The structure of drainage canals in
		HPP complex is efficient in
		directing waste water towards the
		settling ponds. However, there is
		enough accumulation of silts and
		needs desilting.
		6. Settling Ponds 1 & 2 are well
		maintained. It maintains a pH 0f
		6.5-9.0. However, Settling Pond
		No. 3 needs to be desilted.
		7. Riprapping of Hayanggabon Creek
		is on-going.
		8. Hayanggabon River, the receiving
		water body of discharged water from the Decant pond, is silted
		during inspection.
		9. The Tailings Storage Facility
		sufficiently holds enough volume of
		tailings from the plant. It is best
		viewed at the Viewing Deck of
		THPAL (along with the decant
		pond).
		10. Good housekeeping in the
		Chemical Warehouse. The
		following equipment were
		purchased during the 1 st Quarter :
		a. Air compressor for scuba tank
		refilling (1 unit)
		b. Diving gears (2 sets)
		c. Sampler for Acid Mist Sampling (2 units)
		d. Oil Spill Response Equipment
		11. A big room for improvement for
		housekeeping in VSLC area.
		Empty sacks and other materials
		are piled/stored improperly.
		12. The waste water (basic) level in the
		Storm Drainage Pit (SDP) of VSLC
		is high. This is due to the
		preventive maintenance shutdown
		of the plant. However, it can be re-
		used during the normal operation.
		13. Relative to the H2S gas leak last
		April 14, 2015, the damaged



Date	Activity	Summary of Findings
		electronic isolation valve was already replaced with a new one. There is also an additional automatic on-off block valve installed. However, there was an observed deformation of the cladding material near the valve. This may cause possible related problem in the future. 14. The company committed to distribute emergency kits to residents of Brgy. Taganito in relation to the H2S gas leak incident. 15. Water trucks were seldom seen during the inspection, especially along the road going to the wharf. Dust emission is excessive. 16. The Scrap yard area houses reusable materials, metal scraps, scrap woods, among others, Since the area is an open space, these materials may contribute to land and water pollution. 17. The company's landfill caters to biodegradable and residual wastes. Industrial wastes are ready for disposal thru an accredited waste transporter. There is a large amount of residual wastes that may contribute to land and water pollution. (leachate) 18. The company has closely monitored the quality of air, water and biota within its area. Results indicated that all values are within DENR standards.
August 18-20, 2015	MMT Inspection	 The company is in its normal operation during the time of inspection. Reforestation (NGP) accomplishment for the 2nd quarter is only 16% of the target. Seedlings and fertilizers were already delivered to Bucas Grande Farmers Association, Inc. but



Date	Activity	Summary of Findings
		planting is yet to commence.
		3. Construction of additional
		hardening beds is not yet complete.
		Young seedlings were placed in an
		open area where it is directly
		exposed to sunlight. This may
		affect its growth and survival rate.
		4. Extension, cement treatment, slope
		stabilization and widening of
		hillside channel were observed
		during inspection. The hillside is
		well-maintained.
		5. Desilting of settling pond #1 is on-
		going. Desilting of settling pond # 3
		will follow as committed during the 1 st Quarter MMT.
		6. Drainage canals within the plant
		site are well-maintained.
		7. There was no observed siltation at
		the Coffer Dam during the
		inspection.
		8. Actual desilting in downstream of
		intake dam of Taganito River was
		observed. Due to intense heat,
		some portions of the river are dried
		up.
		9. Street sweepers were observed
		along the road from the plant to the
		wharf.
		10. Mixed wastes were disposed to the
		disposal facility. 11. MRF has limited space to
		11. MRF has limited space to accommodate all kinds of wastes.
		12. Housekeeping needs improvement
		at the Earth Works Camp
		(subcontractor).
		13. Emergency kits to residents of
		Brgy. Taganito were not yet
		distributed.
		14. The Staff Housing Project was
		visited. Land Preparation and slope
		stabilization using coconet and
		shotcreting are completed.
		15. Environmental monitoring in land,
		water, air and biota were
		conducted during the 2 nd quarter.
		The MMT was able to conduct



Date	Activity	Summary of Findings
		confirmatory water sampling at the
		discharge point of the Decant Pond
		and supernatant discharge to
		wharf. All results will be presented
		at the MRFC.
May 2-4, 2016	MMT Inspection	The company is on temporary
		shutdown since April 18, 2016 due
		to blow back vessel incident.
		2. THPAL presented to the MMT the
		status of the investigation of the
		incident and the team conducted
		inspection at the site. THPAL
		representative committed to
		replace the equipment with a new
		unit.
		3. No physical activity observed
		relative to expansion projects.
		4. Extension of hillside channel (550 meters), cement treatment of
		meters), cement treatment of access road (3,960 meters) and
		hillside channel expansion (4,820
		meters) were noted.
		5. Revegetation and slope
		stabilization along the edges of the
		housing facility was also observed.
		6. The company replanted 1,700
		mangrove propagules in Brgy.
		Panatao
		7. 2015 AEPEP achieved 79%
		financial accomplishment
		(PhP2,172,721,083.27 over
		PhP2,747,316,149.0 budget) and
		88% physical accomplishment.
		8. 2016 AEPEP Annual Budget is
		PhP1,899,845,312.0.
		9. For the 1st quarter 2016
		accomplishment, the company
		spent a total of PhP 495,174,818.0
		against PhP 422,340,246.0 budget
		which is 117% financial
		accomplishment with 84% physical
		accomplishment.
		10. On-going desilting activities were
		observed at Taganito River near
		Ore Preparation area.
		11. Recovered cobbles and silts were
		stockpiled at the upstream of



		Summary of Findings
		Taganito River. 12. Well-maintained nursery and fish pond with 43,740 mixed forest trees, 12,509 mixed flowers & ornamental plants with 520 vegetables seedlings. Dragon fruit seedlings, dwarf papaya and some fruit trees were also noted. Construction of butterfly garden is on-going. 13. Vermi-composting activity already started. 14. Hayanggabon river desilting has not yet started per schedule in the AEPEP 2016 and recommendation of special MMT last February 2016. 15. Newly installed leachate chamber treatment facility was observed at the sanitary landfill. 16. Composting facility is far from the leachate treatment facility where possible maximum generation of leachates can be noted. 17. At the Slaked lime plant of VSLC, vacuum dust sweeper and bag filters were noted. 18. New Carbon analyzer was also noted to be operational. 19. VSLC's waste oil storage facility was not arranged properly and covered only with old tarpaulin sheet. 20. Stockpile of fire woods was observed and accordingly to be used for firing the lime kiln furnace during pre-heating activity.
June 18-22, 2016	Environmental Audit	Please refer to the attached Environmental Audit Report.

E. NOTICE OF VIOLATION

Date issued	NOV	Details of Violation	on	Actions Taken	Status of NOV	the
February	6,	Presence of	silt	 Conducted 	d Already	settled
2012		deposits/discolora	tion was	mechanica	al and closed.	



Date NOV issued	Details of Violation	Actions Taken	Status of the NOV
	noted at Hayanggabon River going to Taganito Bay	dredging to remove the deposited silts. Maintenance of Hayanggabon River as of today is a continuous effort of the companyunder Adopt A River/Water-Body Program. 2. Constructed a rock-fill dike with grouted riprap at either side of the embankment. 3. Conducted a riprapping of hillside canal and open area. 4. Settlers along the river bank were already resettled under THPAL SDMP fund. 5. Paid an Environmental Obligation amounting to PhP 1, 460, 000.00	
May 07, 2015	H2S Gas leak due to the electronic isolation valve which was not completely closed during the purging activity of the MS reactors.	1. Medical check- up and giving of medicines to the affected residents of brgy. Taganito. 2. Installed additional scrubber system in the Pre-	Already settled and closed.



Date Nissued	IOV	Details of Violation	Actions Taken	Status NOV	of	the
			Neutralization Area to capture acidic mists. 3. Replaced the electronic valve that failed with a brand new unit. 4. Installed 35 additional H2S detectors along the plant boundary which is automatically			
			trigger the shutdown of H2S Plant and MS Sulfurization if critical level of 0.02ppm of H2S Gas is detected. 5. Installed heavy industrial fans at CCD4 and CCD5 to further disperse them to the direction away from the			
			community. 6. Implemented a comprehensive pollution control program immediately.			
			7. Conducted IEC on the implementation of Comprehensive Pollution Control Program.			
			8. Paid an Environmental Obligation fee amounting to PhP 50,000.00.			



F. OTHER ENVIRONMENTAL ACTIVITIES UNDERTAKEN

Date	Activity	Status
February 14,		A A Memorandum of Agreement
2012 to present	River/Water Body Program	between the brgy. Hayanggabon, THPAL and the LGU-Claver were signed last February 14, 2012. Commitments on the upkeep of Hayanggabon River as the adopted water body are a continuous effort of the company. Removal of silts through manual and mechanical desilting was done to enhance the water quality. Rock-filled dike was constructed in both side of the embankment. Riparian vegation was also enhanced through planting of riparian species such as Nypafruticans. Please refer to the attached reports of the Adopt A River Program undertaken by the company.
	National Greening Program	The company was able to reforest a total of 354 has. from year 2011 - 2016. The planted areas superseded the target which is 343 has. Enhancement planting is also conducted by the company. Continuous tree planting activities is conducted by the company in support to the program. This is also a way of promoting an environment-friendly operation through environmental protection and rehabilitation efforts made by the management. Please refer to the attached NGP reports.