





Welcome

The importance of Construction and Demolition Materials Recycling field lies in keeping the environment clean and preserve our natural resources as reusing construction and demolition waste can save much energy and prevent carbon emissions by tenfold saves energy and reducing landfill waste.

Energy Savings: Recycling saves large amounts of energy, and in general it decreases the consumption of natural resources to produce new materials, help reduce your carbon footprint, and mainly helps reduce the need for harvesting raw materials

Within this profile pages we will give you a tour in this work field and how we can help you achieve these results





Chief Executive Officer Message:



Since the establishment of the Group, we have been committed to launching our operations and projects based on clear strategic foundations—focused on building impactful companies and delivering added value across various sectors. Our project management approach is hands-on and pragmatic, centered around quality, commitment, and the cultivation of strong relationships with our partners, shareholders, clients, and employees alike.

Through partnerships with leading institutions such as "Tadweer," we have solidified our presence in areas that significantly impact both the economy and sustainability. We have contributed to the development of thoughtful solutions that serve a wide range of sectors. As we move forward, we remain dedicated to evolving flexible and scalable business models that align with change and meet the demands of future markets.

Organizational excellence is never accidental—it is the result of a balanced vision, methodical work, and a team that believes in potential and transforms challenges into opportunities.

Ramy Youssef Alkhawaja
Chief Executive Officer







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Who We Are?

Al Dhafra Recycling Industries formerly operated in the Emirate of Abu Dhabi and is currently based in Dubai, United Arab Emirates.

The company was previously a strategic partner of Tadweer – The Center of Waste Management.

Al Dhafra Recycling Industries was responsible for the processing of construction and demolition (C&D) waste across Abu Dhabi. Its core mission was to reduce the volume of C&D material ending up in landfills by producing high-quality recycled aggregates suitable for road base and both structural and non-structural backfilling applications.

The operations aligned with Abu Dhabi Executive Council regulations, particularly Resolution No. 2008/373, which mandated the use of a minimum of 40% recycled materials in construction projects, where available—supporting national efforts to preserve natural resources and promote sustainability in the built environment.



Former Partner: Tadweer

Tadweer

Formally known as the Center of Waste Management Abu Dhabi, Tadweer is the leading provider of comprehensive waste and environmental services in the UAE.

Tadweer's vision is to create a quality environment through dedicated leadership and educational partnership to reduce wastage while promoting recycling and resource conservation. For more information, visit www.cwm.ae

Tadweer Mission

Building Integrated Systems For Waste Management & Pest Control, & Providing Added Value Services To Customers & Society In Accordance With Approved Standards & Practices Through Building Effective Partnerships & Investment Of Assets, Financial, Human, & Technical Resources In Pursuit Of Sustainability By Conserving Natural Resources & Creating a Responsible Society That Contributes To Reducing Of Waste Generation & To Transform Waste Into An Economic Pillar For The Emirate Of Abu Dhabi

Tadweer Vision

Towards a Sustainable Waste Management & Pest Control System In The Emirate Of Abu Dhabi

Tadweer Values:

Sustainability . Excellence and Innovation . Accountability . Efficiency . Engagement Achieving Result









Why Us?

We built our success throughout our previous years of experience on the appropriate understanding of the specificity of each case of our clients' projects, whose precious trust we gained. International and global keeping pace with the goals of sustainable development and modernizing our business strategy by introducing solar energy in our plant

« As will as the IoT technology will enable the C&D Waste Recycling Station to increase operating time to the maximum limit, while also improving energy efficiency through the use of smart remote movement sensors which will monitor the station's assets and machinery, as this technology will connect every device using a cloud-based platform that can produce a detailed analysis of every device's status.

In addation to smart wireless sensors monitor critical assets in the recycling plant, linking each device to the Sensoteq Analytix cloud platform that allows for detailed analysis of the device's health status.»

You can know more details by visiting company website and through Construction WeeK Article

Source: * Construction WeeK Article: Tadweer applies IoT technology at C&D waste recycling station



When you put the whole picture together, **Recycling** is the right thing to do.















World orientation towards sustainability and net zero

Supporting Sustainable Development Goals

Where the issue of environment and sustainability has become a

global issue, the current researchs in construction fields aims to identify the employment of the dimensions of sustainable development in construction and waste recycling to develop environmental awareness, as the environment is considered one of the global problems that have become preoccupying many thinkers and researchers in environmental affairs.

As the current era is witnessing rapid scientific and technological progress and development in various fields of life, especially in the field of environment. In order to keep pace with this development and progress and the resulting important issues and dimensions in all economic, social and scientific aspects,.

This development must be reflected on an important group of society in issues of environmental awareness and sustainable development. The importance of our work lies in employing the dimensions of sustainable development in materials and waste recycling to develop awareness environmental.

SUSTAINABLE GALS DEVELOPMENT GALS































Our Work & Sustainability

Sustainable & Environmental Achievements

2011: Participation of Al Dhafra C&D Recycling facility in the 2011 Publication "Etihad Rail Waste Recycling will save 5 million Truck Kilometres" that aims to supply at least 750,000 tonnes of recycled aggregates.

2017: The launch of Sustainable Construction and Demolition Waste management guideline.

2017: Winners of 2017 MENA Green Building Awards honored for innovation and excellence in sustainability practices by Emirates Green Building Council

2018: ENERWHERE has been contracted by Al Dhafra Recycling Industries since January 2018. A leading specialist in Solar plants and sustainable energy provider in the region.

2020: The recognition of Al Dhafra Recycling facility towards increasing the solar capacity to help lower its carbon footprint by avoiding more than 1,300 tonnes of carbon emissions







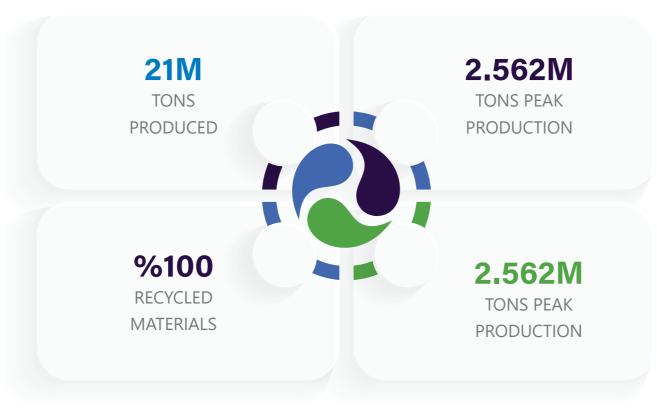
^{*} Source: Construction WeeK Article: Tadweer applies IoT technology at C&D waste recycling station



Our Impact

Since its establishment in 2010, Al Dhafra Recycling Industries (ADRI) has solidified its position as a leading entity in the recycling of construction and demolition waste in the Emirate of Abu Dhabi. Over the course of more than a decade, the company has successfully processed over 21 million tons of such waste, transforming it into valuable resources. Approximately 20.8 million tons of recycled aggregates have been sold and utilized in infrastructure, roadworks, and public utility projects.

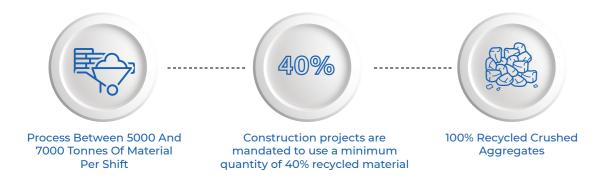
In recent years, the company has recorded a steady increase in production output, with operational capacity consistently exceeding two million tons annually. This growth reflects the efficiency of ADRI's operations, the market's growing confidence in its products, and the company's pivotal role in supporting the circular economy and reducing dependence on natural resources. These achievements are a testament to a clear strategic vision centered on environmental sustainability and operational excellence—fully aligned with the United Arab Emirates' goals for waste management and sustainable development.







Our Work & Accreditations

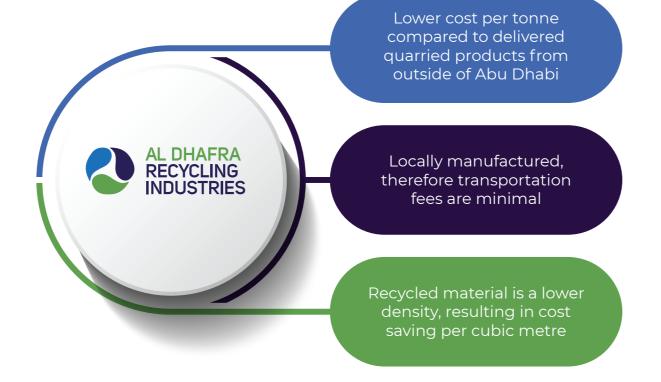


Accreditations

Al Dhafra Recycling Industries has received accreditation from the following organisations:

- Tadweer/Centre of Waste Management
- Abu Dhabi Quality & Conformity Council
- ISO Certified
- Zonescorp
- Environment Agency Abu Dhabi (EAD)
- Abu Dhabi Chamber of Commerce
- Abu Dhabi Civil Defence

Use of recycled construction and demolition materials also yields a number of commercial benefits, including:







ISO Certifications

Al Dhafra Recycling Industries operates according to Management Systems for Quality - ISO 9001:2008, Environment - ISO 14001:2004 and Health and Safety - ÓSHAS 18001:2007. Product testing is performed by a leading independent test laboratory.

















Our Capabilities

In line with Abu Dhabi Government's vision for sustainability, and under the Government concession awarded in 2009, Al Dhafra Recycling Industries, and Tadweer, facilitate the receiving and processing of construction and demolition material, such as concrete, asphalt and excavation material.

Al Dhafra Recycling Industries has the capacity, resources and expertise to design, build and operate numerous resource recovery projects via the collection, tracking and processing of construction and demolition materials.

All materials sent to the recycling plant are inspected for suitability before processing. Metals and other non-suitable materials are extracted before the construction and demolition material is diverted to the processing plant.

Following additional product testing by third party independent laboratories, well-graded recycled material (37-mm) is produced, which is used for road-base, sub-base, structural fill, trench bedding, hardstand and low-dust asphalt products.

All recycled material produced at Al Dhafra Recycling Industries is %100 recycled crushed aggregates. Use of recycled crushed aggregates also achieves:









Our Clients

Through company work journey; our clients, customers, companies from many construction industries, and from both governmental and private sections have relied on us, and we were keen to provide tailored materials solutions for our clients to facilitate their building and infrastructure results and strategy development.

Recycled material is currently being used as road base for construction in various prestigious projects such

- Abu Dhabi Airport Company Abu Dhabi Airport T3 Project
- · Abu Dhabi Municipality Abu Dhabi City road works
- Abu Dhabi National Oil Company (ADNOC)
- Abu Dhabi Ports Company Khalifa Port Project
- Etihad Rail Shah-habshan-Ruwais Railways
- Habshan Crude Oil Pipeline for IPIC
- Shah Gas Development
- Western Region Municipality
- DoT / Musanada

For example part from our work steps is attend internal quality audits performed in accordance with schedule & address opportunities for improvements (OFI) & Major/Minor non-conformances raised as Audits are scheduled and planned through the Site HSE Activity Tracker and Attend internal quality audits & action system deficiencies where identified in a timely manner, this step and the rest of Al Dhafra Recycling Industries work process is supervised precisely and in detail to assure quality as it should be.







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Quality and Performance

International &
Local experience
demonstrates that
recycled products
perform as well if not
better than virgin natural
materials

Environmental

- Fits Abu Dhabi's vision for sustainability/ESTIDAMA requirements
- More than %50 reduction in waste to landfill
- Reduced greenhouse impact (production and transportation of quarried products)
- Reduced reliance on natural resources
- Recycling Steel

Financial/Commercial

- Cost competitive compared with delivered quarried products
- Lower density of material results in savings {%20-15 SAVING}





RCA Applications

The materials received in our plant are Construction and Demolition materials which are all covered by the C&D concession, as such, we hereby confirm that the material produced from our plant is %100 Recycled Crushed Aggregates (RCA).

The material produced is a 0-37.5mm well graded meeting the requirement of Recycled Crushed Aggregates for Base Course and Sub base specifications.







Products: Recycle Crushed Aggregate (37-0mm)



Aggregates Single Size to be added in;



Precast, Blocks and interlocking Factories

Asphalt
Wearing & Base
course
mix designs

Pavement & Pipe Bedding

Recycled Asphalt Product (Crushed Asphalt 37.5 mm- 0mm) over 300,000 tons available





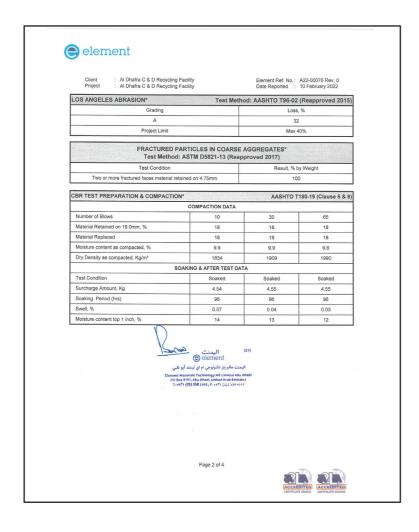
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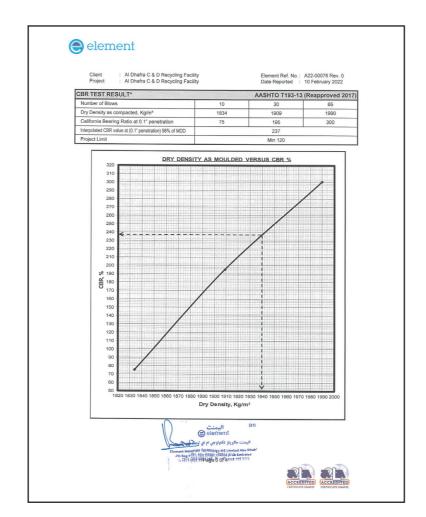


MaterialsSpecification

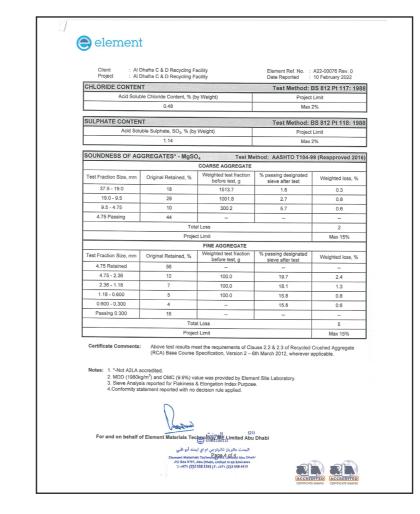
Sampels for detailing the specifications that are applicable for each Raw Material or Consumable, each as mutually approved in writing by the parties.



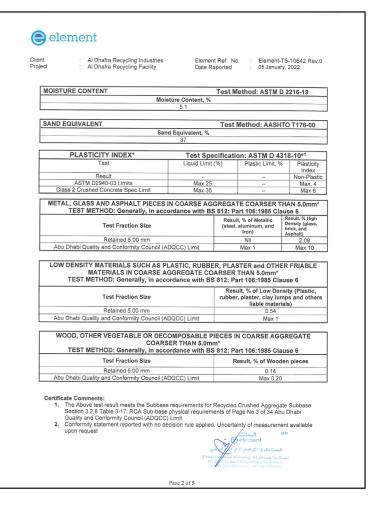




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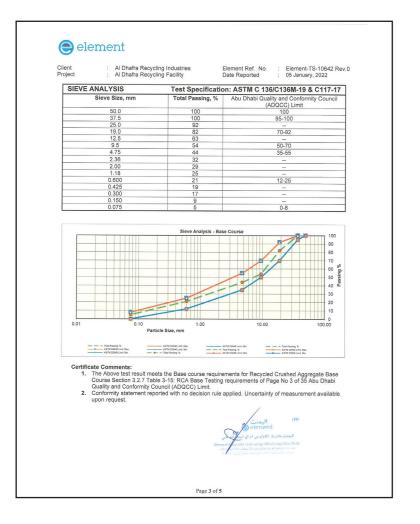




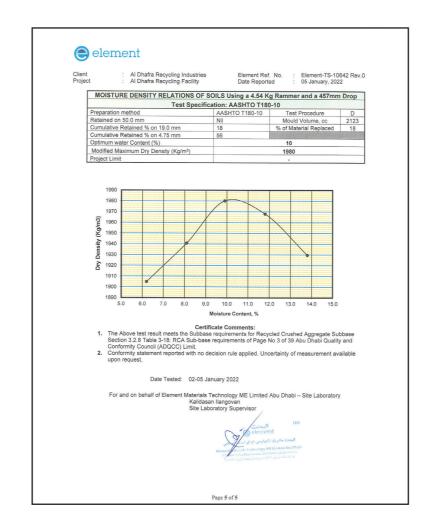


MaterialsSpecification

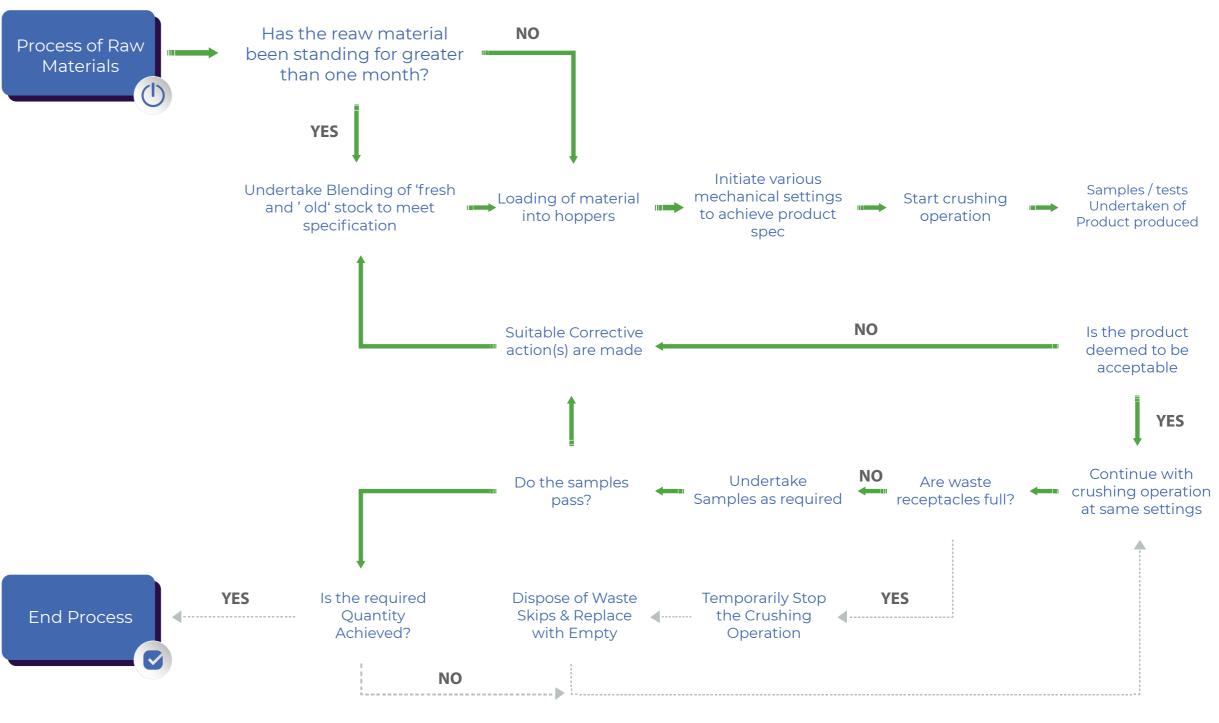
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Incoming Material Process Flowchart



Quality Management Plan

The Quality Management Plan (QMP) describes the approach to quality management (QM) on the Project or Operation. The objectives of the plan are to:

- Provide the framework for how QM processes will be managed to support successful Project delivery and Operational Activities
- Detail how the Project / Operation will ensure compliance with the Al Dhafra Recycling Industries Quality Manual, relevant legislative and contractual requirements
- Communicate roles and responsibilities
- Identify supporting procedures and tools.

Plan Structure

The QMP has the following structure:

Part A

A plan overview that clearly defines:

- Quality Manual Elements and Expectations
- Legislative and Client requirements
- Key performance indicators

Part B

An implementation plan that describes:

- How the Project / Operation will meet each Element and Expectation
- Responsibilities for each Expectation
- The Procedures and Deliverables for each expectation

Annexures

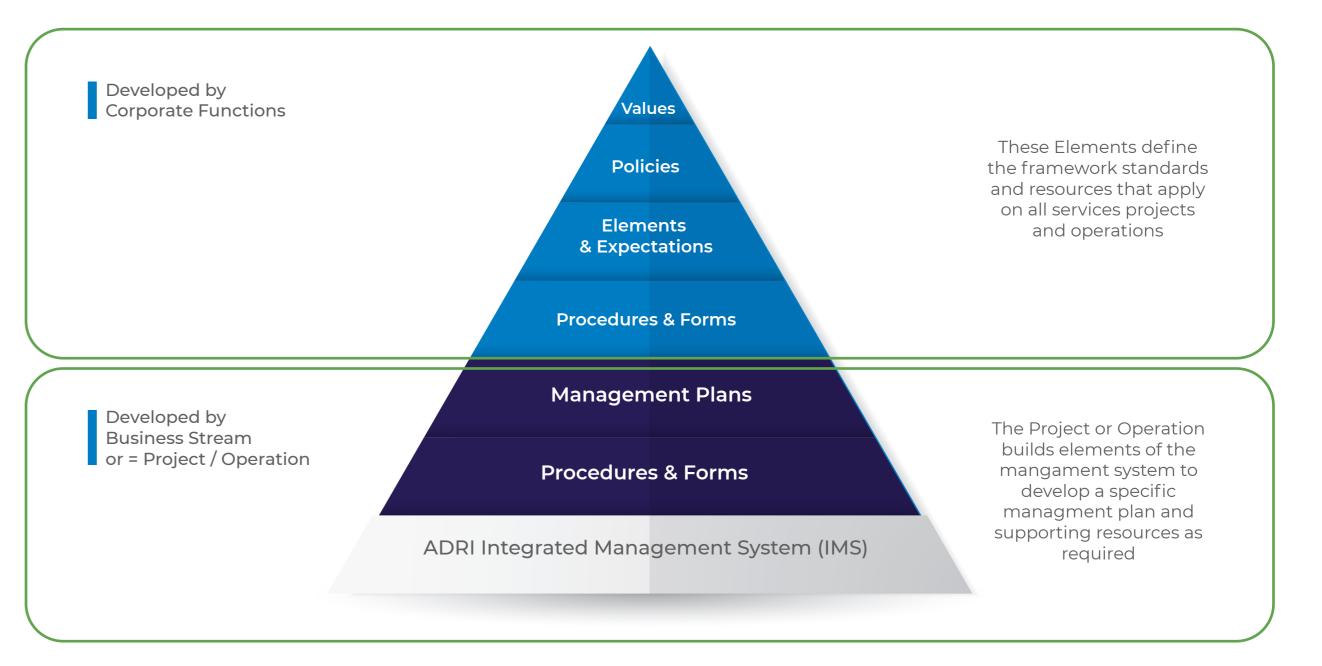
Provides the supporting detail behind the methodology and systems used to support the implementation plan

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Al Dhafra Recycling Industries Integrated Management System (IMS):

The Al Dhafra Recycling Industries IMS is an integrated set of tools and resources that define how we manage quality, health & safety and environment at all levels of our business. It has the following structure:



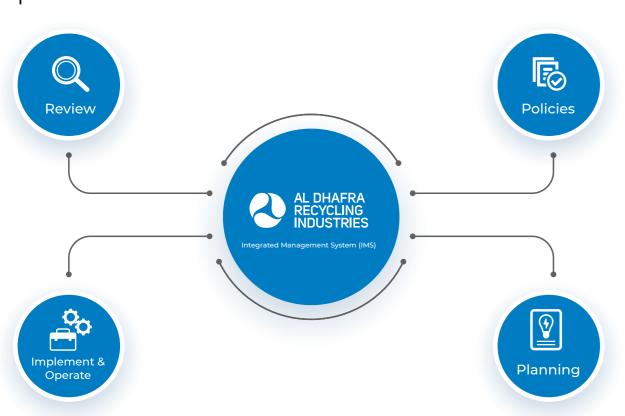




Quality Management Plan

Integrated Management System Continuous Improvement

The Al Dhafra Recycling Industries IMS has a continuous improvement mechanism embedded in its Elements:



Elements and Expectations

The QMP is based on the Al Dhafra Recycling Industries Quality Manual set of 11 Elements that describe requirements for quality management. Each Element is supported by a short intent statement and a set of expectations or key outcomes to be delivered as part of that Element.

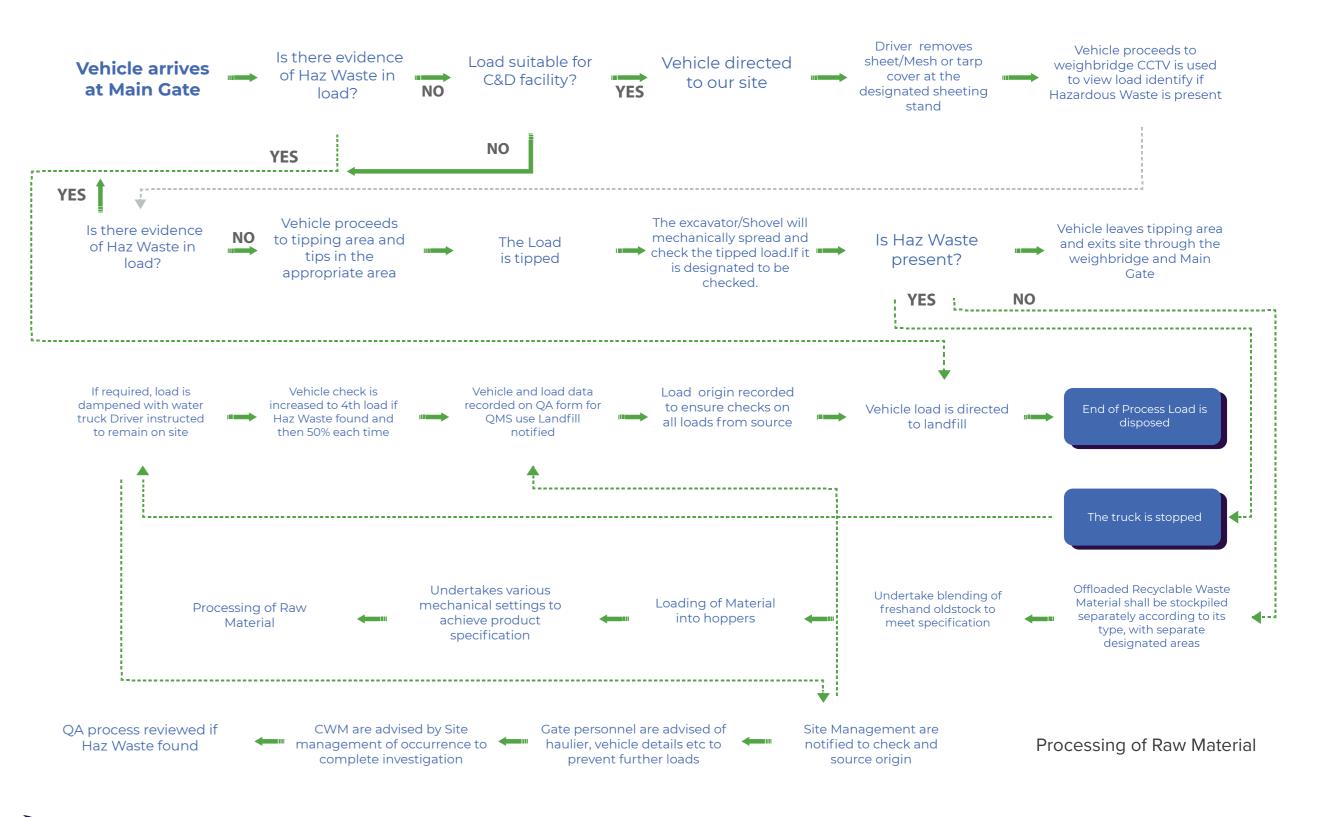
- Element Key aspects for managing this function on the Project
- Intent A one-line statement describing the overall purpose of the Element
- Expectation The high-level outcomes achieved as part of each Element.

This hierarchy provides a consistent structure that is applied across all work management plans, and these elements are:

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- Element 1: Leadership, Accountability and Culture
- Element 2: Planning
- Element 3: Product, Materials, Sub-contractors and Suppliers
- Element 4: Work Procedures
- Element 5: Resources, Training, Induction and Competency
- Element 6: Stores and Incoming Goods
- Element 7: Inspection & Testing
- Element 8: Conformity
- Element 9: Document & Record Management
- Element 10: Monitor Process Performance
- Element 11: Audit & Review



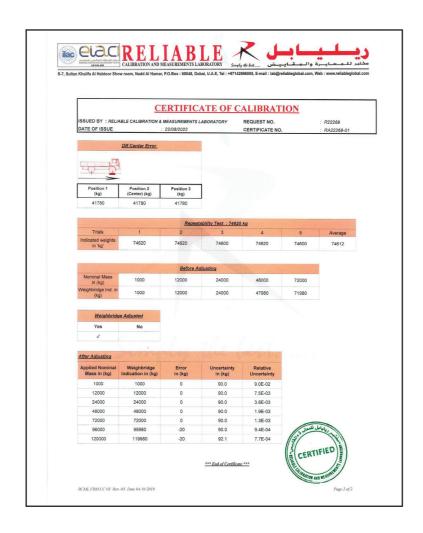




Equipments Certification of Calibration

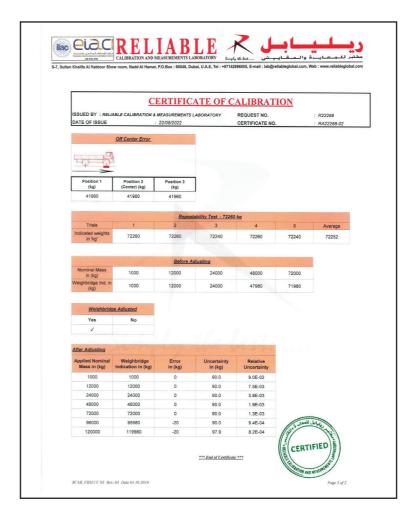
Samples of documents contains information about part of our devices calibration. This certificate provides valuable information on the quality and measurement accuracy of the device.

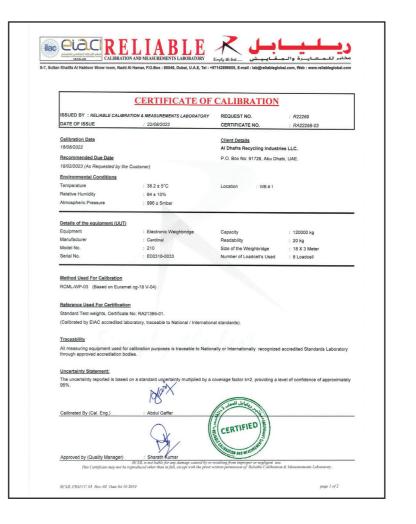


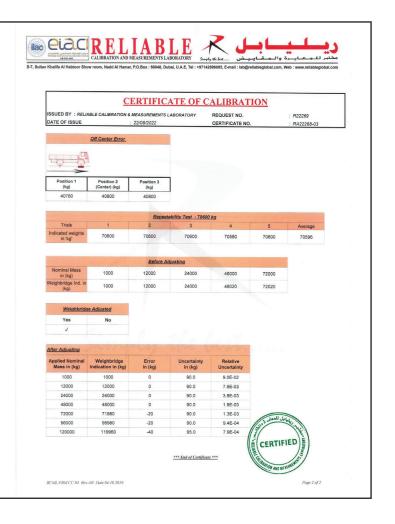




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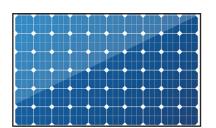








Recognitions and Awards



HOME / ENERGY

Tadweer opens phase wwo of solar power plant at Al Dhafra

The Abu Dhabi Waste Management Center (Tadweer) has announced the opening of the second phase of the solar power plant project at the Construction and Demolition Waste Recycling Facility in Al Dhafra region of Abu Dhabi.

Aimed at lowering the facility's carbon footprint, Al Dhafra C&D Waste Recycling Facility, the first of its kind in the world to be 90 per cent solar-powered, is aligned with the country's ambitious plans to mitigate climate change including the UAE Green Agenda Programs (2030-2015) and the National Climate Change Plan of the UAE (2050-2017),

With completion of the second phase, Tadweer, in close coordination with the investor of Al Dhafra C&D Waste Recycling Facility, has significantly enhanced the facility's solar energy utilization by increasing its capacity to 600 kilowatts per hour, up by 350 kilowatts per hour.

In addition to enhancing the facility's operational efficiency, the increased capacity will help lower its carbon footprint by avoiding more than 1,300 tons of carbon emissions, equivalent to planting 4,133 trees, and saving 480,000 liters of diesel on a monthly basis. This will significantly contribute to protecting the emirate's environment and cutting harmful emissions.



OME / LIVE

350kwph solar power added to Abu Dhabi's Al Dhafra recycling facility

To raise the efficiency of the power plant, Tadweer installed 1,656 solar cells at an area covering 11,000 square meters, with a capacity to produce a total 600 kilowatts, equivalent to generating 878,000 kilowatts energy from diesel, saving an annual diesel consumption of up to 480,000 liters. This will help prevent an average of 1,300 tons of carbon emission per year.

As part of its continued efforts to promote sustainable energy at its various facilities, Tadweer has adopted a strategy to increase the use of clean energy sources at its current and future projects, and has outlined ambitious plans to achieve its sustainable objectives.

Khaleej Times Business Energy - On September 7,2020. Tadweer opens phase two of solar power plant at Al Dhafra C&D waste recycling facility.





Recognitions and Awards













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Recognitions and Awards













Examples of Live Projects 2022

Project Name	Project Location	Scope of Work
1. P-091 - FIBREX_North Yas Development Yas Living (NOYA 1)	Yas Island	Supply of RCA Ex-plant
2. Hpes-Carleigh School-Koora Sport Center /HPES Al maryah island project	Al Maryah Island	Supply of RCA Ex-plant
3. Riyad City South Ph.1 -N2- J-262	Riyad City	Supply of RCA Ex-plant
4. Jubail island & Abu Dhabi projects	Jubail Island	Supply of RCA Ex-plant
5. Improvement Of E11/E12 Intersection Between Al Falah And Al Falah And Al Reef - Section 1 (PA129).	AL Reef	Supply of RCA Ex-plant
6. Construction of roads and infrastructure works at MBZ city	MBZ City	Supply of RCA Ex-plant
7. Walk Ways & Cycle Track in the Al Dhafra Region Cities (P33)	Ruwais+D10:D11-Ghayathi	Supply of RCA Ex-plant
8. Mid field terminal -AUH	Auh-Airport	Supply of RCA Ex-plant
9. Riyad city north ph-7A / Infras.works at kizad area A ph.1-d	Riyad City	Supply of RCA Ex-plant
10. Various projects in Abu Dhabi	Abu Dhabi	Supply of RCA Ex-plant
11. TG2066 - Baniyas North Infrastructure, Streetscape and Vill	Baniyas	Supply of RCA Ex-plant
12. Riyadh City South Phase 2, Neighborhood 4 – Infra	Riyad City	Supply of RCA Ex-plant

Type of Material

Aggregate
Subbase/Base
Course (37.5-0 mm)
(Dry Mix)

	Project Name	Project Location	Scope of Work
13.	1045 - Riyadh City North Phase 6 (6A & 6B) Infrastructure	Riyad City	Supply of RCA Ex-plant
14.	Etihad Rail Network project Stage 2 Package (2c)/Riyadh City South Phase 3 Project	Riyad City	Supply of RCA Ex-plant
15.	Riyadh City North - Phase 7B	Riyad City	Supply of RCA Ex-plant
16.	Riyadh City South - Phase 4 (Nurol)	Riyad City	Supply of RCA Ex-plant
17.	Riyad City South-Ph.01-N3 -NBHH Project /Riyadh City North - Phase 7B/	Riyad City	Supply of RCA Ex-plant
18.	Early Works & Site Preparation for Borouge 4 Project	Ruwais	Supply of RCA Ex-plant
19.	Qasr Al Sarab Desert Resort Road	Liwa	Supply of RCA Ex-plant
20.	Brouge project ruwais	Ruwais	Supply of RCA Ex-plant
21.	Infrastructure works at MBZ city /Riyad City South phase -4 nurol- N-10 project.	Riyad City	Supply of RCA Ex-plant
22.	Various projects in Abu Dhabi	Abu Dhabi	Supply of RCA Ex-plant
23.	Various projects in Abu Dhabi	Abu Dhabi	Supply of RCA Ex-plant
24.	Various projects in Abu Dhabi	Abu Dhabi	Supply of RCA Ex-plant

Type of Material

Recycled crushed
Aggregate
Subbase/Base
Course (37.5-0 mm)
(Dry Mix)







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