



HITERRA

株式会社ヒテラ

The international arm of Japanese construction.

A builder and a project manager, formed to make Japanese construction capability reachable by an international client. Industrial and infrastructure facilities.

JAPANESE CONSTRUCTION. AND YOU CAN HIRE IT.

TOKYO · AL KHOBAR · 2026



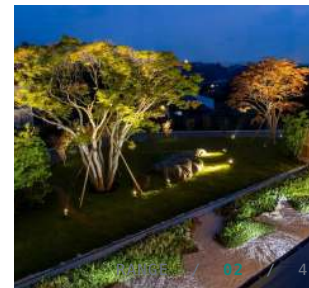
Japanese construction, made available outside Japan

Hiterra was formed by two Japanese companies — a construction business with 122 completed projects, and a project management practice working on major infrastructure across more than thirty countries — to deliver internationally. We build, and we manage. In the Kingdom we contract and build through our registered Saudi entity.

Each category below is supported by a project we have completed.

NATIONAL PAVILION	BIOMASS POWER PLANT	WASTE TREATMENT FACILITY	BIOETHANOL PILOT PLANT	MANUFACTURING FACTORY	FOOD PRODUCTION
FISH PROCESSING AND COLD STORAGE	REFRIGERATION PLANT	DISTRIBUTION WAREHOUSE	AIRPORT LOGISTICS GATEWAY	AUTOMATED SORTING FACILITY	
DEFENCE FACILITY	GOVERNMENT BUILDING	DAM MANAGEMENT BUILDING	VACUUM PUMP STATION	WATER RESERVOIR	VEHICLE INSPECTION FACILITY
HOSPITAL	SCHOOL AND CHILDCARE	HOTEL AND RESORT	PHARMACEUTICAL FACILITY	VISITOR CENTRE	

STEEL → STRUCTURE → BUILDING → FACTORY → PRODUCTION → COLD CHAIN → PROCESS AND UTILITIES → AUTOMATED LOGISTICS → AIRPORT → HEALTHCARE AND CIVIC → GOVERNMENT → DEFENCE → INTERNATIONAL DELIVERY



A builder and a project manager, working together outside Japan

Japanese construction capability is among the hardest in the world for an international client to reach. Most firms will not quote a foreign enquiry, sign with a foreign client, or hold a contract outside Japan. Hiterra was formed to remove that barrier.

THE CONSTRUCTION HALF

122

COMPLETED PROJECTS
FY2022 – FY2025

Structural design and calculation, fabrication, erection, roofing and cladding. Power generation, manufacturing plant, food production, cold chain, distribution, defence and public works — delivered under national contractors and for government clients.

THE MANAGEMENT HALF

30+

COUNTRIES
ON THE OWNER'S SIDE

Project management, site supervision, cost management and contract administration. Rail, airports, water and process programmes for owners, ministries and funding agencies, and current airport logistics work in Japan.

WHY IT MATTERS TO A CLIENT

Most contractors offer one or the other. A client hires a builder, or hires a manager, and carries the space between them.

We enter where a project's design, standards, supply and execution environment do not naturally fit together — because that is where Japanese engineering is worth having, and where a local contractor has no answer.

WHERE WE WORK

JAPAN	Construction, fabrication and project management
INTERNATIONAL	Owner-side engineering, cost and contract management
SAUDI ARABIA	Registered contracting entity holding the client contract and running the site

We are not the largest contractor and do not compete on balance sheet. We compete on knowing exactly how a difficult building goes together, and having done it before.

When the project changes

Every project in this document ran to a date that could not move. These are the four occasions where something changed late, and what happened next.

WHAT CHANGED	WHEN	WHAT WE DID	OUTCOME
The garden zone was redesigned in full	September — four months before opening	Held manufacturing capacity open through the redesign, so fabrication began the day the design released rather than joining a queue behind it	The garden opened with the building
A finish turned out to be a structure	On weighing — 55 tonnes on 9,972 elements	Analysed it as an independent structure, coordinated it back into the frame, and bought rope direct from manufacture at a tenth of the specialist quote	Opened on the date, within budget
A material existed with no certificate and no manufacturer	At specification	Routed raw cork to a maker with material development capability, had it worked into a textile and fire treated, and took it through Japanese fire testing	Three months raw to installed, six weeks of it certification
Pavilions needed dismantling after their delivery teams had demobilised	After close, Expo 2025 Osaka	Took on removal, segregation, disposal and site reinstatement for participants other than our own	Sites reinstated to the organiser's requirement

Why this page exists

A project that runs exactly to plan does not test a contractor. What a client is choosing is how the other kind is handled — and that is difficult to demonstrate except by showing it.

The common thread

In each case the response came before the instruction. Capacity was held, an alternative route was found, or a scope was taken on, because the date was the fixed point and everything else was negotiable around it.

Whatever makes your facility difficult, we have met it before

A facility is difficult for a limited number of reasons. Each has been met on a delivered project.

PROBLEM CLASS	WHAT IT DEMANDS	WHERE WE SOLVED IT
A date that cannot move	Interfaces closed before mobilisation; long lead items released ahead of the package	Seven national pavilions, one opening morning
Material with no supply route or certificate	Material development, treatment and national fire testing inside the programme	Portugal Pavilion — three months raw to installed
Structure carrying process plant	Frame designed for equipment loads, vibration and thermal movement, not occupancy	Ishikari Biomass Power Plant
Building set out around machinery	Column grid, floor levels and penetrations fixed by the equipment layout	FedEx EJP Gateway, Narita
Controlled production environment	Sealed envelope, jointless floors, penetrations detailed rather than cut	Saihaku Factory, 8,684 m ²
Geometry with no repeat unit	Setting out from a single control point; components produced to survey, not nominal	Monaco Pavilion — circular plan
Operational continuity under seismic action	Seismic isolation foundation with precast concrete roof structure	Specialised government facility
Work on an operating facility	Phased handover, access and noise governed by the operation	Acute hospital roof; hotels in live operation
Controlled and security-sensitive sites	Defence procurement route, escorted access, government audit standard	Four Ministry of Defense projects
Multi-party international delivery	Several main contractors, several design teams, three working languages	Programmes across more than thirty countries

Where we have already done it

7 NATIONAL PAVILIONS EXPO 2025 OSAKA	122 CONSTRUCTION PROJECTS FY2022 – FY2025	30+ COUNTRIES THE SENIOR TEAM HAS WORKED IN	5 INTERNATIONAL AIRPORTS ENGINEERED OR MANAGED	2006 CONTRIBUTING TO JAPAN'S NATIONAL COST STANDARD SINCE
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Expo 2025 Osaka SEVEN NATIONAL PAVILIONS · JAPAN-SIDE DELIVERY	Jakarta MRT INDONESIA · STATION AND DEPOT BUILDINGS
Kuala Lumpur International Airport MALAYSIA · DOCUMENTS COORDINATION	Philippines North-South Commuter Railway 100 KM · 20 STATIONS · STATIONED IN COUNTRY
Doha International — Royal Terminal QATAR · DRAWING REVIEW	Ishikari Biomass Power Plant HOKKAIDO · UNDER A NATIONAL CONTRACTOR



WHAT A FIXED DATE DEMANDS

Expo 2025 Osaka

Seven governments. Seven architects. Seven main contractors. One opening morning, and no extension available to anyone.

Every one of them opened on 13 April 2025

Each pavilion was procured separately by a different participating government, through a different main contractor, to a different architect's design. One procurement team ran across all seven.

PAVILION	OUR ROLE	STRUCTURE	AREA
Portugal	Built in Japan under the main contractor — structure, envelope and interior	Steel	1,100 m ²
France	Project management — interior and garden	Steel and fabric	3,600 m ²
Monaco	Construction management	Circular plan	—
Oman	Built in Japan under the main contractor — structure and finishes	Timber	853 m ²
Nordic Circle	Project management — five participating countries	Timber, 17 m	1,200 m ²
India — Bharat	Steel structure, interior and exterior	Steel and tensioned fabric	—
Germany	Steel structure — designed, fabricated and certified in Japan	Steel	—
Angola	Landscape and external works	Module pavilion	—

A finish that turned out to weigh 55 tonnes

RIMOND JAPAN · GENERAL CONTRACTOR



THE CONDITION

The rope envelope arrived as a finish and had to be resolved as a structure. Weighed, it came to **55 tonnes** hung from steel plates fixed to the primary structure — **9,972 rope elements** and recycled fishing nets, three rope diameters, a different count on every plate, and no two support points carrying the same load.

THE RESPONSE

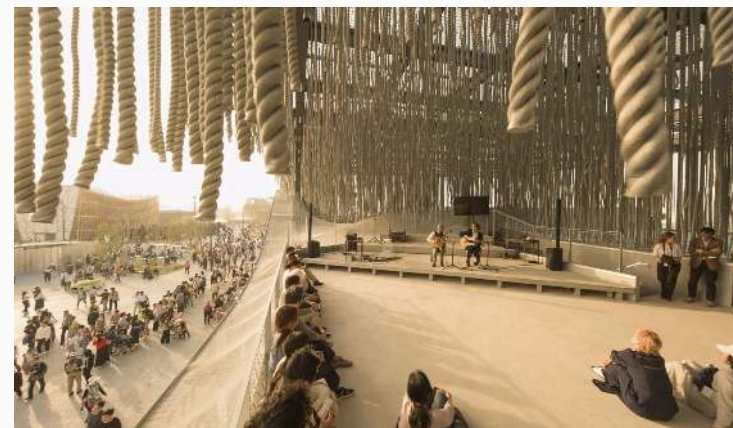
We analysed it as a structure in its own right, separately from the building design, then coordinated it back into the frame. Interior trades do not carry structural dead load, so standard fixings and sign-off routes do not reach it. We bought the rope direct from manufacture; the specialist façade textile route quoted roughly ten times more.

THE RESULT

Nothing could be hung until the frame was complete, so we staged installation upward and held protection throughout. It opened on the date.

WEIGHT	55 t
ELEMENTS	9,972
DIAMETERS	3

A ceiling that had to be calculated, not hung



The projection ceiling is a curved tensile membrane. We calculated tension distribution, hanging arrangement and the statics of every support point as one set rather than resolving them on site — a membrane that slackens unevenly reads as a fault across the whole span, and there is no adjustment available once the projection is aligned to it.

The membrane also carries the image. Surface tension governs focus, so the tolerance is optical rather than dimensional.

WHAT WAS RESOLVED AS ONE CALCULATION

TENSION	Distribution across the membrane surface
SUSPENSION	Hanging arrangement and load path
SUPPORTS	Statics at every fixing point
OPTICAL	Surface tension governing projection focus

A material with no catalogue, no lead time and no certificate



The cork curtain was not a product. No manufacturer made it, so there was no catalogue entry, no lead time and no fire certificate — and in Japan an interior lining without certification cannot be installed.

We routed raw cork to a manufacturer with material development capability, had it worked into a textile and treated with fire retardant, and took it through Japanese fire testing. Three months from raw material to installed surface, six weeks of which was certification alone.

PROGRAMME

RAW TO INSTALLED	3 months
CERTIFICATION	6 weeks
ROUTE	Material development → textile → fire retardant → national testing

SELECTING A MATERIAL WITHOUT FIRST CONFIRMING ITS CERTIFICATION ROUTE IS THE MOST COMMON CAUSE OF LATE INTERIOR SPECIFICATION CHANGE.

The rope comes inside



Retail lighting

Specified to R9 — the deep red index — rather than headline Ra. Cork and textile read as flat and lifeless under a high Ra source with poor R9.

Beam angle

Resolved run by run against mounting height, so illuminance holds across a display without scalloping the wall behind it.

Single batch

Fittings held to one production batch. Colour temperature drift between batches is visible on a continuous run and cannot be corrected afterwards.

Continuity

The rope motif carries from the exterior envelope into the public areas, so the interior detail had to match a structure resolved separately.

Four months of redesign against a fixed opening

PROJECT MANAGEMENT



In September, four months before opening, the garden zone was redesigned in full.

A new design, not a revision. It ran to December, so procurement could not begin until it released and fell into January against an April opening. The principal cladding element alone carried a three-month path.

We held manufacturing capacity open through the redesign period, so fabrication began the day the design released rather than joining a queue behind it. The garden opened with the rest of the building.

AREA	3,600 m ²
FABRIC VEILS	17 m
REDESIGN	September – December
PROCUREMENT	January, against April opening
ARCHITECT	Coldefy / Carlo Ratti Associati

A route, not a set of rooms



A copper-clad winding staircase forms the front elevation and rises to an observation deck. Inside, the visitor moves along a continuous route rather than between rooms, so every junction between finishes is seen in sequence rather than in isolation.

That changes what tolerance means. A step in level or a change in reveal reads as an error when the eye carries the previous condition into the next.

CONDITIONS

ELEVATION

Copper-clad winding stair to observation deck

VEILS

17 m fabric, full height

CIRCULATION

Continuous route, finishes read in sequence

No repeat unit, and no straight line to set out from

CONSTRUCTION MANAGEMENT



A circular plan removes every shortcut an interior relies on.

No repeat units, no standard sheet sizes, no straight line to set out from. An error at the start of a curve does not stay where it was made: it accumulates around the circumference and arrives back, visibly, at the point where it began.

We held setting out from a single control point throughout, and produced curved components to survey rather than to nominal dimensions.

WHAT THE GEOMETRY DEMANDED

JOINERY	Curved, wrapped in fine metal mesh at bar and reception
CEILING	Sculpted freeform, lighting concealed between layers
FAÇADE	Suspended moving elements
SETTING OUT	Single control point, components to survey

One saturated colour across metal, board and curved formers



The same paint reads differently on different substrates. In a saturated colour, batch variation that would disappear in a neutral scheme becomes a visible seam, and small errors in fixing or level are picked up by the colour rather than hidden by it.

We controlled batches across the whole scheme and specified substrate preparation per material. We formed and finished the large radii so the surface stays continuous, and set out the decorative perforation so the pattern resolves at edges and openings rather than running off them.

THE DETAIL THAT WAS NOT ON THE DRAWINGS

The approach corridor runs beneath a glazed ceiling carrying flowing water. The junction between finishes became a waterproofing and drainage problem directly above the visitor route.

TIMBER · 853 M² · SIGONTECH · MACE HELD THE CLIENT CONTRACT, WITH SATO FACILITIES CONSULTANTS

Nowhere to hide anything

PROJECT MANAGEMENT



Timber to 17 metres. The dark exterior is achieved with natural oils and pigments rather than paint, and the structure is left exposed throughout — every fixing visible, every junction a detail, and any movement in the material showing up as a line.

We integrated acoustic treatment into the lining rather than adding it over the top, controlled moisture content on delivery and acclimatised the material before fixing — timber that moves after installation cannot be corrected on an exposed structure.

AREA

1,200 m²

HEIGHT

17 m

PARTICIPANTS

Five Nordic countries

FINISH

Natural oils and pigments, structure exposed

India • Germany • Angola



India — Bharat

STEEL, INTERIOR AND EXTERIOR • BEYOND LIMITS

A colonnade of tensioned fabric petals forms the entrance, with gallery interiors behind. Structure, interior and exterior held in one scope. Awarded Bronze for external design in the module pavilion category by the Bureau International des Expositions.



Germany

STEEL STRUCTURE • GL EVENTS JAPAN

Steel structure designed to Japanese code, fabricated and certified in Japan, and delivered in sequence against the erection programme rather than as a single consignment. Installation by the contractor appointed by the participant.



Angola

LANDSCAPE AND EXTERNAL WORKS • NOE JAPAN

External works and landscape to a module pavilion, where the external envelope is the participant's only elevation. Awarded Gold for external design in the module pavilion category by the Bureau International des Expositions.

A commissioning date that cannot move

A pavilion is a temporary building carrying a permanent building's approval requirements, with no possibility of a late opening. That is the same condition as a plant with a commissioning date, a factory with a production start, or a distribution centre with a peak season.

Fixed public date

Seven buildings for seven separate governments opened on one morning with no extension available to any.

International clients

Seven participating governments, working in three languages against Japanese approval requirements.

Multi-party coordination

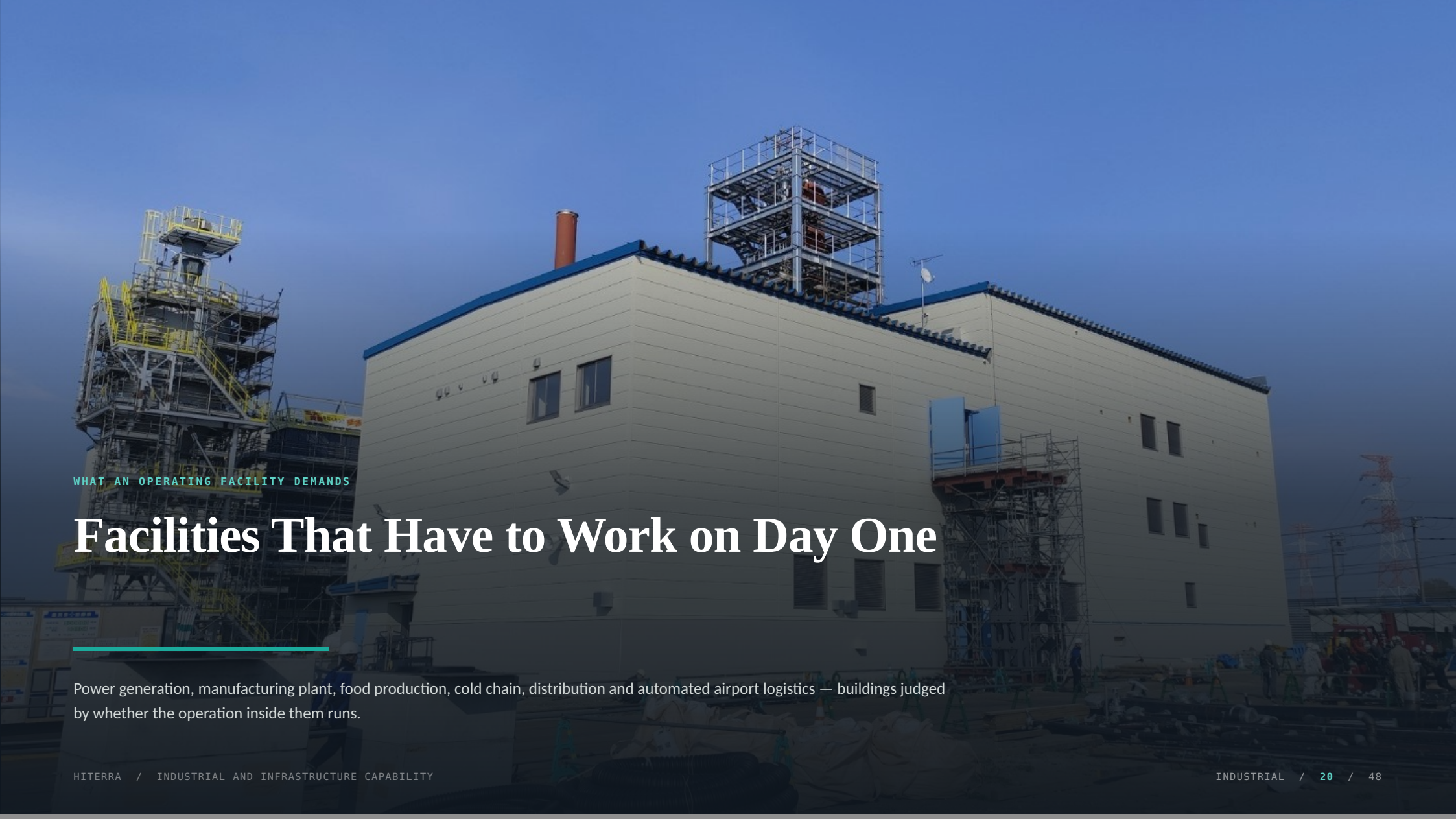
Seven main contractors, seven architects. One procurement team across all seven, so a lesson on one reached the other six the same week.

Materials without a route

Cork worked into a textile, fire treated and through Japanese fire testing in three months — six weeks of it certification.

Shared supply chain

Capacity and priority bought across seven projects that no single project could have commanded.

A large, multi-story industrial building with a light-colored facade and a blue roof. The building is surrounded by scaffolding and construction equipment, indicating it is under construction. A tall crane is visible in the background. The sky is clear and blue.

WHAT AN OPERATING FACILITY DEMANDS

Facilities That Have to Work on Day One

Power generation, manufacturing plant, food production, cold chain, distribution and automated airport logistics — buildings judged by whether the operation inside them runs.

A frame carrying plant loads, vibration and thermal movement

CONSTRUCTION



A generating station delivered across three years, from design work through to the two principal structures.

A power plant is a structural problem before it is a mechanical one. The frame carries plant loads, vibration and thermal movement that an ordinary industrial building never sees, and the equipment arrives on a programme the building has to meet rather than the other way round.

TURBINE BUILDING	1,464.30 m ²
FUEL STORAGE	1,292.75 m ²
MAIN CONTRACTOR	Rinkai Nippon Construction
PERIOD	2023 – 2025

In Hokkaido the erection window is set by the winter

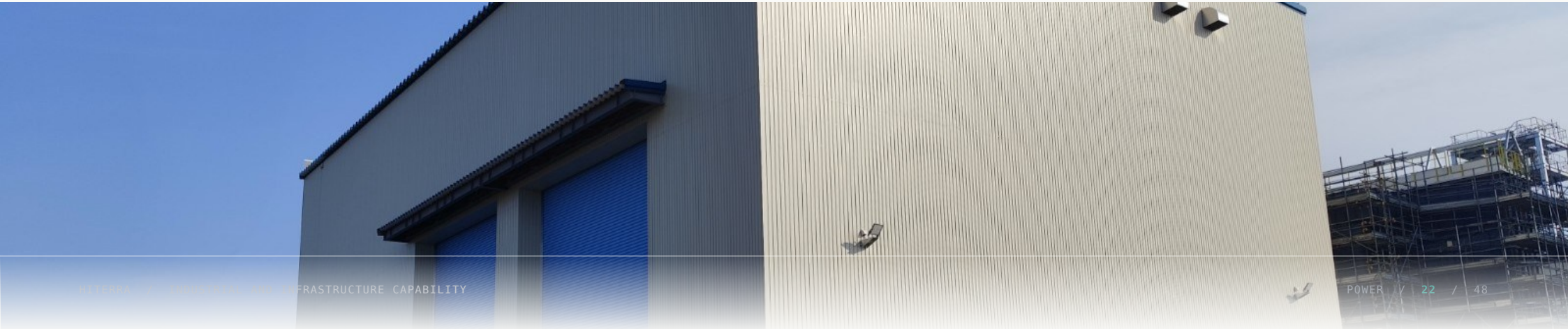
Design work began in 2023, construction followed in 2024, and the turbine building and fuel storage building were completed in 2025 under Rinkai Nippon Construction.

The northern climate does not negotiate. Steel erection, envelope closure and the sequence in which the building becomes weathertight are governed by the season rather than by the contract programme, and a slipped month is not recoverable inside the same year.

We sequenced consignments against the erection plan rather than the shipping schedule, so members were not double-handled and the crane was not waiting.

ALSO DELIVERED IN THIS SECTOR

2024	Bioethanol pilot plant
2023	Ogamo No. 1 power station
2022	Combustible waste treatment facility — civil and building works



A production floor with no joint for contamination to sit in

GENERAL CONTRACTING • 8,684 M²



Office, terminal and factory buildings on one site, delivered as one programme across three buildings.

We finished the production floor in seamless resin, coved to the wall, with no joint for washdown to reach — the specification an industry with hygiene or contamination control requires.

GROSS FLOOR AREA	8,684 m ²
SCOPE	General contracting — three buildings
BUILDINGS	Office, terminal and factory
COMPLETION	2025

Fixing the frame early so fabrication can start before the interior design closes

A pre-engineered steel building system fixes the frame geometry early, so fabrication can begin while the interior design is still developing. For a client whose production line is already on order, that is usually the difference between meeting the commissioning date and missing it.

The approach has since been applied on warehouse and cold storage projects where the same condition holds: the building has to be ready for equipment that was ordered before the building was designed.

WHAT THE SYSTEM FIXES EARLY

GRID	Column spacing and span confirmed before detailed design
FABRICATION	Released against the frame, not the interior
INTERFACES	Equipment supports resolved with the vendor
PROGRAMME	Commissioning date protected



Production facilities built and handed over

Each was built around an operation that had to work on the day the building was handed over.



Yamasho Refrigeration

SAITAMA · REFRIGERATION PLANT
MANUFACTURE

New factory for a manufacturer of industrial refrigeration equipment. Built under Ono Construction.



Sawai Coffee No. 4 Factory

TOTTORI · FOOD PRODUCTION

Roasting and packing facility. Construction delivery.



YAMAKIN Kochi Third South

KOCHI · PRECISION MANUFACTURING

Production facility for a dental and precision materials manufacturer.



Fuji Tamago — ten buildings

TOTTORI · EGG PRODUCTION COMPLEX

Ten-building agricultural production complex delivered as one programme. General contracting.



Togo Electric Works

TOTTORI · ELECTRICAL EQUIPMENT

Manufacturing and assembly works. Construction delivery.

PHARMACEUTICAL MANUFACTURING FACILITIES — WE CARRIED OUT QUANTITY SURVEYING, CONTRACTOR EVALUATION AND COST AUDIT FOR INTERNATIONAL EPC AND ENGINEERING CONSULTANCIES IN 2007, 2016 AND 2024. CLIENT NAMES HELD UNDER CONFIDENTIALITY AGREEMENT.

Buildings that have to be washed down, sealed and held at temperature



PROJECT	LOCATION	FACILITY TYPE	SCALE	YEAR
Shimatani Suisan — surimi production, sorting and shipping	Sakaiminato	Food production and processing	2,794 m ²	2025
Sakaiminato Fish Products Direct Sales Centre	Sakaiminato	Processing and retail	2,218 m ²	2025
Yamasho Refrigeration Manufacturing — new factory	Saitama	Refrigeration plant manufacture	Full facility	2023
Sawai Coffee No. 4 Factory	Tottori	Food production	Full facility	2024
Fuji Tamago — ten buildings	Tottori	Egg production complex	10 buildings	2020
Livido Patisserie frozen warehouse	Yonago	Cold storage	Cold chain	2025

WASHDOWN FLOORS, SEALED PENETRATIONS AND COLD CHAIN ENVELOPES WHERE EVERY STRUCTURAL PENETRATION IS A THERMAL BRIDGE DETAILED RATHER THAN SEALED LATER.

Materials arrive in the order the building needs them

Procurement is sequenced against the construction programme rather than the shipping schedule. On an industrial project the items that decide the date are ordered before anyone has checked whether they can be delivered inside it.



Distribution warehouses, built and handed over



KUMAGAYA TRANSPORT HANYU WAREHOUSE, SAITAMA — 8,420 M². DELIVERED UNDER ONO CONSTRUCTION, 2022

8,420 m²

KUMAGAYA TRANSPORT
HANYU WAREHOUSE



7,612 m²

NX SAKAIMINATO KAIRIKU
TAKEUCHI NO. 3



3,712 m²

NARITA YUME FARM
BARN STRUCTURE



Clear span, eaves height and door position decide a distribution warehouse. Cold storage adds a second problem: the envelope holds temperature, and every structural penetration is a thermal bridge detailed rather than sealed later. Also delivered — Green Cross San'in Logistics, Light Motor Vehicle Association Tochigi, Quality Line, Marukou Transport, Nakahama Transport.

The sorting system is designed before the building around it

PROJECT MANAGEMENT

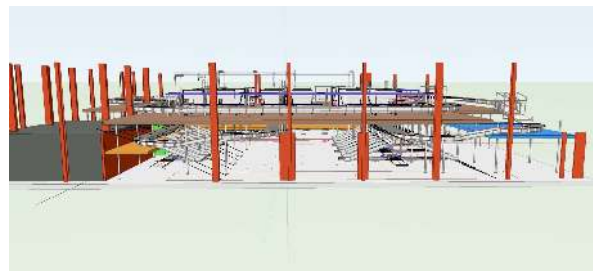
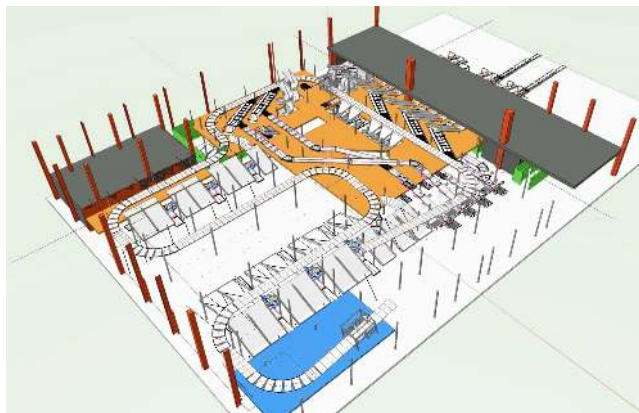


COORDINATION MODEL – SORTER, CONVEYOR LINES AND CHUTES SET OUT AGAINST THE STRUCTURAL GRID OF THE EXISTING CARGO BUILDING

An airport gateway is not a warehouse with a runway next to it. Conveyor lines, chutes and scanning positions fix the column grid, the floor levels and every penetration, so by the time the equipment layout is set the structure has very little freedom left.

FACILITY	Airport logistics gateway expansion
LOCATION	Narita International Airport
ROLE	Project management
STATUS	Current

The building is set out around the machine



SORTER WITHIN THE STRUCTURAL ENVELOPE · LONG SECTION THROUGH THE CONVEYOR HALL · INSTALLED SORTING EQUIPMENT

Structure to conveyor

Support points for conveyor runs and chutes carried by the frame, coordinated with the vendor before the grid is fixed.

Floor and pits

ULD lifter and container lift pits formed in the slab, with flatness and level tolerance set by the equipment rather than the building code.

Envelope penetrations

Conveyor slide gates through the external wall, automatic card-reader gates and security fencing integrated with the building line.

Release to install

The point at which the building is handed to the equipment installer is a programme milestone, agreed and tracked rather than assumed.

Materials handling technology is supplied and integrated by the appointed specialist vendor. The role held is coordination of the building, its interfaces and the construction programme around the equipment installation.



WORKING ON THE OWNER'S SIDE

International Infrastructure

Rail, airports, water and process facilities across Asia and the Middle East — where we acted for the owner rather than the contractor.

Engineering, cost and contract management abroad

We act for owners, ministries and funding agencies as engineering, cost and contract consultants. This is our owner-side work, and it is separate from the construction record in the preceding pages.

SECTOR	REPRESENTATIVE PROGRAMMES
Rail and metro	Jakarta MRT East–West Line, Indonesia · Philippines North–South Commuter Railway, approximately 100 km and 20 stations · Hanoi Urban Railway, Vietnam · Yangon–Mandalay Railway improvement, Myanmar · Kiev Metro Line 1, Ukraine
Airports	Kuala Lumpur International, Malaysia · Second Bangkok International, Thailand · Astana New International, Kazakhstan · New Ulaanbaatar International, Mongolia · Doha International royal terminal, Qatar · New Bacolod, Philippines
Process and utilities	Energy-from-waste incineration plant, 400 t/day, Ukraine · Municipal sewerage, 270,000 m³/day, Hanoi · Rural power distribution, Mongolia · Ice plant and integrated fish processing, Egypt
Middle East	Dubai Municipality Building, UAE, 50,000 m² · Ain Begasu housing programme, Kuwait, 400 ha · Petra Museum and tourism sector development, Jordan · Fish Quality Control Centre, Oman
Pharmaceutical and industrial	Pharmaceutical manufacturing facility — quantity surveying for contractor evaluation · Solid dosage manufacturing building — cost estimation · Pharmaceutical research institute — cost audit. Client names held under confidentiality agreement.
Institutional	1,000-bed hospital, Vietnam · 300,000 m² university campus, Malaysia · embassy complexes · allied military facility projects

Functions performed

Design supervision and construction supervision · tender documentation, bid evaluation and contract administration · cost estimation, quantity surveying and independent cost audit · third-party contractor evaluation · value engineering · technical due diligence

Institutional clients

JICA · NEDO · METI · Japan Ministry of Land, Infrastructure, Transport and Tourism, contributor to national standard construction cost data since 2006 · foreign ministries of tourism and transport · municipal governments · international engineering consultancies and EPC contractors

Nineteen station buildings on one commuter line

PROJECT MANAGEMENT



SUCAT · NICHOLS · ESPAÑA — STATION PERSPECTIVES, SOUTH COMMUTER SECTION, MARCH 2019

The North–South Commuter Railway is the largest infrastructure programme in the Philippines — 147 km from New Clark City to Calamba, 36 stations, financed by JICA and the Asian Development Bank.

We were stationed in Manila from 2018 to 2019 on the South Commuter section, working within the Japanese general consultant appointed for the programme. Station building design, cost estimation and bid documentation from Blumentritt to Calamba.

SECTION	South Commuter — Solis to Calamba
LENGTH	56 km
STATIONS	19
PERIOD	2018 – 2019

One structural system, nineteen sites



BLUMENTRITT · FTI · SAN PEDRO · ALABANG · CALAMBA

STATIONS DOCUMENTED ON THE SECTION

BLUMENTRITT · ESPAÑA · STA MESA · PACO · BUENDIA · EDSA · NICHOLS · FTI · BICUTAN · SUCAT · ALABANG · MUNTINLUPA · SAN PEDRO · PACITA · BIÑAN · STA ROSA · CABUYAO · BANLIC · CALAMBA

Elevated, at-grade and depressed

The section runs over existing rail corridor through dense city, so no two stations meet the ground the same way.

Repetition with variation

A shared platform module and structural system, adapted station by station to site and road interface.

Documented for tender

Design, quantities and bid documentation to the standard an internationally financed programme requires.

Working in country

Team stationed in Manila for the duration, inside the appointed general consultant.



BUILDINGS THAT CANNOT STOP

Healthcare, Civic and Architectural

Healthcare, education and public infrastructure; work within controlled environments; and hotels delivered across structure, envelope and interior.

Buildings that cannot stop operating while work proceeds

A hospital roof, a school in term time and a public visitor centre share one condition: the building stays in use. Access, noise, dust, temporary weatherproofing and the phasing of handover are set by the operation, not by the programme.



HEALTHCARE

Matsue Red Cross Hospital — roof renovation on an operating acute hospital. Work above occupied wards, sequenced against clinical use.

Clinic and care facilities · elderly care facility budget estimation · 1,000-bed hospital, Vietnam, owner-side documentation

EDUCATION AND CHILDCARE

Hino Town compulsory education school — new construction under a three-party joint venture with Mikasa Technics, Links and Daitai Construction.

Yonago Higashi children's centre · Meido Elementary · Kamo and Hoshoji junior high schools · Yonago Kita High School · Midori Kindergarten · Himonya Park nursery

CIVIC AND PUBLIC

Tottori Sand Dunes Visitor Centre — new construction under Yawata Corporation. A public building on a protected dune landscape.

Yonago municipal baseball stadium · Oki exchange stay facility · Higashiyama prefectural swimming pool · Mt. Hyonosen summit facility · Zenhon health centre

Work within controlled environments

Selected government and defence-related projects have been delivered within controlled environments and under client-specific security and technical requirements. Project details are selectively disclosed in accordance with confidentiality and security obligations.

MINISTRY OF DEFENSE

4

Projects delivered for the Ministry of Defense, spanning base infrastructure, government buildings and training facilities.

STRUCTURAL REQUIREMENTS

Operational continuity

Specialised government facilities designed on seismic isolation foundations with precast concrete roof structures — specified where a building must remain operational through an earthquake rather than merely survive one.

OVERSEAS BASE FACILITIES

Allied base facilities

Cost estimation and quantity surveying for base facility and housing renovation programmes, prepared in English to allied federal documentation standards.

FACILITY TYPES

Base infrastructure · government administration buildings · training facilities · specialised operational facilities · controlled-site warehousing · secure perimeter and access infrastructure

What this experience carries

Defence procurement runs its own route, documentation standard, site access regime and inspection regime. A contractor working on a base is cleared, escorted and audited differently from one working on a commercial site, and the record has to satisfy a government auditor.

How this work is evidenced

Drawings, layouts and facility identifiers are held under the security and confidentiality terms of each appointment. Evidence is provided directly to an assessing authority on request, under those terms.

A marine elevation is a corrosion specification before it is an appearance one



Full property delivery across structure, envelope and interior. The coastal elevation is aluminium clad with structural glass balustrades facing open sea, where the specification is governed by salt exposure rather than by finish, and where a fixing selected for appearance fails within a season.

Bathing floors are a waterproofing and drainage problem beneath a stone finish. Volcanic stone was set with falls resolved under the finish rather than corrected on top of it.

SCOPE	Full property — structure, envelope, interior
ELEVATION	Aluminium cladding, structural glass balustrades
BATHING FLOORS	Volcanic stone over waterproofing and drainage
LOCATION	Atami, Shizuoka

Delivered in live and phased operation



Fuji Kawaguchiko Resort Hotel

YAMANASHI · FRONT OF HOUSE, ONSEN, LANDSCAPE

Front of house, open-air onsen and landscape. A washi artwork wall was certified as a wall finish rather than installed as art — the only route by which it could be built into a public area under Japanese fire requirements.



Daisen Lake Hotel

TOTTORI · BESPOKE RESORT INTERIOR

Solid hardwood throughout and private bathing to each suite. Solid timber moves; the detail has to allow for it without opening a joint, which rules out the fixing method a veneer scheme would use.

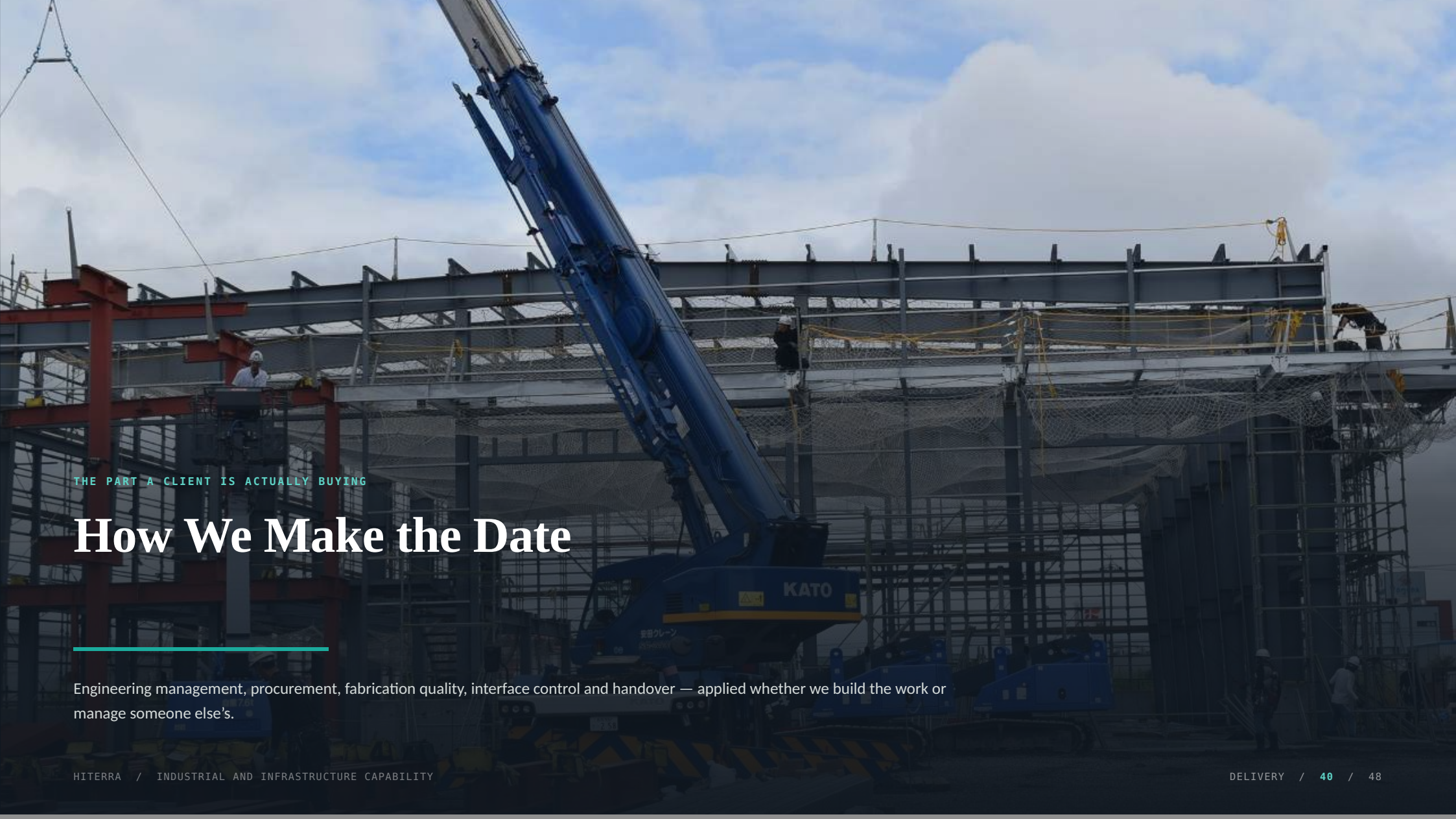


Kokusai Family Plaza

YONAGO · INSTITUTIONAL AND CONFERENCE

Reception and conference interiors in continuous public use. Also delivered — Palace Hotel Tokyo · ANA Hotels brand upgrade, phased in live operation · Embassy of the State of Qatar, Tokyo.





THE PART A CLIENT IS ACTUALLY BUYING

How We Make the Date

Engineering management, procurement, fabrication quality, interface control and handover — applied whether we build the work or manage someone else's.

The conditions that decide an industrial project, and how we answer them

Each pairing below is drawn from a delivered project in this document.

CONDITION	ENGINEERING RESPONSE	WHERE IT WAS DONE
A fixed opening date with no extension available	Interfaces defined before mobilisation, long lead items released ahead of the package, and manufacturing capacity held open through design development so fabrication starts the day the design releases	Seven national pavilions, one opening morning, Expo 2025 Osaka
Plant loads, vibration and thermal movement carried by the frame	Structure designed for equipment loads and dynamic action rather than occupancy alone, with connections engineered rather than left to the installing trade	Ishikari Biomass Power Plant, turbine building
A building that must remain operational through a seismic event	Seismic isolation foundation with precast concrete double-tee roof structure	Specialised government facility
Hygiene and contamination control on a production floor	Seamless resin flooring coved to the wall with no joints for washdown to reach, and penetrations detailed rather than cut later	Saihaku Factory, 8,684 m ²
A structure set by equipment that is designed before the building	Column grid, floor levels and support points resolved against the materials handling layout, with the release point for equipment installation agreed in the programme	FedEx EJP Gateway Expansion, Narita
A material with no supply route, lead time or certificate	Sourced at raw stock, taken through material development, fire retardant treatment and Japanese fire testing inside the programme — three months, six weeks of it certification	Portugal Pavilion, Expo 2025 Osaka

Building the works, and controlling what arrives on site



Shop drawings resolve connections, plates and setting-out before anything is cut. Through production we record mill certificates, welding procedure and dimensional control, and inspect members before despatch rather than discovering a fault on site.

Steel then arrives in the order it goes up. We sequence consignments against the erection plan rather than the shipping schedule, so members are not double-handled and the crane is not waiting.

SHOP DRAWINGS	Connections and setting-out resolved before fabrication
MATERIAL	Mill certificates traceable to installed position
WELDING	Procedure and welder qualification recorded
DIMENSIONAL CONTROL	Checked before despatch
ENVELOPE	Roofing, cladding and penetrations in the same scope

Where a client already has contractors

CLIENT REQUIREMENT	WHAT HITERRA HOLDS	CONTROL ACTIVITY	WHAT THE CLIENT RECEIVES
Confidence that design information is complete and coordinated before it is used.	Review and coordination of engineering information across disciplines and packages.	Design review, deliverable tracking, technical query management, interface closure.	Design status, review comments, outstanding actions, package release position.

INTERFACE REGISTER · EXTRACT

INTERFACE	RESPONSIBLE PARTY	REQUIRED ACTION	DUE	CLOSURE EVIDENCE	STATUS
Equipment support / primary frame	Structural contractor	Load and fixing calculation for review	W12	Calculation reviewed, released	Closed
Equipment foundation / slab	Civil contractor	Setting-out and levels to be agreed	W14	—	Open
Conveyor support / roof structure	Materials handling vendor	Support point schedule for structural review	W15	—	Open
Temporary works / permanent works	Main contractor	Temporary works design submission	W11	Design reviewed and accepted	Closed

FORMAT ILLUSTRATIVE. REGISTER STRUCTURE AGREED WITH THE CLIENT AT MOBILISATION.

The appointed specialist contractor performs the physical inspection and testing within its contractual scope. Hiterra manages the technical requirements, readiness, inspection points, documentation and acceptance process on the client's behalf.

The control systems behind the record

A hundred and twenty projects in three years, across defence, power, food production and airport logistics, are not held together by individual effort. Each of the following is an established procedure, applied whether we are building the work or managing someone else's.

01 Engineering management Deliverable register, multidiscipline review, technical query log, drawing release status.	02 Procurement and packages Scope decomposition, supplier qualification, bid normalisation, long lead register, commitment against forecast.	03 Interface control Junction register with responsible party, required action, due date and closure evidence.	04 Fabrication QA Mill certificate traceability, welding procedure and welder qualification, dimensional control before despatch.	05 Readiness and handover Ready to build, ready to test, ready to accept — each a documented gate with a checklist and an owner.
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Cost and quantity control

Quantity surveying, independent cost audit, bid comparison and value engineering are held in-house. We have contributed to Japan's national standard construction cost data annually since 2006, which is the reference every public project in the country is priced against.

Documentation

We review records for completeness as work proceeds rather than assembling them at the end. On a defence or regulated facility the dossier is the deliverable, and a project that cannot produce it has not finished regardless of what is built.

Procurement — local first

We source material locally wherever the specification and certification route allow it, and import only where no local equivalent can be certified inside the programme. Import is a programme decision before it is a cost one.

Safety managed by method, not by notice

Japanese site practice treats safety as a daily procedure rather than a policy document. The following are applied on site as routine.

KY — hazard prediction

Each work team identifies the hazards of the day's task before starting, in its own words, at the workplace.

Hiyari-hatto

Near misses are recorded and circulated rather than corrected quietly, so a condition found on one face reaches every other.

Shisa kanko

Pointing and calling at defined check points — confirmation made physical rather than assumed.

5S

Site order maintained as a condition of work rather than as a weekly clean, because most access incidents begin as clutter.

On a live building

Where work proceeds above occupied wards, in term time, or in an operating hotel, the safety case covers the public as well as the workforce. Access routes, noise windows and temporary weatherproofing are agreed with the operator before mobilisation.

On a controlled site

Defence and government sites impose their own access, escort and audit regime. Personnel are cleared individually and records are kept to the standard the authority requires rather than the standard the contract sets.

NO ISO CERTIFICATION IS CLAIMED. WHERE A PROJECT REQUIRES CERTIFIED SYSTEMS, THE REQUIREMENT IS MET THROUGH THE APPOINTED CONTRACTOR AND EVIDENCED AT PREQUALIFICATION.

How to hire us, depending on where your project has reached

YOU HAVE A SITE AND A REQUIREMENT

We design and build it

Structural design and calculation, fabrication, erection, roofing and cladding, and coordination of the trades that complete it. One contract, one accountable party.

YOU HAVE A MAIN CONTRACTOR

We take the structure and envelope

A defined package inside a main contractor's programme. Most of the Japanese record was delivered this way, under national contractors.

YOU HAVE CONTRACTORS AND NO INDEPENDENT ENGINEER

We hold the technical position

Where contractors are appointed and the client needs an independent technical position: engineering review, procurement, interfaces, inspection and handover.

Interfacing with process technology

We deliver complete building envelopes, heavy structural frames and the coordination that lets them receive process plant — engineered to interface with international equipment vendors. Equipment loads, foundations, penetrations and setting-out are resolved with the vendor before the frame is fixed.

Where the work is performed

We build and we manage, from one contracting party. The role we held on each project is stated alongside it, and the complete project register and corporate documentation are issued with any prequalification submission.

In the Kingdom

A registered Saudi contracting entity holds the client contract and runs the site, employing under Saudization and carrying regulatory compliance and local content obligations.

Japanese delivery, held by a Saudi contract

An industrial investor building in Saudi Arabia has two problems that are usually solved by two different organisations. We hold both.

The first is technical: the facility has to be engineered, procured and built to the standard the parent company expects, with documentation the parent's engineers can read. The second is local: the contract has to be held by a registered Saudi company that can run a site, employ under Saudization, clear the authorities and hand over.

Japanese engineering, construction and project management on one side. A fully registered Saudi contracting entity on the other — commercial registration, tax and VAT registration, municipal licence and social insurance registration, employing under Saudization and carrying local content obligations.

Our Saudi contracting entity operates in the Eastern Province in partnership with Tamimi Holding, and has delivered work on their projects in the Kingdom.

WHERE WE CAN BE BROUGHT IN

FEASIBILITY	Structural approach and budget range before a full design exists
DESIGN AND BUILD	Structure, envelope and the trades that complete the building
PACKAGE DELIVERY	Structure and envelope inside a main contractor's programme
SUPPLY	Engineered, fabricated and certified steel against your erection programme
OWNER-SIDE CONTROL	Engineering management, procurement, interfaces, inspection and handover





HITERRA

APPOINTMENT

We hand over a facility that works. On the date we said.

Engineering, procurement, construction and handover of industrial and infrastructure facilities — through a Japanese engineering and construction platform and a registered Saudi contracting entity.

Send us a footprint, a use and a required clear height. We can return a structural approach and a budget range before a full design exists.

JAPANESE ENGINEERING. DELIVERED ON THE DATE.

ENQUIRIES

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