PROJECT DESCRIPTION FOR SCOPING

1. BASIC PROJECT INFORMATION

Project Information	
Name of Project	**Proposed Increase in Production Capacity of the Paper Mill Project**
Location	TECO Industrial Park, Ninoy Aquino High Way, Mabalacat City, Pampanga, 2010
Nature of Project	Manufacture of Paper (Paper Mill)
Size/Scale	164,250MT/year or 450 MT/day production capacity

1.1 Proponent Profile	
Name of Proponent	Fifth Discipline Packaging Paper Corporation (5D)
Address	TECO Industrial Park, Ninoy Aquino High Way, Mabalacat City, Pampanga, 2010
Authorized signatory/ representative	Mr. Paquito R. Miranda (Operations Manager) Tel no. (045) 893-0676 loc. 459
Contact Details	(045) 893-0676 loc. 459
1.2 Preparer Profile	
EIA Preparer	Mediatrix Business Consultancy
Address	L29 Joy-Nostalg Centre, 17 ADB Ave., Ortigas Centre Pasig City 1600
Contact Person and Details of Preparer's Authorized Rep.	Ms. Matilde J. Fernando, LL.B., Environment Consultant
Contact Details	(+63)917.506.4499, mediatrixbusinessconsultancy@gmail.com; medi1425@yahoo.com

2. PROJECT DESCRIPTION

The Project is an ECC amendment of ECC Reference Number III-9806-078-120A issued by EMB Regional Office. This will involve increase in production capacity through installation of installation of an additional paper machine with a capacity of 164,250MT/year.

2.1 PROJECT LOCATION AREA

The project is located in the existing Paper Manufacturing Plant Trust International Paper Corporation (TIPCO) located within TECO Industrial Park, Ninoy Aquino Highway, Mabalacat City, Pampanga. The building is leased from TIPCO.

Geographic Coordinates of the Project Area:

POINT	LATITUDE	LONGITUDE
A	15°13'53.76"N	120°36'31.09"E
B	15°13'52.90"N	120°36'31.46"E
C	15°13'55.06"N	120°36'36.83"E
D	15°13'56.19"N	120°36'36.28"E

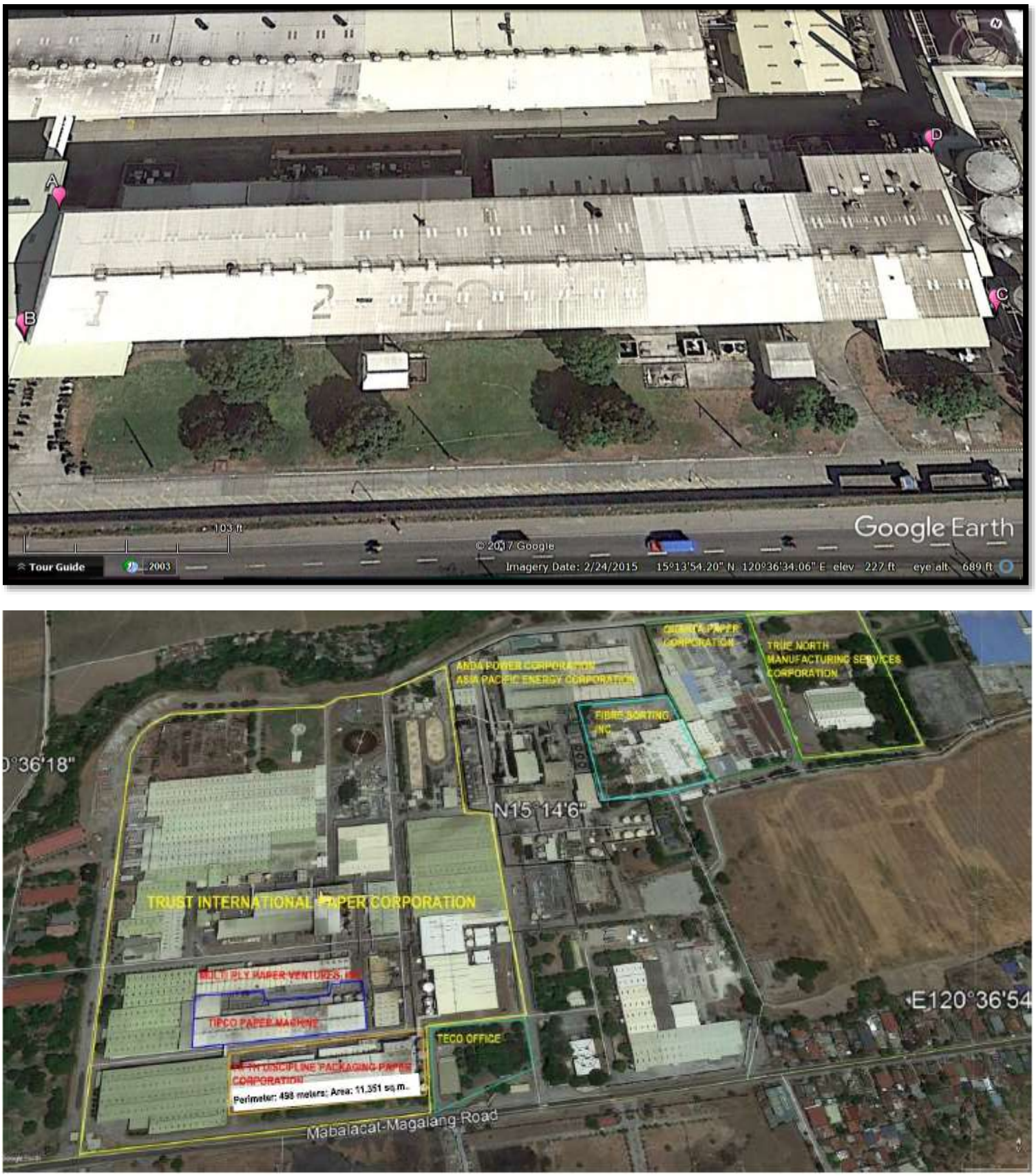

Figure 1: Google Earth Map showing the project site and its neighbors

2.2 PROJECT RATIONALE

The installation of an additional paper machine to be referred as Project 37, with a rated capacity of 164,250MT/year or 450 MT/day will be done to meet the following objectives:

- To address increasing demand for quality paper product.
- To supply industries as well as business enterprises good quality paper products
- To alleviate the living standard of the people of Mabalacat & nearby community by providing employment opportunity in the paper manufacturing plant

2.3 DESCRIPTION OF PROJECT PHASES

A. Pre-Construction/Pre-Development Phase

- Securing of ECC for the installation of additional Machine (P37).
- Continuing community relations, IEC and social development programs

B. Construction/Development Phase

The construction phase of the project involves the installation of the new machine of the proposed 164,250MT/year or 450 MT/day capacity known as P37.

C. Operational Phase

Project Operation:

The installation of paper machine known as **Project 37** will manufacture164,250MT/year or 450 MT/day production. The manufacturing process is divided into three sections, namely:

a. The Raw Materials Department, RMD
b. The Fiber Processing Plant, FP
c. The Paper Machine Department, PMD

a.1 The Raw Materials Department

The RMD has two major functions namely, the wastepaper inventory & repulping. Wastepaper comes from suppliers locally & abroad. Prohibitive materials such as outhrows are sorted out from the wastepaper prior feeding to the pulper. Wastepaper is then being fed to the **Consistency Pulper** thru the conveyor. In the pulper, the wastepaper is disintegrated into fibrous cellulose mass thru the mechanical action of a rotor in combination of dosed chemical & water.

Afterwards, contaminants removed from the pulper such as plastics, rubber, fasteners etc are rejected through the reject box.

The processed pulp goes to the **Fiber Processing** Plant for the next stage.

b.1 The Fiber Processing- Pulp enters the **High Density Cleaner (HDC)** which eliminates contaminants from the pulp. HDC utilize pressure head which is converted to velocity by free vortex principle. The pulp enters the cleaner tangentially, spiraling downwards. Thru the centrifugal force, heavier materials/contaminants flung to the wall of the cleaner& flushed to the dirt trap.

The pulp then ascends through the vertical discharge of the **HDC** going to the screen. **Contaminants such as plastic strips are then removed through screening.** These unwanted materials are then rejected through the reject box while the cleaned pulp moves toward the next stage of cleaning.

Pulp then flows toward another set of **Cleaners**, namely the Heavy weight Cleaner (HWC) & the Light Weight Cleaner (LWC). Contaminants are discharged while the pulp moves towards the **Washing Stage.** At this stage, the pulp is thickened or the consistency is increased thru the dewatering process. Pulp is then diluted to a desired consistency and flows toward the **High Density Tower** (HDT) ready for the paper making process.

c.1 Paper Machine Department
This is the last stage in the paper making process where the pulp from High Density Tower (HDT) is converted into paper based on customers' specifications.

Cleaners- The pulp undergoes different cleaning stages. Small sizes of dirt, sand & other non-fibrous materials are eliminated by centrifugal cleaners. The cleaned pulp is then processed to another stage to further remove the contaminants. Pulp then moves towards the Headbox.

Headbox- The headbox spreads the stock across the width of the Fourdrinier.
Fourdrinier- In the fourdrinier, pulp is dewatered by gravity forming into a web.
Presses- The dewatered web from the Fourdrinier passes through the presses for further dewatering. Paper web then moves towards the Dryers.
Dryers- While passing through the dryers, water evaporates from the web/sheet to desired paper moisture content. The dried sheet then goes towards the Calender.
Calender-The calender then smoothens out the surface of the finished paper while at the same time evens out the paper caliper.Paper is then collected in a spool.
Winder- A spool of calendered paper is transferred to the winding stand for rewinding. Paper is then cut into different sizes as required by the customers.

D. Abandonment Phase
Abandonment will only take place should paper manufacturing business in the country will no longer be profitable.

On the other hand, the current site where *of* Multi -Ply Paper Ventures, Inc. can only be abandoned if the site will be severely affected by natural disasters such as volcanic eruption e.g. when lahar flow reach into the project site & the access roads.

In the event of abandonment of this specific Project, of Multi -Ply Paper Ventures, Inc. will dispose the wastes in accordance with the law & demobilize the facilities as deemed necessary.

2.4 PROJECT COMPONENTS

FACILITIES	No. of Units	Area, m^2/Capacity	Specification/Description/ Remarks
Total lot area		**5,715 m^2**	
Water Source/supply		-	Thru TIPCO ESTATES CORPORATION/TECO
Waste water Management Facility	1	-	Will be connected to TIPCO
Solid Waste Management Facility	1	-	Metro Clark sanitary Landfill/Other Accredited Disposal Facility
Drainage System	-	-	Will be connected to TIPCO
Paper Machine	-	-	**Details on succeeding rows**
Headbox	1	-	VoithModulJet Headbox WA11500, with profile control; Head box slice
Fourdrinier	1	-	Wärtsilä, rebuilt by Voith with DuoFormer D
Presses	3	-	Suction Couch Roll Suction Pick Up Roll - Suction roll; Central roll ceramic cover; Second nip roll Venta grooved Third Press Top roll, Ceramic cover; Bottom roll Venta grooved

Dryer Cylinders	53	-	38 dryers, 2 Slalom groups + 2 conventional dryer groups,
Calender	1	-	Calender Top roll & Calender Bottom Roll Voith Cover
Winder	1		Slitter rewinder; Valmet
Reel	1	-	Grey Cast Iron Cover

PROJECT SITE PHOTOS

Ground Floor:

2nd Level/Operating Floor

2.5 UTILITIES REQUIREMENTS

Following are the utility requirements of the Project:

UTILITIES	SOURCE	Estimated Demand/Consumption
Power/Electricity (Total)	Formosa Power Supply Corporation	236,500 kwhr/day

Power/Electricity (From Renewable Energy Sources	None	NA
Water (Total)	TIPCO Estates Corporation/TECO	3,340 m^3/day

2.6 MANPOWER

MANPOWER REQUIREMENT	TOTAL
Construction Phase	**100-300 (min-max)**
Operation Phase	**60**

2.7 PROJECT COST

Project Cost (Php): Php 325,000,000.00

2.8 PROJECT DURATION AND SCHEDULE

Table 1: P37 Timetable on the installation of additional paper machine

		YEAR 1								YEAR 2		
MAJOR ACTIVTIES	**IN-CHARGE**	1	2	3	4	5	6	7	8	9	10	11
Materials Ordering	5D											
Civil works												
Inspection, Reconditioning & installation activities for available materials/equipment												
Dismantling of P37 Paper Machine												
P37 Paper Machine Installation Activities												
Testing and commissioning/Paper on Reel												

Legends: Project Progress Project Milestone

3. INSTITUTIONAL PLAN FOR EMP IMPLEMENTATION

The Environmental Monitoring Plan of Multi-ply Paper Ventures Inc., shall be undertaken by the Pollution Control Officer (PCO) and will act as a liaison among the management, the EMB, TIPCO and TECO. The PCO will be tasked to handle the environment-related activities including the monitoring & reporting of its undertakings and as required by applicable compliance obligations.

Trainings/orientations shall be conducted regularly to ensure employees awareness & commitment to the organizational set-up & policies. Reporting of such undertakings to the Management will be done at the same time.

An environmental Monitoring Plan during the full blast operation will be instituted by Multi-ply Paper Ventures Inc. to undertake all the environmental programs.

In addition to the monitoring plan, Multi-ply Paper Ventures Inc. will likewise strictly abide all the conditions to be stipulated in the Environmental Compliance Certificate (ECC).

4. ENVIRONMENTAL MONITORING PLAN

Multi-ply Paper Ventures Inc. will continuously be part/member of the Multi-Partite Monitoring Team of TECO to monitor environmental condition &undertake contingency response measures in case emergency situation arises. The scope of monitoring to be undertaken includes air & water pollution, any terrestrial degradation & community development.

Air
A combination of quantitative & qualitative methods shall be applied in monitoring for air quality during construction & by the business operations of the TECO locators. Note that air pollution if any has no significant adverse effect on the surrounding community since the TECO Industrial Park is in a safe distance from the residential area.

Water
Adverse impact on water can occur, mainly, through run off, leaks & accidents but less coming from the effluent. To ensure that water pollution will not be an issue, general condition of the ambient waters closest to the TECO Industrial Park will be monitored. Quantitative analysis of water quality as regulated by the law for the parameters TSS, COD & pH will be implemented.

Community Development
Periodic Survey shall be undertaken to assess the general sentiment of the surrounding communities and how the MMT can provide assistance as necessary. A mutually beneficial relationship will be maintained between TECO and the communities that will continuously promote the development of the Industrial Park and improved the standard of living of the local residents.