Samoa: Alaoa Multipurpose Dam Project

(Grant 0947/0948-SAM)

Early Market Engagement Presentation

25/05/2026 – Nadi, Fiji

Government of Samoa

(Ministry of Works, Transport and Infrastructure)

Session Agenda

1. Purpose of Early Market Engagement
2. Project briefing
3. Procurement process overview
4. Market feedback topics
5. Q&A
6. Government Requirements for Contractors
7. One-to-one meeting logistics

Purpose of Early Market Engagement

Early Market Engagement is a structured market-sounding exercise to collect market feedback and inform the planned procurement of the Alaoa Multipurpose Dam and SHP design-build package.

- ✓ **Present** the project and proposed procurement approach
- ✓ **Share** key technical, contractual, and E&S considerations
- ✓ **Understand** market interest and bidder appetite
- ✓ **Seek feedback** on scope, procurement method, risks, and timelines
- ✓ **Support** finalization of the procurement strategy before formal tendering

This EME is <u>not</u>:

- X a tender process
- X a negotiation
- X a preselection or evaluation stage
- X a source of preferential information

Market feedback will be considered transparently and will not affect any future evaluation outcome.

Why the Alaoa Project Matters (1/3)

Problem-1: Flood Protection

- One of the main causes of flooding in Apia is the Vaisigano River,
- Major floods have occurred on more than 10 occasions, and the most extreme 100 yr event flood happened due to Cyclone Evan in Dec. 2012; then less severe floods in 2015 and 2018
- According to a Post Disaster Needs Assessment report prepared by the government, Cyclone Evan caused a total estimated damage of over $200.0 million in 2012; about 25% of Samoa GDP in 2012.

Why the Alaoa Project Matters (2/3)

Problem-2: Water Supply-Alaoa WTP

- Another impact of climate change is a seasonal variation of rainfall patterns, potentially threatening water security, especially in isolated small island states like Samoa.
- The Vaisigano River flows are variable, and during an extended dry period, there can be supply issues.
- Adversely, there are times when the turbidity of the water in the river at the intakes is too high and, therefore, not suitable for the raw supply to the Alaoa water treatment plant, which supplies 60% of Apia City's water supply. Accepting this water has the impact of clogging the slow sand filters within the water treatment process.

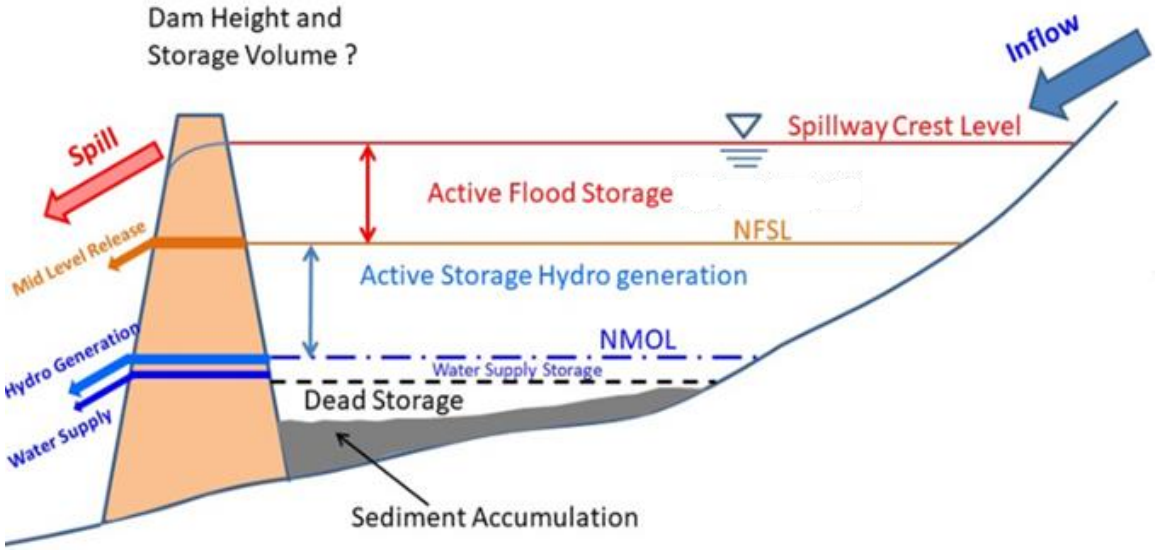
Why the Alaoa Project Matters (3/3)

Problem-3: Hydropower

- Adversely, there are times when the turbidity of the water in the river at the intakes is too high and, therefore, not suitable for the raw supply to the Alaoa water treatment plant, which supplies 60% of Apia City's water supply. Accepting this water has the impact of clogging the slow sand filters within the water treatment process. Samoa’s energy security situation is weak due to high reliance on imported fossil fuel.
- The reliance on imported fuel is reflected in the high electricity tariff.
- To reduce the high electricity tariff, the government set a 70% renewable energy target for electricity generation through by 2031.
- As of 2024, about 41% of electricity consumption was being met by renewables (hydro and solar)

Solution - the Alaoa Dam Project

- It will be a **Multipurpose Dam** – this means it is sized and designed for more than one purpose.
- 3 main purposes, in order of priority
  - **Flood Protection**
    - Increase the flood protection for Apia
    - Protection of Communities and, Key Infrastructure (hydropower and water supply)
  - **Water Supply Storage during Drought Periods**
    - improved reliability of the supply during dry season
  - **Additional Hydropower**

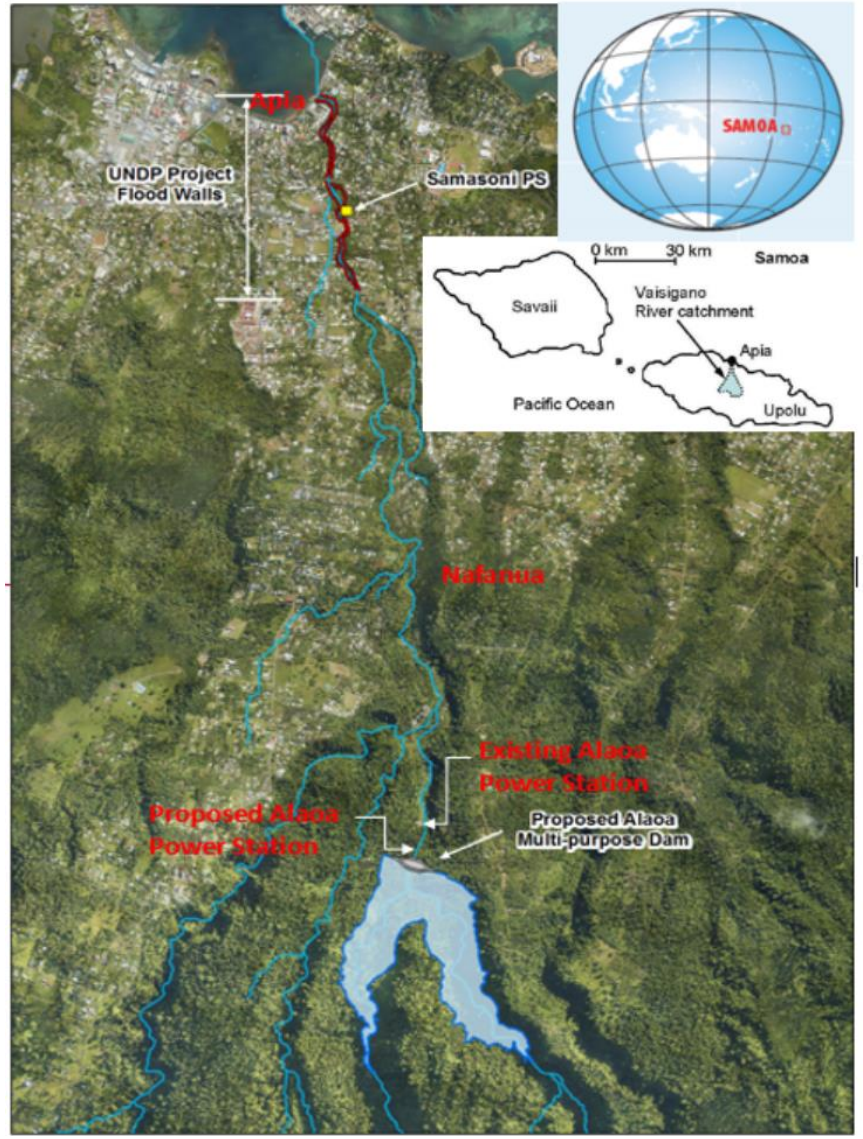


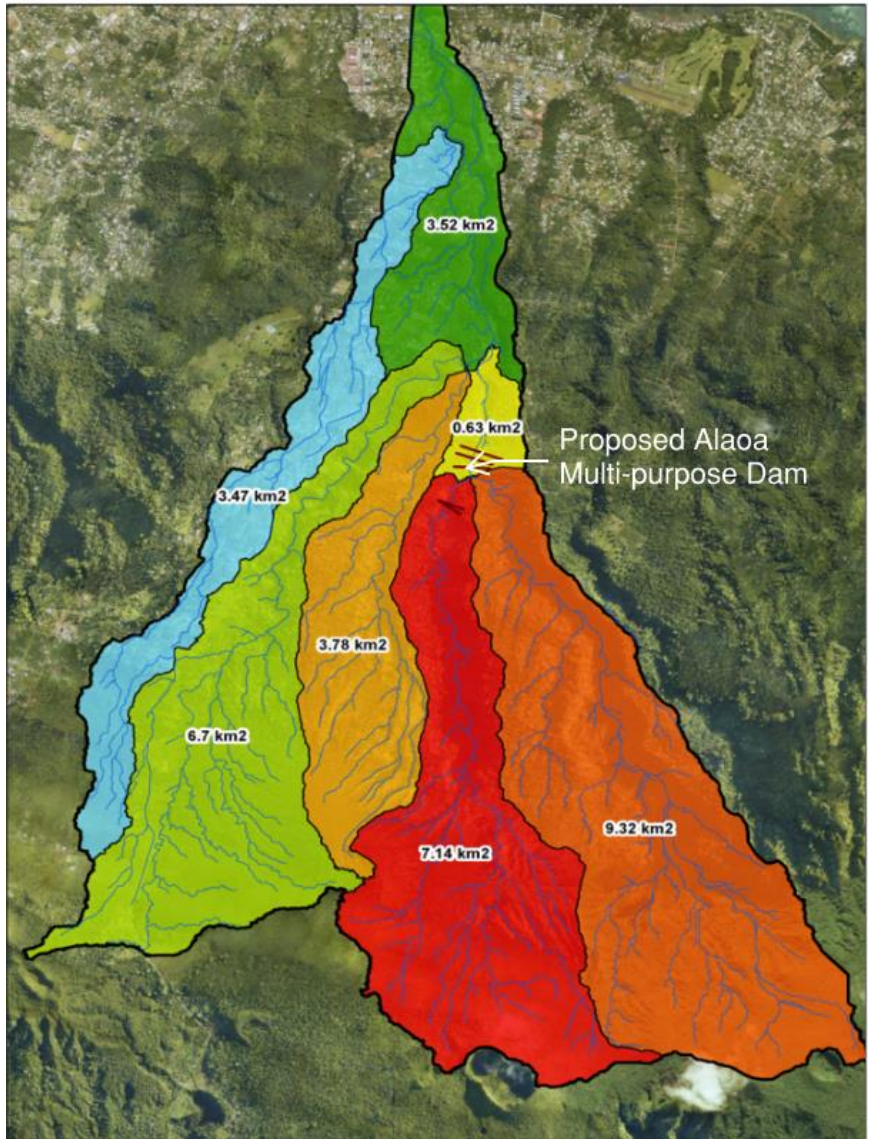
Additional Benefits

In addition to the proposed solutions, ADB is also working on the below key outputs:

- strengthening project management capacity by developing local capacity to undertake
  - operations and maintenance of the dam
  - project management tasks in line with international standards and best practices
- gender mainstreaming by designing project outcomes to directly improve gender equality and women's empowerment
- enhancing local systems and capacity for
  - flood management
  - biodiversity conservation, management, and monitoring

Location Map and Vaisigano River Catchment





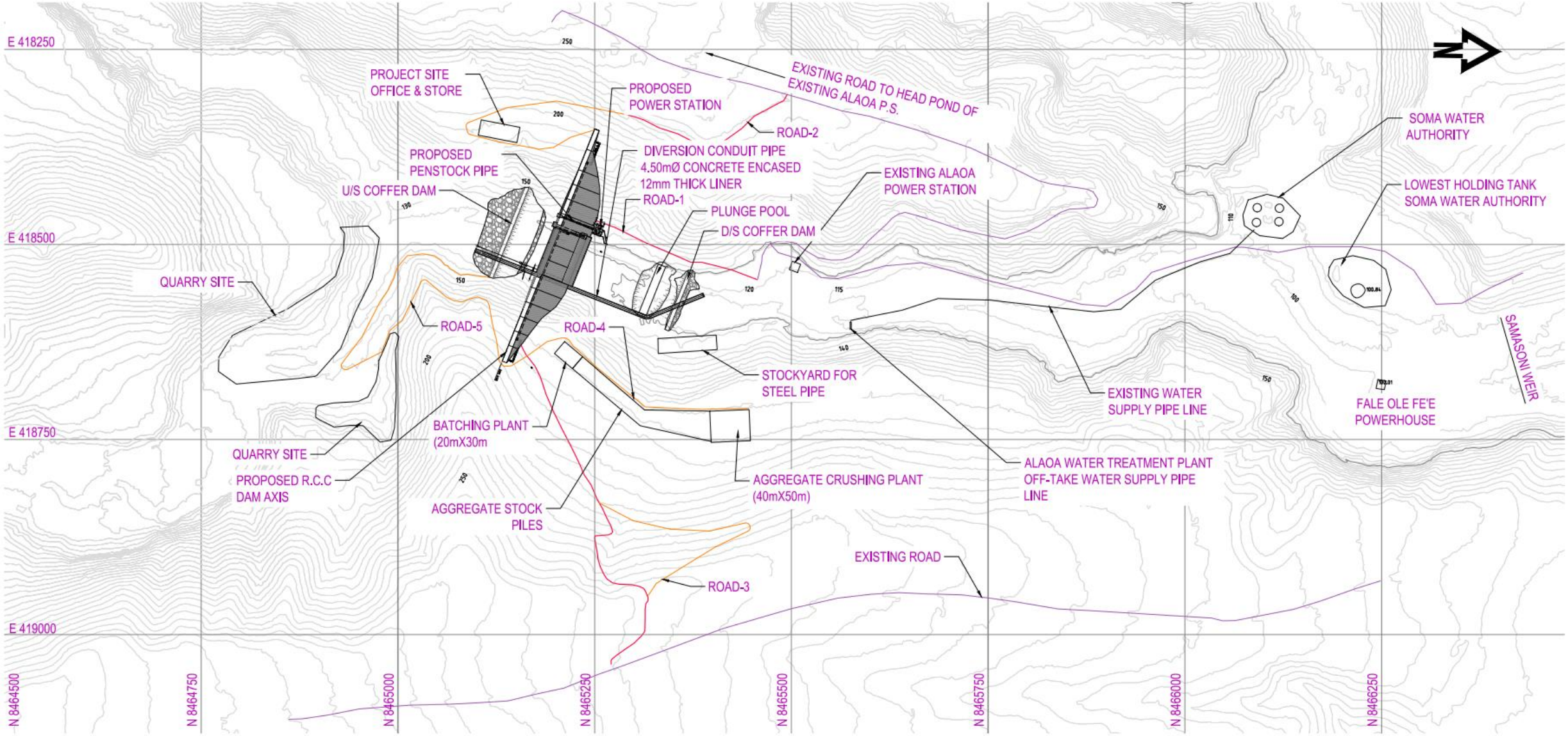
Salient Features (1/2)

- **Dam**
  - Type: Concrete Gravity Dam
  - Material: Roller Compacted Concrete
  - Height = 59.6m
  - Length = 320m
- **Spillway**
  - Un-gated ogee crest
  - Chute overtop of the dam
  - Downstream flip bucket and plunge pool to dissipate the energy

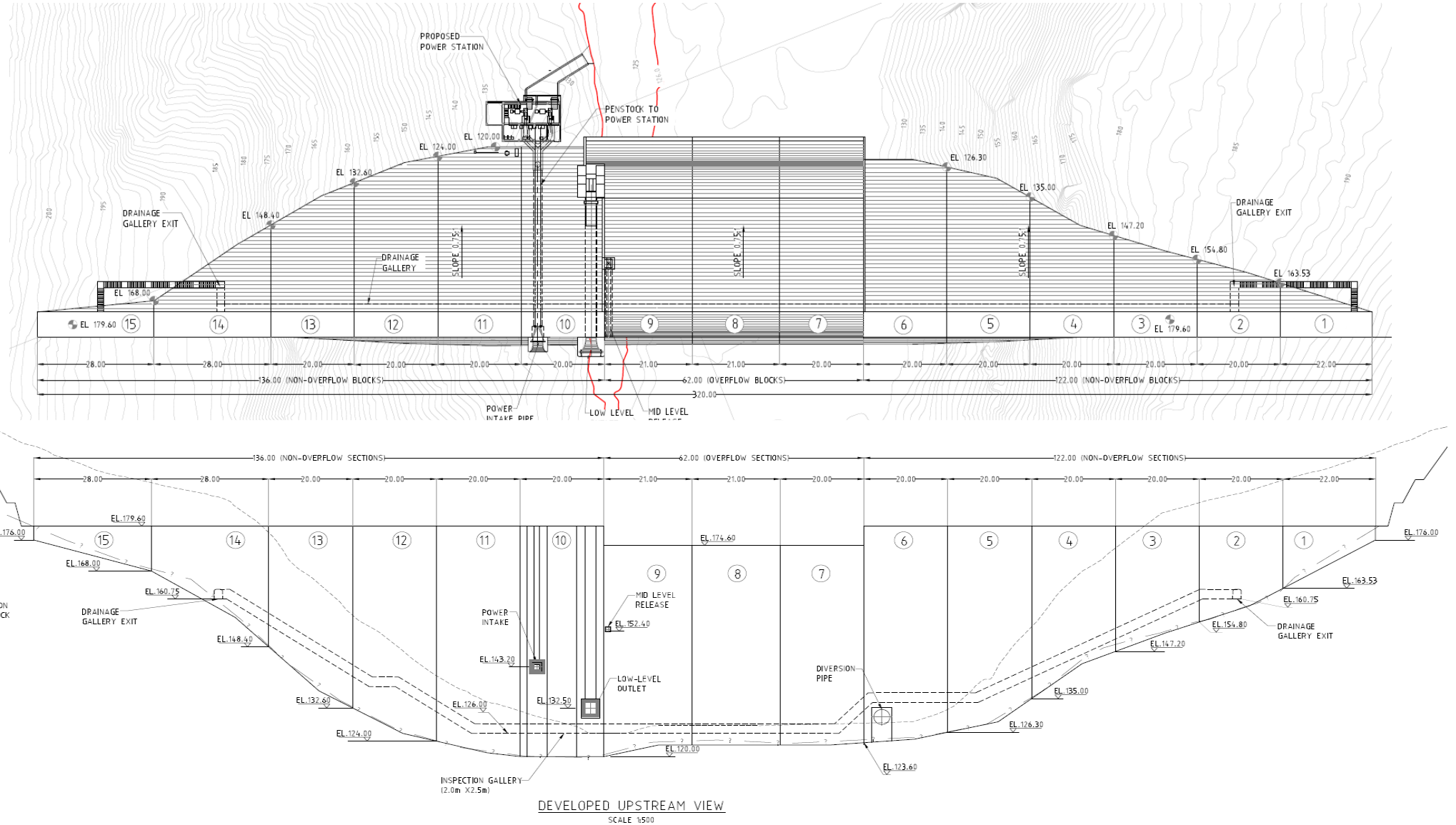
Salient Features (2/2)

- **Low-level Outlet for flushing of sediment (0.5 Mm3)**
  - 2.5m wide x 3.0m high
  - Radial gate at the downstream end
- **Water Supply Storage and Outlet (0.5 Mm3) ..propose**
- **Mid-Level Outlet for maintaining lake level for flood retention (3 Mm3)**
  - 0.9m diameter, with downstream valve
- **Powerhouse**
  - Surface station at the toe of the dam, left abutment
  - 2 x 0.3MW machines = 0.6 MW Total
  - Transmission connection

Drawings – Project Layout

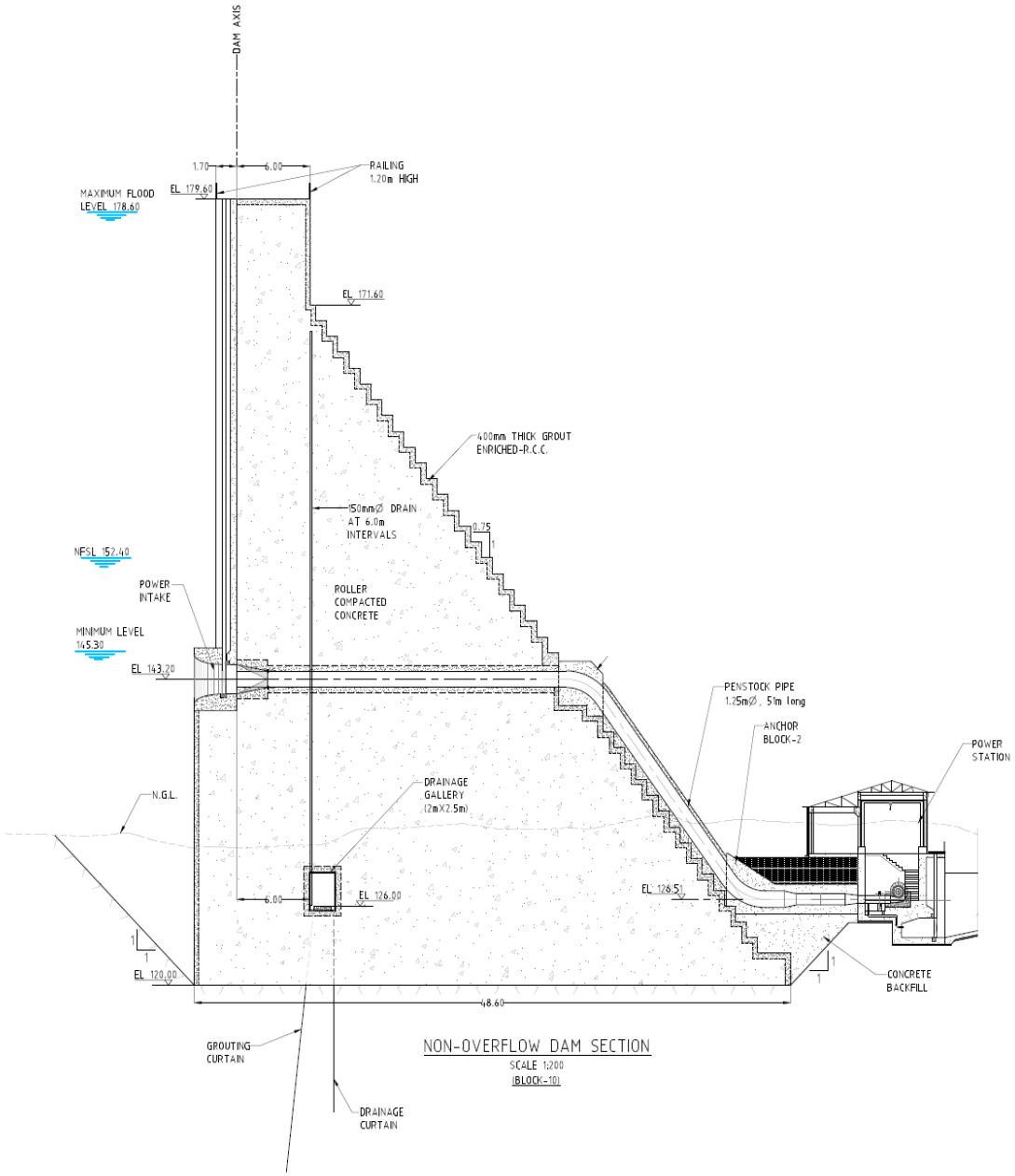


Drawings – Dam

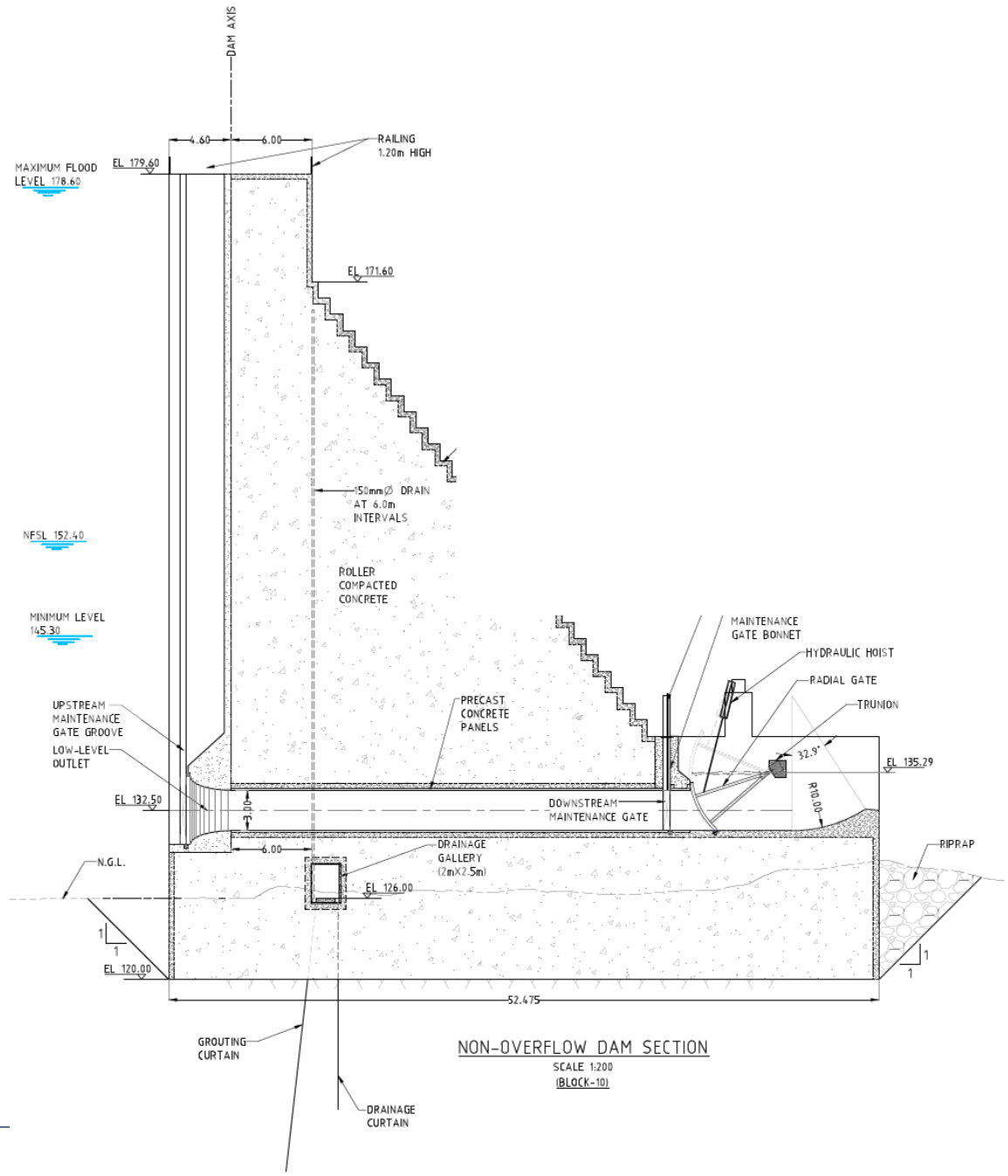


DEVELOPED UPSTREAM VIEW
SCALE 1:500

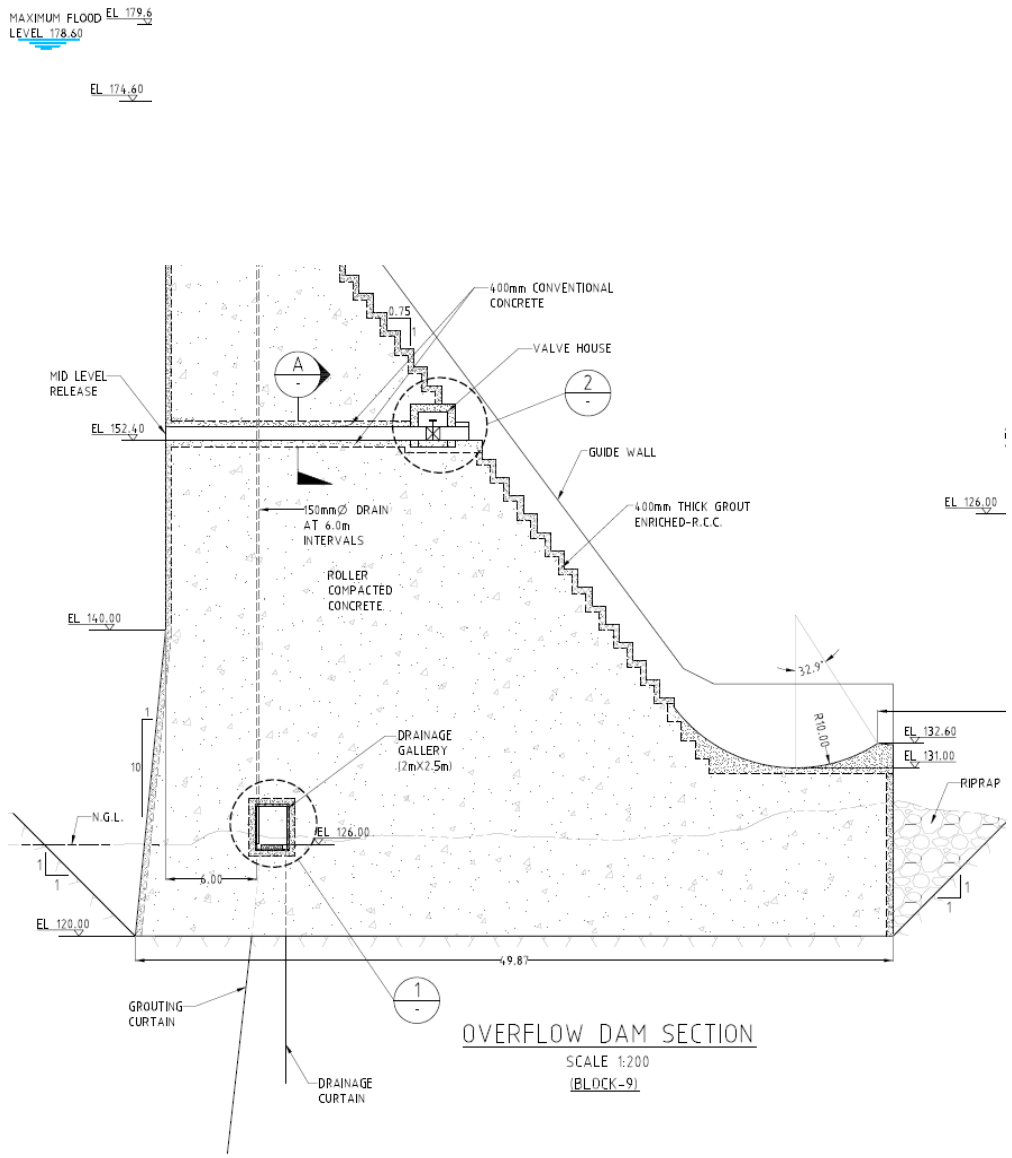
Drawings
Section Powerhouse



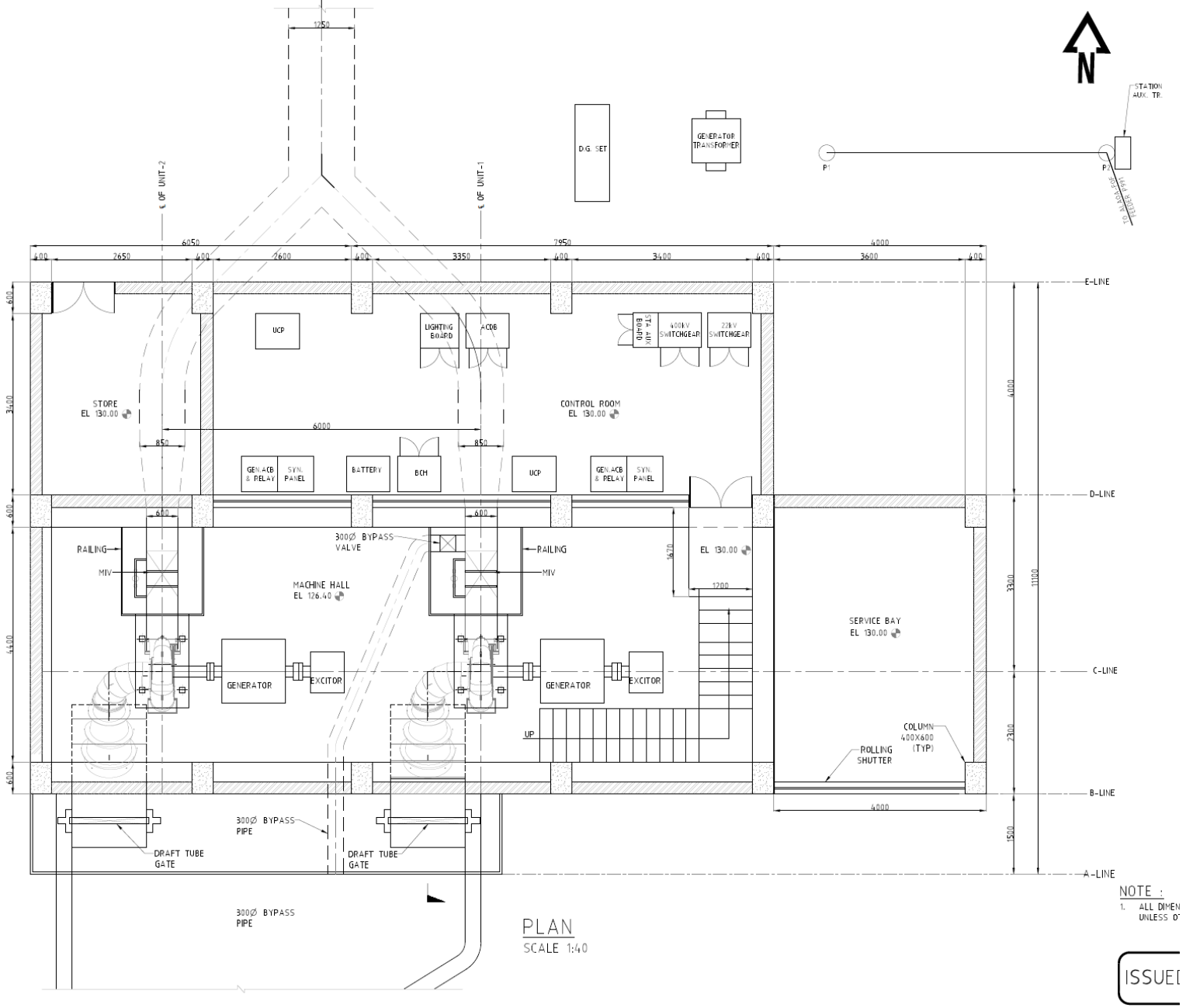
Drawings
Section Low Level Outlet



Drawings
Section Mid- Level Outlet



Drawings
Powerhouse



Graphic Image of Proposed Dam

Entura's Studies

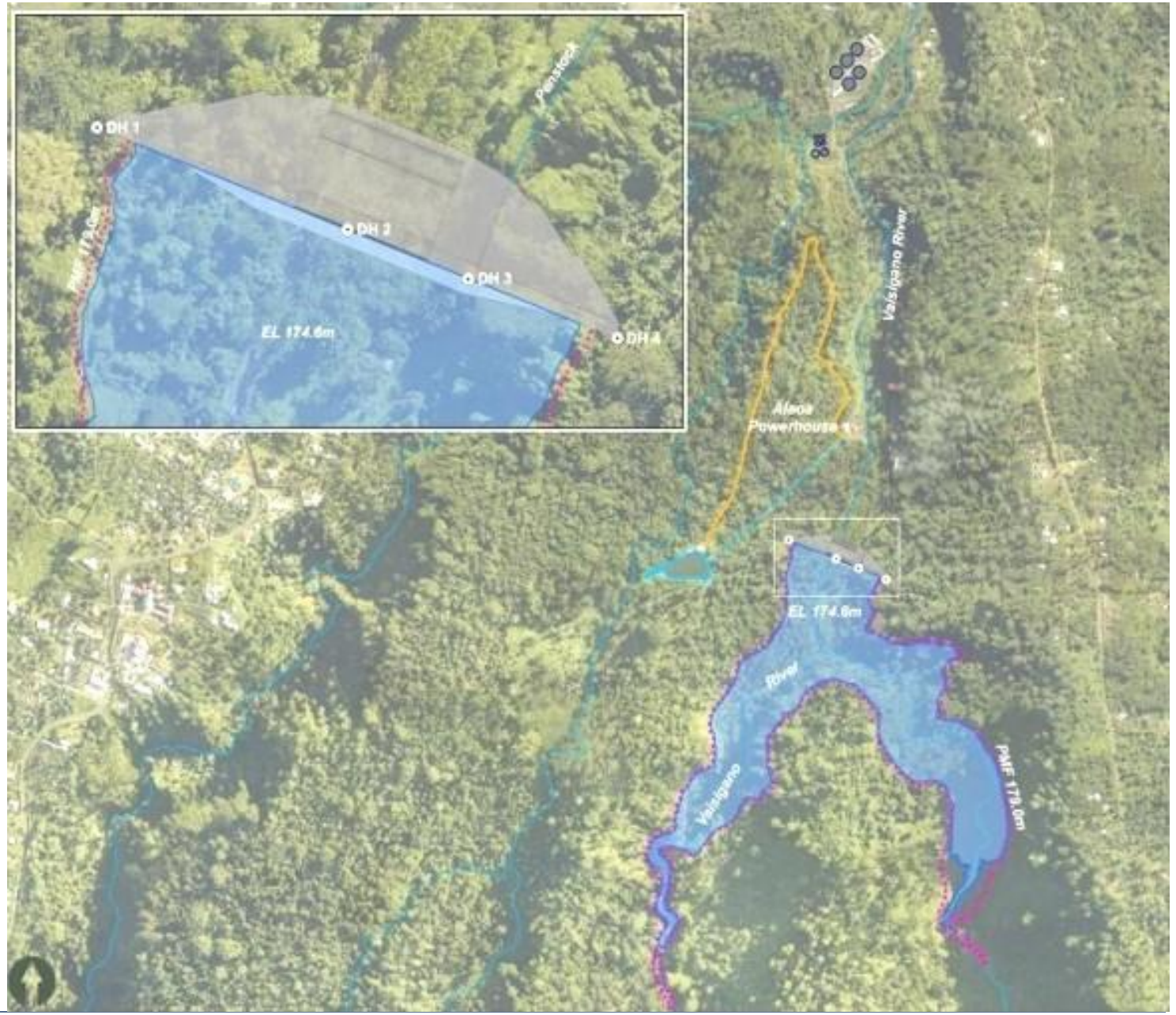
Work has occurred since the beginning of 2018. The overall project has been assessed as technically viable based on

- Topographic Airborne Light Detection and Ranging (LiDAR) survey and geological investigations
- dam site assessment
- hydrology and storage modelling
- climate change impact
- options assessment and development of the adopted arrangement
- environmental and social surveys and assessments
- development of environmental impact assessment and resettlement plan based on ADB environmental and social safeguards.

Geological Investigation Program

- Based on available budget and timeline limited investigations were carried out at the feasibility stage
- Key Risks are: (1) Depth of excavation, and (2) Leakage along Basalt Flows.
- Geological mapping of the site by Entura
- Webster Drilling from New Zealand undertook drilling investigations – Completed June/July 2019
  - 4 drill holes, around 60m deep each
  - Logging of the core
  - Point load testing
  - Water pressure testing of the 4 boreholes in stages
  - Entura had a fulltime geologist on site

Location of Drill Holes



Independent Panel of Experts (IPOE)

- Three Independent Panel of Experts were appointed in 2023 and contracted in 2026 for duration of project
  - Dam design and safety expert (Chair)
  - Geologist / Geo-technical engineer
  - Hydrologist
- IPOE presented their key findings/recommendations on 14 July 2023 to conduct 3 additional technical investigations which were adopted.

Additional Investigations

Additional studies/investigations for the following areas are in progress to mitigate the risks:

- Geological Investigations to manage risks related to
  - Foundation Groutability;
  - Shear strength of interlayers;
  - Foundation erosion potential;
  - Aggregate quality and quantity;
- Site-specific Seismic Hazard Assessment
- Hydrology PMP/PMF

Scope of Additional Geotechnical Investigation

- **Field Investigations**
- Exploratory Boreholes (BH): 10 nos.
- Grout Trial Boreholes (GH): 6 nos.
- Control Boreholes (C): 2 nos.
- Quarry Investigation Boreholes (QH): 3 nos.
- Optional Quarry Boreholes (AQH): up to 6 nos.
- Test Pits: 3 nos.
- **Geophysical Surveys**
- Seismic Refraction Survey (SRT): 15 lines
- Electrical Resistivity Tomography (ERT): 10lines
- **In-situ Testing**
- Packer (permeability) tests
- Downhole seismic (Vp–Vs) tests
- OTV/ATV borehole imaging
- Point load strength tests
- Piezometer installations
- Seismic
- **Laboratory Testing**
- Rock core testing
- Soil testing
- Aggregate suitability testing

Indicative Project Scope (Summary)

Principal Elements of EPC Contractor's Work, Design / Build

- Project design and approvals
- Regulatory Compliance
- Pre-Construction & site setup
- Construction, installation, and commissioning
- Environmental, Safety & Social Management
- Dam Safety and Risk Management
- Quality Assurance & Project Handover
- Training

Indicative Project Scope (Detail 1/4)

Project Design and Approval

- Design and planning
- Conduct required investigations and studies
- Complete detailed design of all project components

Regulatory Compliance

- Ensure compliance with:
  - Environmental Impact Assessment (EIA)
  - Environmental Management Plan (EMP)
  - Biodiversity Management and Monitoring Plan (BMMP)
  - Biodiversity Offset Plan (BOP)
- Prepare design documentation for Planning and Urban Management Agency (PUMA) approvals of Development Consent Permit
- Obtain all required permits, building approvals, and inspections

Indicative Project Scope (Detail 2/4)

Pre-Construction & site setup by Others

- Site Preparation
- Debris and vegetation clearance and removal
- Design & Construction of access road work and bridge

Other Pre-Construction Works by EPC Contractor

- Establishment of temporary construction works
- Establishment of site facilities & utilities(quarry site, batching plant. etc)
- Establishment of site offices, workshops and client facilities
- Construction power and water supply

Planning, design, construction, installation, commissioning & acceptance tests

- Construction of dam and associated permanent works
- Supply of plant, materials, and equipment
- Electrical & Mechanical (E&M) equipment:
  - Procurement, supply and installation
  - Storage, handling and preservation
- Factory Acceptance Testing (FAT) and site acceptance testing
- Erection, testing and commissioning
- Guaranteed performance testing

Indicative Project Scope (Detail 3/4)

Environmental, Safety & Social Management

- Environmental Compliance
- Prepare and implement Construction Environmental Management Plan (CEMP)
- Implement supporting sub-plans and site-specific plans
- Environmental monitoring and reporting
- Compliance with EMP, BMMP, and BOP
- Health, Safety & Risk Management
- Workplace Health and Safety (WHS) plans
- Flood Management Plan, Early Warning System, and Emergency Action Plan (EAP)
- Dam Safety Plan and Dam Safety Emergency Plan
- Social & Community Measures
- Implement Gender Action Plan (GAP)
- Apply core labour standards and fair working conditions
- Implement Grievance Redress Mechanism (GRM)
- Support Communication and Consultation Plan (CCP)

Dam Safety and Risk Management

- Flood Management Plan
- Early Warning System
- Emergency Action Plan
- Workplace Health & Safety Plans
- Fair working conditions implementation
- Dam Safety Plan
- Dam Safety Emergency Plan

Indicative Project Scope (Detail 4/4)

Quality Assurance & Project Handover

- Quality Assurance & Control
- Establish onsite Roller Compacted Concrete (RCC) quality control laboratory
- Prepare:
- Quality Control Plan
- Design Management Plan
- Construction Plan
- Project Completion & Handover
- Provide:
- Operation and Maintenance (O&M) manuals
- As-built drawings
- Training for operators and technicians
- Project handover upon operational acceptance
- Post-Completion Obligations
- Defect rectification during liability period
- Warranty for equipment and works

Indicative Project Components (1/2)

Access & Infrastructure Works:

- Construction of new project access roads
- Upgrading of existing roads
- Road maintenance during construction phase
- Permanent dam access road for future maintenance and silt removal operations

River Diversion Works:

- Temporary river diversion arrangements to facilitate dam construction within the river channel

RCC Dam Works:

- RCC gravity dam structure
- Ogee crest overflow spillway
- Spillway walls
- Flip bucket and plunge pool for energy dissipation
- Low-level outlet with radial gate and maintenance gates
- Mid-level outlet with control valve
- Intake structure with trash rack and maintenance gate
- Dam safety surveillance instrumentation

Indicative Project Components (2/2)

Penstock

- Penstock and penstock manifold

Powerhouse & Electromechanical Works

- Powerhouse on left (west) bank of Vaisigano River
- Concrete/structural steel powerhouse building
- Two horizontal Francis turbine-generator units
- Auxiliary mechanical and electrical systems
- Control building and ancillary facilities

Transmission & Grid Interconnection

- 22kV 50 hz Transmission line construction
- Interconnection with existing power network
- Scada and fiber optice telecommunication connection to Power Co National Control Center

Environmental & Safeguard Implementation

- Implementation of EIA and EMP requirements
- Biodiversity Management & Monitoring Plan (BMMP)
- Biodiversity Offsetting Plan (BOP)
- Environmental compliance during all construction activities

Key Project Requirements

Dam Capacity & Purpose :

- Total storage: 4 Mm^3
- 3 Mm^3 for flood protection (downstream & Apia & neighbour communities)
- 0.5 Mm^3 for water supply
- 0.5 Mm^3 dead storage for sediment control
- Provision for hydropower generation

Hydraulic Performance :

- Spillway to safely pass PMF (Probable Maximum Flood)
- Stable under maximum flood without erosion or undermining

Outlet Works:

- Low-level outlet for sediment flushing & emergency drawdown (within 50 days)
- Mid-level outlet to restore NFSL after flood (within 30 days)

Hydropower & Conveyance:

- Design discharge: 2.78 m^3/s
- Minimum power output: ≥ 0.6 MW
- Penstock with bypass for uninterrupted water supply & environmental flow

Performance Guarantees (1/3)

1. **Reservoir & Storage Capacity**
   - **Flood storage:** 3 Mm^3
   - **Water supply storage:** 0.5 Mm^3 (ensures supply during low-flow periods)
   - **Dead storage:** 0.5 Mm^3 (sediment accumulation)
   - Designed to maintain **100-year operational life**

2. **Outlet Performance**
   - **Low-level outlet:**
     - Sediment flushing capability
     - Full reservoir drawdown within 50 days (emergency)
   - **Mid-level outlet:**
     - Restore reservoir to normal level (NFSL) within 30 days after floods
     - Ensures flood capacity is quickly reinstated

3. **Hydraulic Performance**
   - Rated net head: ≥ 25.97 m
   - Based on design flow and reservoir/tailwater levels

Performance Guarantees (2/3)

4. Turbine Performance

- **Type:** Horizontal Francis turbines (2 units)
- **Capacity:** ≥ 300 kW per unit
- **Operating range:** Up to **125% head (32.46 m)**
- **Efficiency:** ≥ **88.5%** (weighted average guaranteed)

Key requirements:

- Cavitation-free operation
- Stable operation from **40% to 100% load**
- Smooth, low vibration & noise
- Performance verified via **IEC 60041 field testing**

5. Generator & Transformer Performance

- **Capacity:** ≥ 300 kW per unit @ 0.8 power factor
- **Efficiency:** ≥ **95.5%**
- Tested as per **IEC 60034**
- **Voltage 0.415 KV**
- **Padmount transformer 750 kva x 0.415/22 KV**

Additional guarantees:

- Controlled temperature rise (Class B limits)
- Safe operation at **runaway speed (15 minutes)**

Performance Guarantees (3/3)

6. **Design & Operational Limits**
   - Pressure tests at **150% of design pressure**
   - Pressure fluctuations ≤ **2% of head**
   - Noise limit ≤ **85 dB**
   - Vibration within ISO standards
   - Stable governing ensured ($GD^2 \geq 250$ kg·m^2)

7. **Performance Testing & Penalties**
   - Efficiency measured at **100%, 80%, 60% loads**
   - Weighted efficiency formula used
   - **Liquidated damages** applied for:
     - Output shortfall
     - Efficiency below guarantees

8. **Plant Availability**
   - Guaranteed availability (as per IEEE 762)
   - Target: **~99% availability**
   - Contractor required to rectify any shortfalls during defect period

Statutory Requirements (1/4)

1. **Environmental Compliance (EIA & EMP)**
    - Project governed by an approved **EIA & Environmental Management Plan (EMP)**
    - Contractor must:
        - Implement all **environmental mitigation measures**
        - Prepare and execute **Construction Environmental Management Plan (CEMP)**
        - Conduct **environmental monitoring** per EIA
    - Maintain:
        - Site diary & grievance register
    - **Full liability** for environmental damages/restoration

2. **Legal & Regulatory Compliance (Samoa)**
    - Works must comply with **Samoa laws & regulations**, including:
        - Environmental, land, and building laws
        - Labour, safety, and noise regulations
        - Electricity and water authority requirements
    - Contractor responsible for:
        - **Permits, approvals, fees, taxes, royalties**
        - Land clearing and associated costs

Statutory Requirements (2/4)

3. **Health & Safety Management**
   - Must comply with **Samoa OSH Act & Regulations**
   - Key requirements:
     - Develop **Health & Safety Plan (HSP)** (part of CEMP)
     - Conduct **detailed risk assessments**
     - Appoint **Site Safety Officer**
     - Provide:
       - Worker training & inductions
       - Toolbox talks & visitor safety briefings

4. **Safety Culture Framework**
   - Strong **zero-incident safety culture**, including:
     - Proper planning & resourcing
     - Clear communication & training
     - Hazard reporting & investigations
     - Transparent & “just” culture
     - Continuous learning and improve

Statutory Requirements (3/4)

5. **Emergency Preparedness**
   - 24/7 **emergency response capability**
   - Develop:
     - **Emergency Response Plan (ERP)**
     - **Site-wide evacuation plan**
   - Coverage includes:
     - Workers, employer, contractors, visitors

6. **Quality Assurance (QA/QC)**
   - Implement **ISO 9001-compliant Quality Assurance Plan (QAP)**
   - Covers:
     - Design → Construction → Commissioning → O&M
   - Includes:
     - Inspection & testing plan
     - Factory & site acceptance tests
     - RCC (dam concrete) quality control

Statutory Requirements (4/4)

7. **Testing & Compliance**
   - Factory + site tests required for:
     - Mechanical & electrical equipment
     - Materials & structural integrity
   - Includes:
     - Non-destructive testing (NDT)
     - Performance and functional testing
   - Dispatch only after **Employer approval**

8. **Community Engagement**
   - Contractor must ensure:
     - **Stakeholder consultation**
     - Transparent **information sharing**
     - **Grievance redress mechanism**

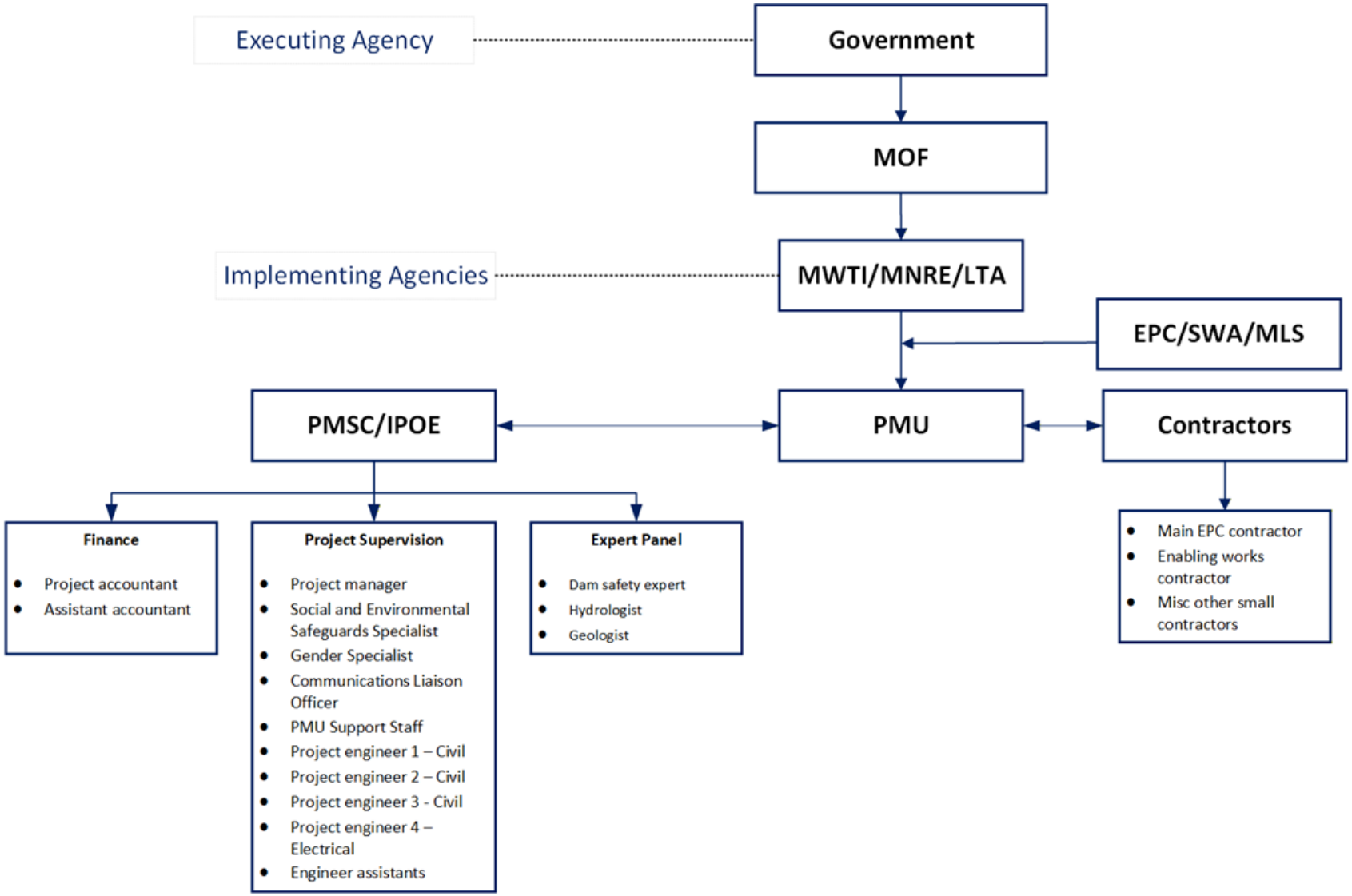
Additional Technical Information Available to Qualified Bidders

- Alaoa Multi-Purpose Dam Project-Final Technical Feasibility Study Report
- Geological Baseline Report, including the Factual Geological / Geotechnical Report
- Seismic Hazzard Assessment & Design PGA For Fukasou Dam, Samoa
- EIA Report (https://www.adb.org/projects/documents/sam-52111-001-eia)
- BMMP and BOP (link to be provided upon completion)
- Resettlement Plan (https://www.adb.org/projects/documents/sam-52111-001-rp)
- Gender Action Plan
- Results and reports of additional investigations
- Update report based on the results of additional investigations

Project Implementation Plan

	Period	2026			2027				2028				2029	2030	2031
	Tasks/Contracts	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
1	**Early Enabling Works**		Prep-n & Bidding		Construction										
2	**Supervision Engineer Cons-t**		RFP	TP- FP eval	Mobilization and Inputs										
3	**IPOE Studies**														
4	PMP-PMF		Study		Update Design										
5	SSSHA		Study												
6	Geotech		Study												
7	**Roadshow**	R													
8	**Prequalification**		Preparation	Submisison	Prequalify										
9	**DB works bidding (1S2E)**			Preparation			Bidding	TBER	FBER	C	Design and Construction				

Project Organisation



Indicative Qualification and Evaluation Approach

Prequalification Criteria Overview

The prequalification process will assess applicants through pass/fail criteria across five categories, followed by rated criteria for shortlisting. The indicative bid evaluation will use a merit-point system to assess technical proposals.

Pass / Fail Qualification Criteria

1	2	3	4	5
Eligibility	**Contract Non performance**	**Financial Situation**	**Experience**	**EHS System**
Nationality*, conflict of interest, ADB/UN eligibility, government-owned entity status	No defaults since Jan 2016; pending litigation must not exceed 50% of net worth	Positive net worth (3 years); min. avg. annual turnover of USD 56M (5 yrs)	2+ similar contracts (>USD 50M each); key activities in RCC, waterway, remote delivery	ISO 9001, ISO 14001 ISO 45001 certifications;

Shortlisting: Applicants meeting all pass/fail criteria are ranked via rated criteria (100 points). Top 6 applicants shortlisted (minimum score: 70/100).

**There are no eligibility restrictions based on nationality*

Indicative Procurement and Evaluation Details (1/5)

Eligibility & Historical Contract Nonperformance (Pass/Fail)

1. Eligibility

1.1 Nationality
- There are no eligibility restrictions based on nationality. Must comply with ADB nationality requirements (ITA 4.2)

1.2 Conflict of Interest
- No conflicts per ITA 4.3 and ITA 4.4

1.3 ADB Eligibility
- Not declared ineligible by ADB (ITA 4.5)

1.4 Government-Owned Entity
- Must meet conditions of ITA 4.6 if applicable

1.5 United Nations Eligibility
- Not excluded under UN Security Council resolutions (ITA 4.8)

Joint Venture Requirements
- All partners must individually meet each eligibility criterion

2. Historical Contract Nonperformance

2.1 History of Nonperforming Contracts
- No contractor default on any contract since 1 January 2016
- Applies to contracts as sole or JV partner

2.2 Bid-Securing Declaration
- Not under suspension for execution of a bid-securing declaration (ITA 4.7)

2.3 Pending Litigation / Arbitration
- All pending matters treated as resolved against Applicant must not exceed 50% of net worth

All criteria above are Pass/Fail. Each JV partner must individually meet requirements unless stated otherwise..

Indicative Procurement and Evaluation Details (2/5)

Financial Situation & Experience Requirements (Pass/Fail)

3. Financial Situation

3.1 Historical Financial Performance
- Audited financial statements for last 3 years
- Positive net worth required each year
- Each JV partner must individually comply

3.2 Average Annual Turnover
- Minimum USD 56 million (last 5 years)
- JV combined must meet full requirement
- Each partner ≥ 25%; one partner ≥ 40%

4.1 Contracts of Similar Size & Nature

Minimum Requirements
- ≥ 2 contracts, satisfactorily completed in last 20 years, at least one of them to be in last 10 years.
- Each contract value > USD 50 million
- Participation as contractor, JV partner, or subcontractor

JV: One partner meets full requirement, or two partners each demonstrate one contract

Similarity Criteria
- New dam construction or major upgrade works
- ≥ 1 RCC or concrete gravity dam ≥ 40m high
- ≥ 1 small hydro installation ≥ 500 kW

Indicative Procurement and Evaluation Details (3/5)

Key Activities, EHS Experience & Organizational Systems (Pass/Fail)

4.2(a) Key Activities – Table A

Must be by Applicant / JV Partner:

- RCC construction method on dams or major infrastructure (batching, placement, compaction)
- Construction in or adjacent to a waterway with flood protection and environmental controls
- Project delivery in isolated, remote, island, or constrained-access environment
- Project delivered under FIDIC-style or equivalent international conditions of contract
- Category A environmental or equivalent high-risk classification

4.2(b) Table B

May be subcontracted:

- Dam engineering per ICOLD, ANCOLD, USACE or equivalent standards
- Foundation grouting in volcanic or fractured rock formations
- Small hydropower installation, testing and commissioning

5. Organizational EHS System

5.1 Certifications Required:

- ISO 9001 Quality Management
- ISO 14001 Environmental Management
- ISO 45001 (or OHSAS 18001) OHS Management
- Or internationally recognised equivalents

Indicative Procurement and Evaluation Details (4/5)

Rated Criteria for Shortlisting (100 Points Total)

Applicants meeting all pass/fail criteria scored out of 100. Minimum 70 points for shortlisting. Top 6 applicants shortlisted. JV: all members combined. (1 of 2)

6.1. Number of Relevant Contracts
20 pts

- Dam, hydropower, or major hydraulic infrastructure contracts completed in last 20 years
- Prime contractor, JV partner, or management contractor only (no subcontractor-only roles)
- Contracts from pass/fail Section 4.1 may be included in the count
- Minimum contract value for counting: USD 50 million

Scoring Methodology:

- ≥6 contracts → weighting 100
- 5 contracts → 80
- 4 contracts → 60
- 3 contracts → 40
- 2 contracts (pass/fail minimum only) → 0

Score = Max (20) x Weighting %

6.2. Similarity to Technical Requirements
20 pts

- 7 technical features assessed in a single contract:
  - (a) RCC dam, concrete gravity dam, or comparable mass concrete hydraulic structure
  - (b) Dam height ≥ 40 m
  - (c) Spillway, outlet works, or major hydraulic appurtenant structures
  - (d) Foundation treatment and/or grouting programme
  - (e) Hydromechanical works (gates, valves, penstocks) and/or small hydropower integration
  - (f) River diversion and/or major temporary works
  - (g) High-hazard dam classification (ICOLD large dam, or equivalent)
- Only features demonstrated within that single contract will be counted

Scoring: 7→100 | 6→85 | 5→70 | 4→55 | 3→40 | 2→25 | ≤1→0

Score = Max (20) x Weighting %

6.3. Scale of Largest Dam Contract
15 pts

- Quantitative data for dam/hydropower/hydraulic references
- Highest value by any single JV member for each sub-score
- Score = SUM of 3a + 3b + 3c (5 pts each)

Sub-score Thresholds:

- **3a Dam Height:** ≥80m→100% | 60–79m→70% | 50–59m→40% | 40-49m→10% | None→0%
- **3b Contract Value:** ≥USD 110M→100% | 90–109M→70% | 70–89M→40% | 50-69M→10% | None→0%
- **3c RCC/Concrete Vol:** ≥200k m^3→100% | 100–199k→70% | 50–99k→40% | <50k→10% | None→0%

Indicative Procurement and Evaluation Details (5/5)

Rated Criteria for Shortlisting (100 Points Total)

Applicants meeting all pass/fail criteria scored out of 100. Minimum 70 points for shortlisting. Top 6 applicants shortlisted. JV: all members combined. (2 of 2)

6.4. Design-Build / EPC Track Record
15 pts

- Applicant must indicate delivery model for each contract:
  - **Design-Build / EPC / Turnkey:** Contractor responsible for both detailed design and construction
- Only completed DB/EPC/Turnkey contracts for dam, hydropower, or major hydraulic infrastructure counted
- Clearly evidenced in Form EXP-1

Scoring Methodology:

- ≥3 contracts → 100
- 2 contracts → 70
- 1 contract → 40
- 0 dam/hydraulic but ≥2 in other sectors → 15
- No DB/EPC experience → 0

Score = Max (15) x Weighting %

6.5. Sensitive Locations
15 pts

- 6 environmental/social features assessed:
  - (a) Category A high env risk (or equivalent MDB classification)
  - (b) Works in/adjacent to waterway requiring environmental flow management
  - (c) Biodiversity, natural habitat, or protected area management
  - (d) CESMP, CEMP, or equivalent ESHS plan approved by employer/lender
  - (e) Community H&S, stakeholder engagement, or grievance management
  - (f) Works in island, coastal, or ecologically fragile environment
- Feature "covered" if demonstrated at least once in any submitted contract

Scoring: 6→100 | 5→85 | 4→70 | 3→55 | 2→40 | 1→25 | 0→0

Score = Max (15) x Weighting %

6. Remote/ Limited-Access Delivery
10 pts

- 4 logistical features assessed:
  - (a) Island, remote, or constrained-access location requiring marine/air logistics for major materials
  - (b) Contractor-established camp, batching plant, and site facilities (not pre-existing infrastructure)
  - (c) Import-dependent supply chain for cement, steel, fuel, or major equipment
  - (d) Extreme weather management (cyclone, monsoon, flood season) affecting construction programme
- Feature "covered" if demonstrated at least once in any submitted contract

Scoring Methodology:

- 4 features → 100
- 3 features → 70
- 2 features → 40
- 1 feature → 10
- No feature demonstrated → 0

Score = Max (15) x Weighting %

7. Understanding of Requirements
5 pts

- Project-specific narrative response max. 6 pages
- Covers:
  - Contract understanding
  - Indicative programme
  - Key impacts and risks
  - Local participation

Scoring Methodology:

- Outstanding→100
- Above Average→80
- Average→60
- Below Average→40
- Poor→20
- Unacceptable→0

Score = Max (5) x Weighting %

Indicative MPC for Bidding Stage

Prequalified applicants will be invited to bid under a single-stage, two-envelope procedure. Technical proposals will be evaluated using Merit Point Criteria before financial proposals are opened and scored. Final criteria, weights, thresholds, and formulas will be confirmed in the bidding documents.

Indicative Evaluation Approach

- Qualification / responsiveness before technical scoring
- Indicative weighting: **Technical 60% / Financial 40% (TBC)**
- Indicative minimum **technical** threshold: **75/100**
- Possible sub-thresholds for **dam safety** and **ESHS**

1. Design Methodology and Dam Safety| 30%

- Hydraulic and structural robustness
- Flood and seismic response
- Compliance with Employer's Requirements
- Dam safety considerations and design reliability

2. Construction Methodology| 25%

- River diversion and temporary works logic
- Excavation and foundation treatment approach
- RCC placement and construction sequencing
- Spillway / hydromechanical works sequencing

3. EHS / Sustainability Requirements| 20%

- Quality of environmental and social management approach
- Biodiversity and habitat mitigation measures
- Environmental flow implementation
- Emergency preparedness and community risk management
- Approach to fulfilling the 50% local labor requirement

4. Key Personnel Qualifications and QA/QC| 15%

- Dam designer and key technical specialists
- Geotechnical / RCC and hydromechanical-electrical interface management
- E&S, biodiversity, and H&S specialist coordination
- Quality assurance, design review, and document control systems

5. Implementation Programme and Logistics|10%

- Realistic implementation programme
- Samoa logistics and mobilization approach
- Testing and commissioning methodology
- Handover, O&M support, and training approach

Indicative only. Final MPC structure, criteria, weights, technical-financial ratio, thresholds, and scoring methodology will be set out in the bidding documents.

Key Contractual and Commercial Topics for Market Feedback

Key Contractual & Commercial Topics

- **Contract Form:** FIDIC Yellow Book 2nd Ed. 2017 (Design-Build)
- **Time for Completion:** ~3 yrs from Commencement; Sections/Milestones possible
- **Defects Notification:** Default 365 days; may differ per Section
- **Delay Damages:** 0.05% of ACA/day (TBC); cap ≤10%; separate LDs per Section
- **Advance Payment:** 10% of ACA (TBC); repaid before 90% certified
- **Performance Security:** Unconditional demand guarantee, 10% of ACA (TBC)
- **Interim Payment:** Monthly; 56-day payment; advance 28 days; late: base+3%
- **Price Adjustment:** Cost Indexation in SBD; coefficients for labor/materials/equipment.
- **Bonus Provisions:** Optional per PCC Part F; early completion/performance (TBC)
- **DAAB / Disputes:** 3 members; SIAC Rules, Singapore
- **Insurance:** Works (repl.+15%); professional liability; third-party; Exceptional Event (TBC)
- **Exceptional Events:** FIDIC 2017 terms; cyclone/seismic risk critical for Samoa
- **Local Participation:** Min 50% local labor (ADB SBD Jan 2026); LP1–LP3 forms
- **Subcontracting:** Max value % TBC; EHS Code compliance; local firm opportunity
- **Currencies:** Multiple currencies (TBC)
- **Taxes:** to be clearly defined as part of bidding documents

Indicative only. Final Contract Terms and Conditions will be set out in the bidding documents.

Key Topics for Discussions

Market feedback will be sought across key areas affecting bidder participation, procurement design, risk allocation, and delivery feasibility. The feedback will support the refinement of the prequalification approach and future bidding documents prior to formal advertisement.

Qualification & Participation

1. Comments on pass/fail qualification requirements
2. Comments on experience and turnover thresholds
3. Views on rated shortlisting criteria
4. Views on local participation expectations
5. Comments on logistics and mobilisation constraints
6. Views on JV / teaming structures and thresholds

Commercial & Contractual

1. Key factors affecting bid / no –bid decisions
2. Comments on payment and security provisions
3. Views on geotechnical and exceptional risk allocation
4. Comments on construction duration, price adjustment, and delay damages
5. Comments on insurance and currency provisions
6. Comments on contract conditions influencing participation

One-to-One Meetings and Next Steps

The one-to-one meetings will be conducted as structured bilateral discussions to obtain more detailed feedback on the proposed procurement approach, qualification framework, delivery risks, and key commercial considerations.

1
Meeting Protocol

Common discussion guide, standardized feedback template, and consistent information for all participants.

2
Feedback Management

Feedback will be recorded, consolidated, and reported on a nonattributable basis.

3
Procurement Refinement

Market input will inform finalization of the PQD, IFP, qualification criteria, and future bidding requirements.

4
Formal Next Steps

The project will proceed to the formal prequalification process through official procurement channels, subject to required approvals.

One to one meetings will be held at «Ramada Suites By Wyndham Wailoaloa Beach Fiji». Please get in touch with the project team to book a time for one to one meeting.