

# ABOUT COMPANY



TNP is a consultant company offering a wide range of services in the mining industry, focusing on surface water, groundwater and geophysics. The scope includes but not limited to site desktop study, site investigation, analysis/interpretation and recommendations.

The company was formed by some experts with extensive background in lead mining consultancy and is developing into high consultancy services engaging local and overseas resources. Our expertise has work experiences in Indonesia, Southeast Asia and Australia.

Our expertise project experiences mostly cover supporting mining facility design and non-mining sector (e.g. manufacturing). In addition to these, TNP also has a wide connection/network to overseas resources. Hence, TNP can provide specific expertise based on clients' needs and requirements.



# Our Value

Strengthen Local Presence:
Collaboration with other expertise
companies based on client needs

Focus on Technical Quality:
Providing expertise with past experiences
from reputable companies

Better Services:
We consistently hear our client's
feedback to improve our performance

### Vision

To be a leading local mine consulting company and committed to providing high quality services in mining and manufacturing industry

## Mission

Commitment to continous improvement and innovation in order to offer practical solutions to clients' technical challenges

# MEET OUR TEAM





TOMMY PRASTOWO
Operations Director,
Senior Hydrologist



ISA ASHARI Associates Rock Mechanic Engineer



SAMPURNO
Lead Business Development,
Mining Engineer



RETA LILYANANDA Hydrologist



SHABRINA TASHA

Geophysicist



ABI MAWALID
Geophysicist



LAILA INAYATI
CAD Drafter

### **CONSULTING SERVICES**





### SCOPE OF CONSULTING SERVICES



#### **Site Investigation**

- Geotechnical and Exploration Drilling
- Cone Penetration Test (CPT)
- Dynamic Cone Penetration Test (DCP)
- Hand Auger
- Packer Testing
- Slug Test
- Flow Gauging
- Surface Water and Groundwater Sampling
- Electrical Resistivity Imaging (ERI)
   Survey
- Shallow Seismic Refraction
- MASW Survey
- Downhole Seismic Testing

#### Mining

- Pit optimization studies
- Optimal cut-off grade evaluations
- Open pit design
- Mineral reserve estimates

# Geology and Resource Evaluation

- Exploration design, planning and management
- GIS and data management
- Resources estimation and JORC reporting
- Resource auditing and review
- Project evaluation and independent review

### SCOPE OF CONSULTING SERVICES



#### **Geotechnical Engineering**

- Geotechnical and Geophysical Investigation
- Laboratory testing
- Static and dynamic stability analysis
- Down hole geophysical logging
- Rock mass characterisation
- Slope stability
- Waste dump stability
- Geotechnical Instrumentation
- Block/Panel caving
- Bulk and selective underground mining
- Ground support and reinforcement for surface and underground mining
- Stability of underground excavation
- Surface mining through underground working
- Numerical modelling
- Mine seismicity interpretation
- Geotechnical audit
- Due diligence
- Risk management system

### Water Supply and Surface Water Management

- Hydrology and drainage design
- Climate analysis
- Surface water and groundwater supply assessment
- Sediment control and erosion control design
- Development of hydrometric network
- Hydraulic structure design
- River diversion study and design
- Groundwater modelling
- Contaminant transport modelling

### DRILLING SERVICES











No.	Equipment	Services
1	Jacro 100 (2 units)	Drilling (Wireline, NQ/HQ Core)
2	Jacro 75 (2 units)	Drilling (Wireline, NQ/HQ Core)
3	Jacro 50 (5 units)	Drilling (Wireline, NQ/HQ Core)
4	Standard Penetration Test	SPT Testing
5	Dynamic Cone Penetration Test	DCP Testing
6	Hand Auger	Surface Soil Sampling
7	Manual CPT 2.5 tonnes	CPT Testing
8	Hydraulic CPT 5 tonnes	CPT Testing
9	Inflatable Packer (SWIP Type)	Packer (lugeon) testing
10	Jack-up Ponton Unicorn 152	Platform for Drilling (max depth 24 meters)
11	Total Station	Topography Survey

### LABORATORY SERVICES







Uniaxial Compression Test





Direct Shear



Triaxial (with pore pressur



Soil Properties

### **Laboratory Testing**

- Water content of soil
- Particle size distribution and hydrometer
- Specific gravity
- Atterberg limit and plastic limit
- Unconfined compression test for soil
- Direct shear CD
- Triaxial unconsolidated undrained
   UCS
- Triaxial consolidation undrained (single and multi- stage)
- Triaxial consolidation drained
- Consolidation
- California bearing ratio
- Point load
- One dimensional swell or settlement potential cohesive soils
- Compaction characteristics of soil using modified efforts

- Standard compaction characteristics
- Compressive strength and elastic modul of Intact Rock Core
- Shear Test
- Sandcone test, for insitu testing
- Permeability test
- Oedometer test
- Triaxial Test Cyclic & Monotonic
- Direct Simple Shear Cyclic

#### **CONTACTS**







#### **Administration Office**

Alamanda Tower, 25<sup>th</sup> Floor Jl. TB Simatupang, Kav. 23-24, Cilandak Jakarta 12430 Indonesia

#### **Operation Office**

Citra Grand Ruko Kawasan Niaga R3 No.7

Cibubur – Bekasi, West Java Telp/Fax : +62 21 843 00 777 Whatsapp : +62 811 969 1421

Email: <u>tprastowo@terra-nusa.com</u>

### PT TERRA NUSA PRIMA