

# Siantar-Parapat Railway

## Overview

OPPORTUNITY



### Project Description

- It's railway construction project which connecting Pematangsiantar City to Parapat, the main gate of Lake Toba.
- The train to Parapat would shorten the travel time

Location	Pematangsiantar City – Parapat (Simalungun)
Track Length	64.7 Km (Divided into 3 segment)
Capacity	4,473,996 people/year
Sectors	Connectivity
Investment Value	IDR 12,100 Billion
Business's Scheme	Public Private Partnership
Project Status	<ul style="list-style-type: none"><li>- Feasibility Study completed in 2016</li><li>- Outline Business Case completed in 2017</li><li>- SID in 2018</li><li>- Detail Engineering Design in 2019</li></ul>

### Contact Person



Name : Agustinus Panjaitan  
Occupation : Head of Train Division,  
North Sumatra Transportation Board  
Mobile : +62 812-6067-538  
Email : agustinuspanjaitan@gmail.com

### Profile Project



#### MOBILITY

Economic activities encourage the mobilization of people and goods from one region to another. Transportation infrastructure is needed, one of which is railroad infrastructure

Track Distance  
64.7 Km



#### FUND

Infrastructure development requires large funds. The role of the private sector / business entity is needed to be involved in funding the construction of railway transportation infrastructure.

Est. Project Cost  
IDR 12,100 Billion



#### PRIORITY INFRASTRUCTURE

Railways are a priority infrastructure in infrastructure development  
Siantar - Parapat Corridor: railroad has the potential to be PPP

Government Contracting Agency (GCA)  
Governor of North Sumatera  
Province



Project Scheme  
Public Private Partnership



Return of Investment Mechanism  
Availability Payment



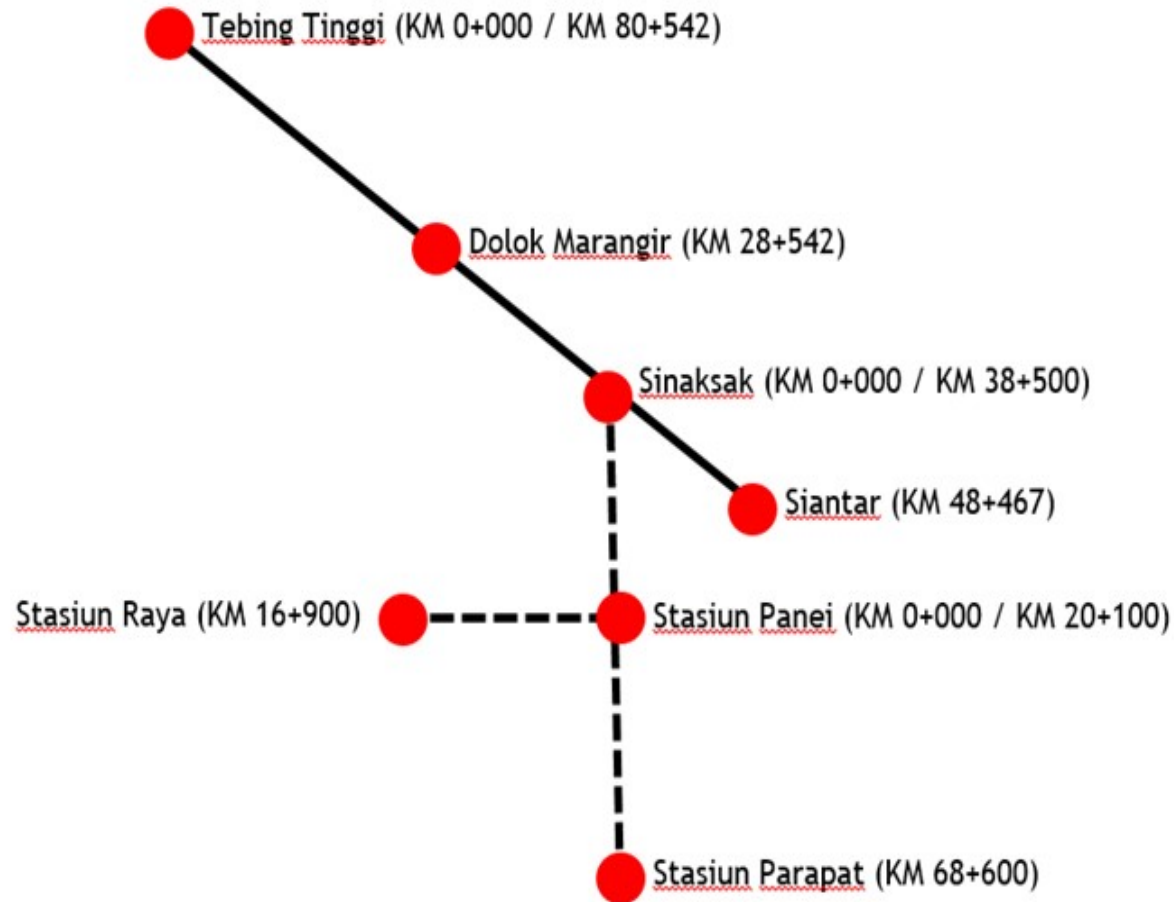
Contract Period  
20 years



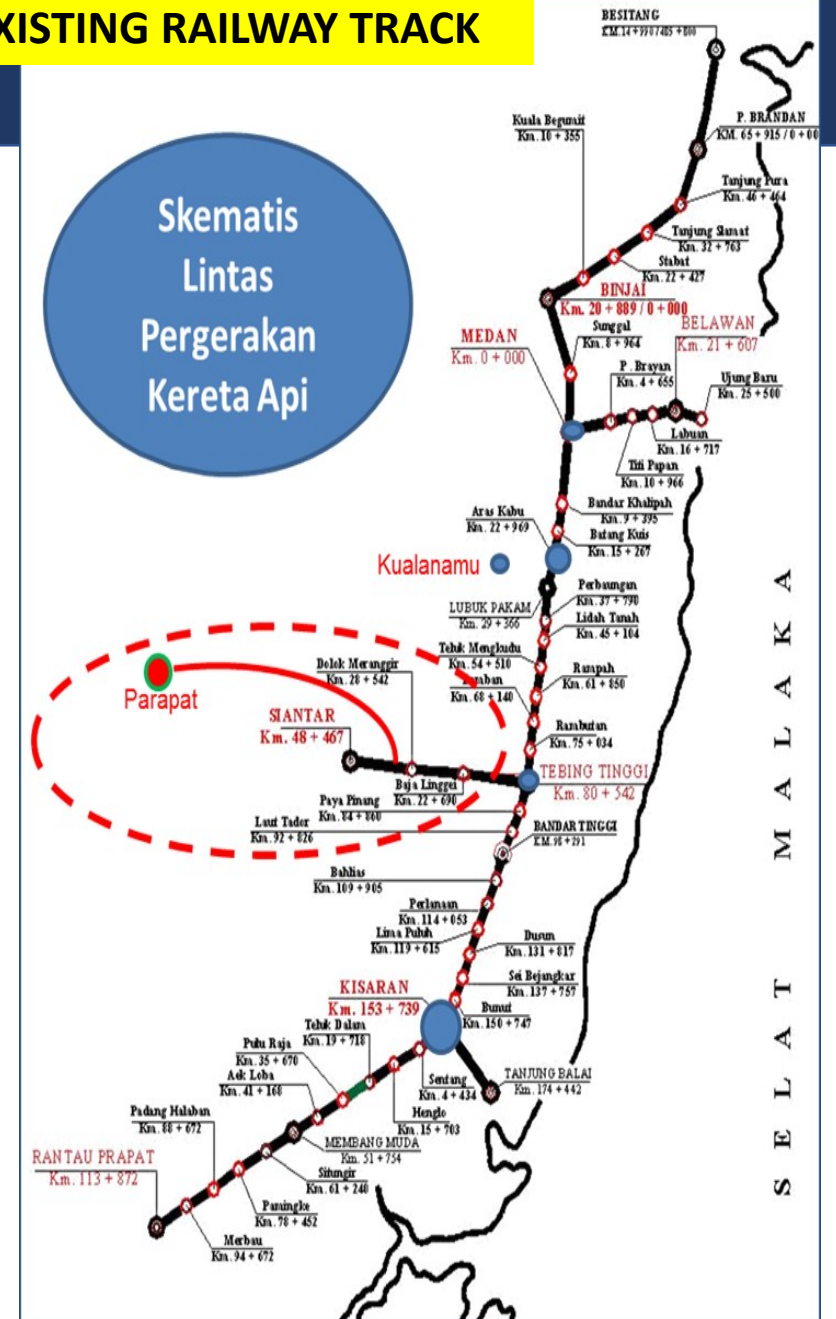
# Siantar-Parapat Railway

## Track Plan

### SIANTAR-PARAPAT TRACK PLAN



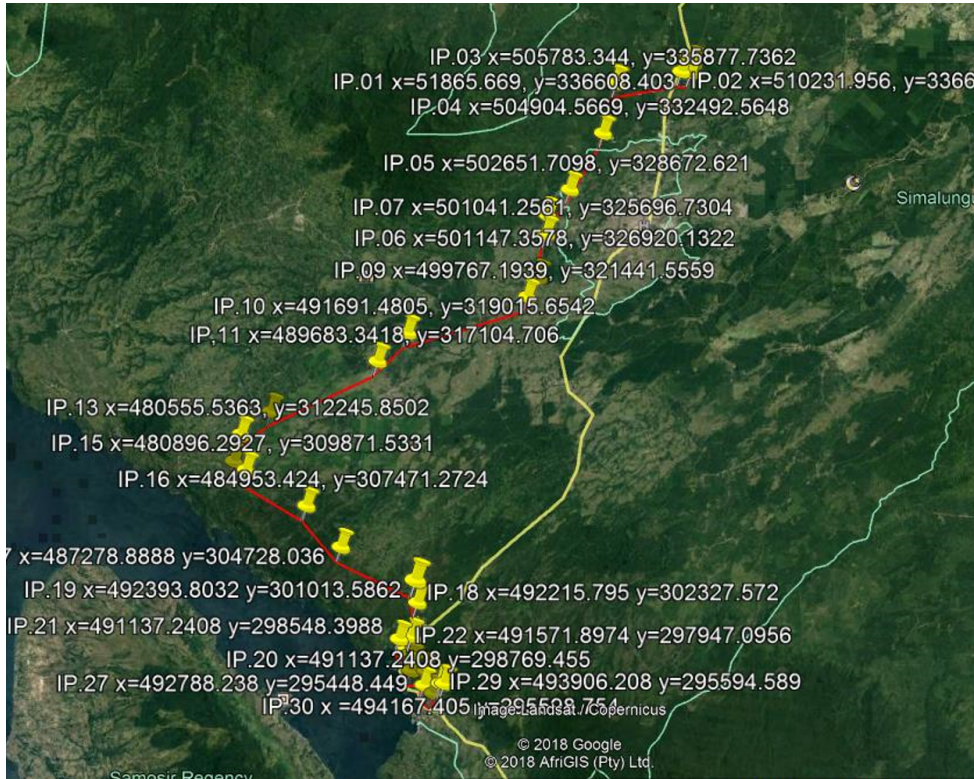
### EXISTING RAILWAY TRACK





# Siantar-Parapat Railway

## Progress

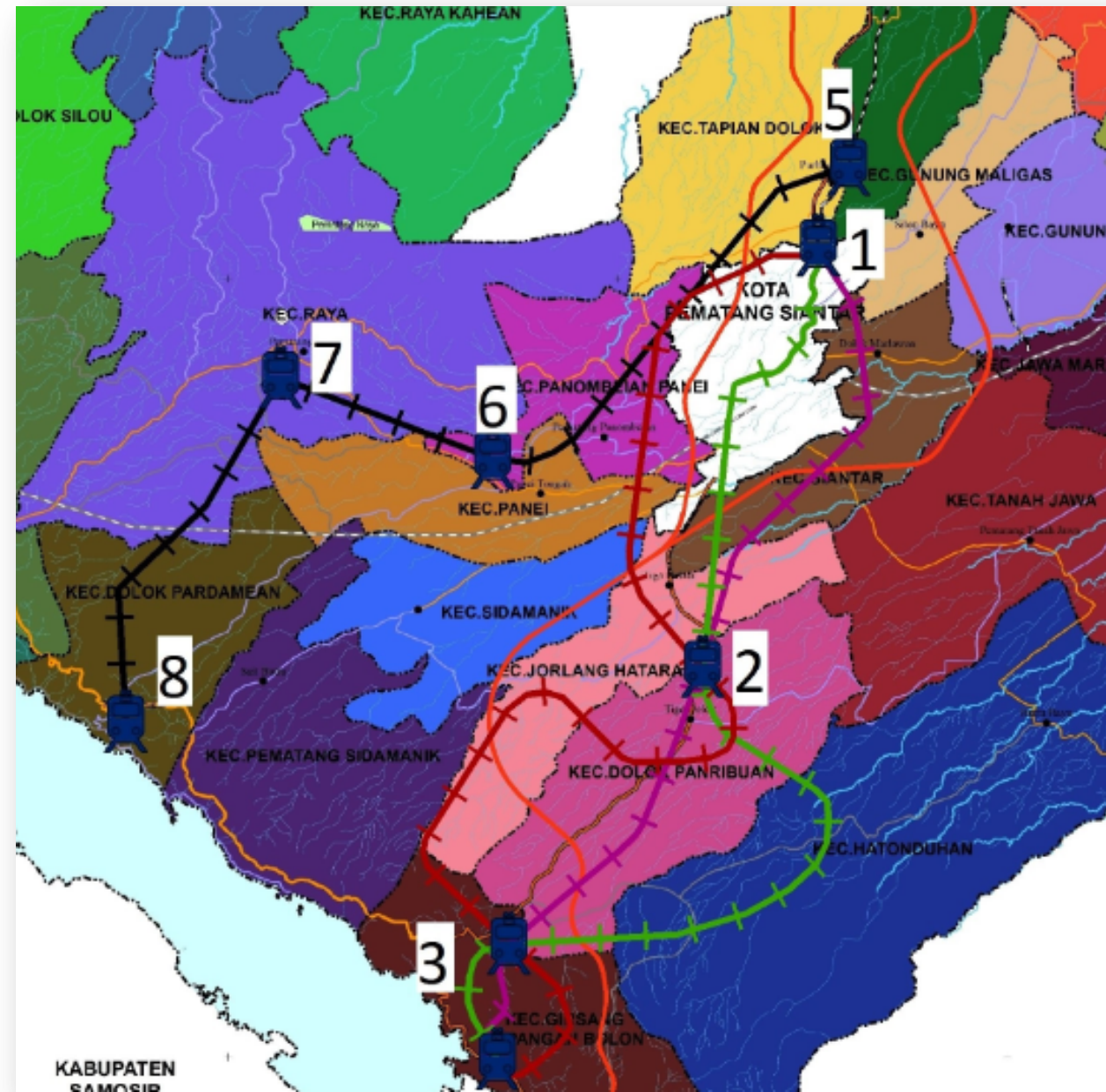


- **2016 : FEASIBILITY STUDY (MoT)**
- **2017 : OUTLINE BUSSINESS CASE STUDY (MoT)**
- **2018 : SURVEY INVESTIGATION DESIGN - SID (MoT)**
- **2019 : DETAIL ENGINEERING DESIGN STUDY – DED (MoT)**
- **OFFICIAL LETTER FROM NORTH SUMATERA GOVERNOR TO MoF, Number : 550/6051 /2019 TGL.19 JUNI 2019, ASKING FOR PROJECT DEVELOPMENT FACILITY (PDF) FROM MOF**
- **2020 : LAND ACQUISITION**
- **2021 : CONSTRUCTION**



# Siantar-Parapat Railway

## Concept Plan



### Keterangan:

#### ADMINISTRASI

- District Capital
- Sub-District Capital
- District Boundary
- Sub-District Boundary
- River
- Lake



Stasiun Rencana

- Alternative Route 1
- Alternative Route 2
- Alternative Route 3
- Pondok Genteng-Sipigul Railway Plan
- Toll Road Plan

#### JARINGAN PRASARANA TRANSPORTASI

##### Jaringan Transportasi Darat

- Arterial Road
- Collector Road 1
- Collector Road 2
- Collector Road 3
- Collector Road 4
- Primary Local Road
- Environment Road

**Alternative Route 1:** Pematangsiantar City (Martoba Subdistrict)-Simalungun District (Panombean Panei Subdistrict, Panei, Sidamanik, Jorlang Hataran, Sidamanik, Girsang Sipangan Bolon)

**Alternative Route 2:** Pematangsiantar City (Martoba Subdistrict-Siantar North, West Siantar, South Siantar and Marimbun Subdistrict)-Simalungun District (Siantar Subdistrict, Jorlang Hataran Subdistrict), Dolok Panribuan, Girsang Sipangan Bolon.

**Alternative Route 3:** Pematangsiantar City (Martoba Subdistrict)-Simalungun District (Siantar Subdistrict, Jorlang Hataran Subdistrict), Dolok Panribuan, Hatonduhan-Girsang Siangan Bolon-Desa Girsang-Parapat Kecamatan Girsang Sipangan Bolon.

# Siantar-Parapat Railway

## Track Plan



### Segment 1

*Siantar Martoba – Jorlang Hataran (26.5 km)*



### Segment 2

*Jorlang Hataran – Girsang S. Bolon (27.5 km)*



### Segment 3

*Girsang S. Bolon – Parapat (10.7 km)*





# Siantar-Parapat Railway

## Financial Feasibility

**TOTAL CAPEX**  
IDR ~12,100 Billion

**OPEX**  
IDR ~120.6 Billion / Year



**IDR ~ 1,057 Billion/ Year**  
Concession Period 20 years



~ 14 %





# Siantar-Parapat Railway

## Track Design

