
	DATA UMUM	TANGGAL	4-Apr-23
DIVISI MARKETING	KETENAGALISTRIKAN	HALAMAN	1 / 2

 <p>Mentarang Induk HEP</p> <p>PT Kayan Hydropower Nusantara 42, perbatasan Malinau, Indonesia (Damping Area & HEP 2012)</p> <p>Reservoir Area: 228 km² Dam Crest Length: 790 m 2 x 1.6m dia. Underground Diversion Tunnels 5 x 0.6m dia. Underground Penstocks 220m High CFRD Powerhouse: 8 x 275 MW = 2,200 MW Gravel Chain Spillway (20,200 m²/s)</p> <p>Estimated Installed Capacity: 1,375 MW, Firm Power: 830 MW from Energy & 103 GWh per year 2012 - Consultant: Jaya CM Note: Feasibility Study Layout Sumber: Dokumen Paper PT Kayan Hydropower Nusantara (2012) 23 Juli 2023</p>	NAMA PROYEK	: Supervisi PLTA Mentarang (Engineer Consultancy Services for Mentarang Induk Hydroelectric Project)
	PEMILIK	: PT Kayan Hydropower Nusantara
	JENIS PROYEK	: PLTA Induk
	LOKASI	: Kabupaten Malinau, Provinsi Kalimantan Utara, Indonesia, sekitar 47 km di hulu Kota Malinau
	PERIODE	: 6200man days (1200 for internationals and 5000 for locals) or 267 man months

1	Jumlah Unit Pembangkit	
	- pembangkit permukaan	5 Unit
	Total	5 Unit
2	Kapasitas per Unit Pembangkit	
	- pembangkit permukaan	275 MW
	Total	1375 MW
	Hydrology	
	- River / Stream	Mentarang
	- Catchment area	8196 km ²
	- Mean river discharge	558,8 m ³ /s
	- Median flow	490,9 m ³ /s
	- Q _{10,000} (inflow)	12,183 m ³ /s
	- Q _{PMF} (inflow)	28,168 m ³ /s
	Reservoir	
	- Full supply level (FSL)	EL 230,0 masl
	- Maximum Reservoir Level (MRL)	EL 237,8 masl
	- Maximum Station Operating Level (MSOL)	EL 232,2 (1:10,000 AEP flood)
	- Minimum operation level (MOL)	EL 210,0 masl
	- Storage Capacity at FSL	12,717 Mm ³
	- Active storage	3,924 Mm ³
	- Surface Area at FSL	226 km ²
	Power Generation	
	- Installed Capacity	1,375 MW
	- Rated Net Head	197,9 m
	- Rated Discharge (5 Units)	758 m ³ /s
	- No of Units	5
	- Units Rated Power	275 MW
	- Firm Power (max, n-1), 99% dependab	830 MW
	- Firm Power (max, n-1), 95% dependab	925 MW
	- Annual Energy (Firm Power set at 950 MW)	8,324 GWh/yr
	- Firm Energy (Firm Power set at 925 MW)	8,103 GWh/yr
	- Power Density	6,1 W/m ²
	Dam	
	- Type	Concrete Face Rockfill Dam (CFRD)
	- Crest Level	EL 240 masl

 JAYA CM	DATA UMUM	TANGGAL	4-Apr-23
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	- Deepest Foundation Level (estimated)	EL 5	masl
	- Crest Length	815	m
	- Crest Width	9	m
	- Total Rockfill Volume	22,6 million (without u/s blanket)	m ³
		24,7 million (without u/s blanket)	m ³
3	Lingkup Pekerjaan	Pengawasan	
		A.	
4	Biaya Konstruksi	TBA	
	- Onshore	TBA	
	- Offshore	TBA	
	PAGU	\$2,000m incl PPN % ; KSO - Jaya CM%	
5	Konsultan Supervisi		
	- Project Management	Tractebel Engineering GmbH, (TEG) (Leader)	
	- Supervisi Konstruksi	PT Jaya CM (member)	
		Nippon Koei Co., Ltd. (NK)	
		PT Indokoei International (IKI)	
	- Design	TBA	
6	Kontraktor		
	- Architect	TBA	
	- Struktur	TBA	
	- MEP	TBA	
7	Main Equipment		
	- Boiler	TBA	
	- Steam Turbine	TBA	
	- Generator	TBA	
	- GIS	TBA	
	- Main Transformers	TBA	
	- Electrical, I&C	TBA	
	- Civil Work and BOP	TBA	