



RTS

RELIABLE - TRANSPARENT - SUPPORT

RATHNA TECHNO SOLUTIONS

Who We Are

RATHNA TECHNO SOLUTIONS

We deliver engineering-driven execution with a zero-rework installation philosophy. Our commitment to high-quality Design, fabrication and erection ensures every project meets the highest standards of safety, precision, and durability.

Design and Detailed Engineering

Early brainstorming to final manufacturing blueprints

Fabrication & Erection

Zero rework through precise planning

Quality-First Culture

Durable welds, lasting results

Multi-Skilled Manpower

Faster progress with versatile teams

Safety-Integrated Planning

LTI-free execution record



Design and Detailed Engineering

Our engineering Team is expertise in design services from Process to Mechanical, Piping and Structural design which will lead to detailing to the core which will deliver piping isometrics, structural drawings, and Mechanical fabrication drawings of various static Equipments including Heat Exchanger, Pressure vessel, Column and Storage tanks .

Engineering Services Offered

- Thermal Design
- Mechanical Design
- Mechanical & Structural Datasheets
- Tender Proposals
- 3D & 2D Modelling & General Assembly Drawings
- Fabrication Drawings
- Tube Bundle and Tube Layout Drawings
- P&ID, Isometric, and Piping Routing Drawings
- Pipe Support and Foundation Drawings
- Development Drawings & As-Built Drawings
- FEA (Finite Element) Analysis
- Staad Pro Structural Analysis
- Pipe Stress Analysis
- CFD Analysis
- Structural Engineering Calculations

SOFTWARE WE EXPERTISE

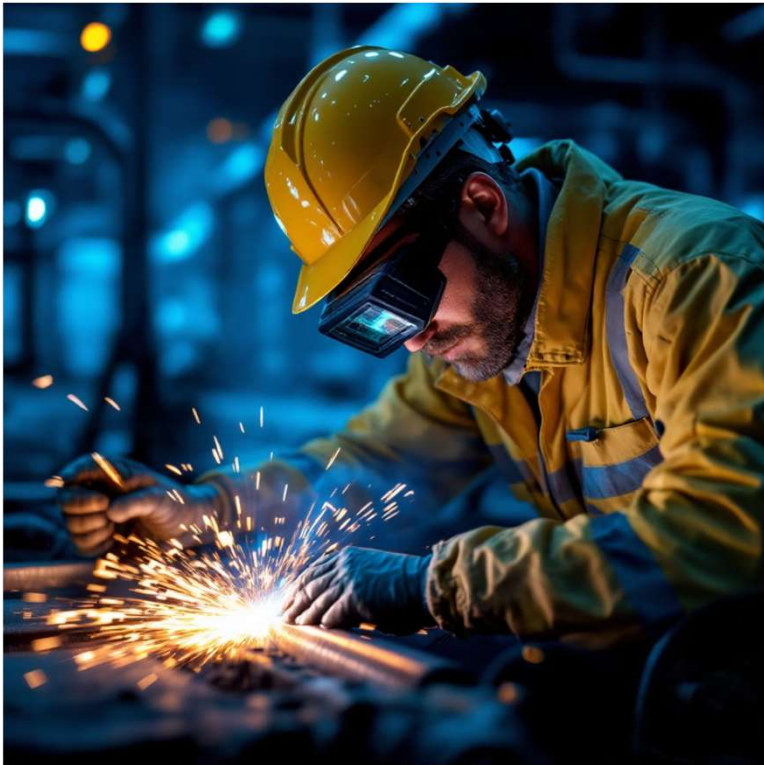




Mechanical Fabrication & Erection Excellence

Your Zero-Risk Execution Partner for Process Plant's Equipment, Columns, Towers, Tanks, Piping Piping Systems, and Utilities Infrastructure.

Zero-Rework Execution Model



1

Pre-Fabrication Verification

Thorough validation of materials, dimensions, and specifications before any cutting or welding begins.

2

Fit-Up Approvals

Mandatory inspection and approval of component alignment before welding to ensure perfect joint geometry.

3

Joint-by-Joint QA/QC

Comprehensive inspection at every stage, from fit-up through final weld completion and testing.



Safety & Compliance Framework

Dedicated Safety Officers

Three full-time safety professionals conduct continuous site monitoring, risk assessments, and safety audits to maintain the highest safety standards.

Permit to Work & High-Risk Activity Control

Rigorous PTW system for all hazardous operations including hot work, confined space entry, and working at heights.

100% PPE Compliance

Mandatory personal protective equipment for all personnel with regular inspections and replacement programs.

Zero Lost Time Injury Record

Proven track record of incident-free execution through comprehensive safety culture and proactive hazard management.

Project Experience & Expertise

Industry Sectors

- Chemical Processing Plant
- Edible Oil Refineries
- Petroleum Refining Facilities
- Pulp & Paper Manufacturing

Project Scope Capabilities

- Tank Farm Construction & Piping
- Utility Systems & Infrastructure
- Process Plant Installation
- Multi-Discipline Coordination

Our experienced teams have successfully delivered complex mechanical fabrication and erection projects across diverse industrial sectors, demonstrating versatility and technical excellence in every engagement.





Schedule Discipline Framework

Micro Planning

Detailed daily and weekly schedules broken down by activity, resource, and milestone to ensure precise execution tracking.

Interface Control

Coordinated sequencing between civil, mechanical, and electrical disciplines to eliminate delays and optimize workflow.

S-Curve Monitoring

Real-time progress dashboards comparing planned versus actual performance with early warning systems for deviations.

Engineering Integration

Seamless coordination with design teams for fast closure of pending items and rapid resolution of field changes.



Complete Project Lifecycle Execution

1

Pre-Execution / Initial Stage

Kick-off & mobilization, engineering documentation review, and comprehensive material management setup.

2

Fabrication Stage

Shop preparation, precision cutting, edge preparation, fit-up assembly, welding, PWHT, and dimensional verification with spool identification.

3

Erection Stage

Site preparation & survey, equipment installation, pipe erection, structural assembly, and comprehensive system testing (hydrotest/pneumatic).

4

Pre-Commissioning & Handover

System re-instatement, mechanical completion with punch list closure, and final documentation package delivery.

Ready to Execute with Full Ownership WE RTS Engineered Solutions

We deliver safe, fast, and quality-driven execution with complete project ownership from kick-off to final handover.

Our zero-rework philosophy, multi-skilled workforce, and engineering-led approach ensure your project is completed on time, within budget, and to the highest standards of safety and quality.

Your trusted partner for mechanical fabrication and erection excellence



Proven Safety Record
Zero LTI execution history



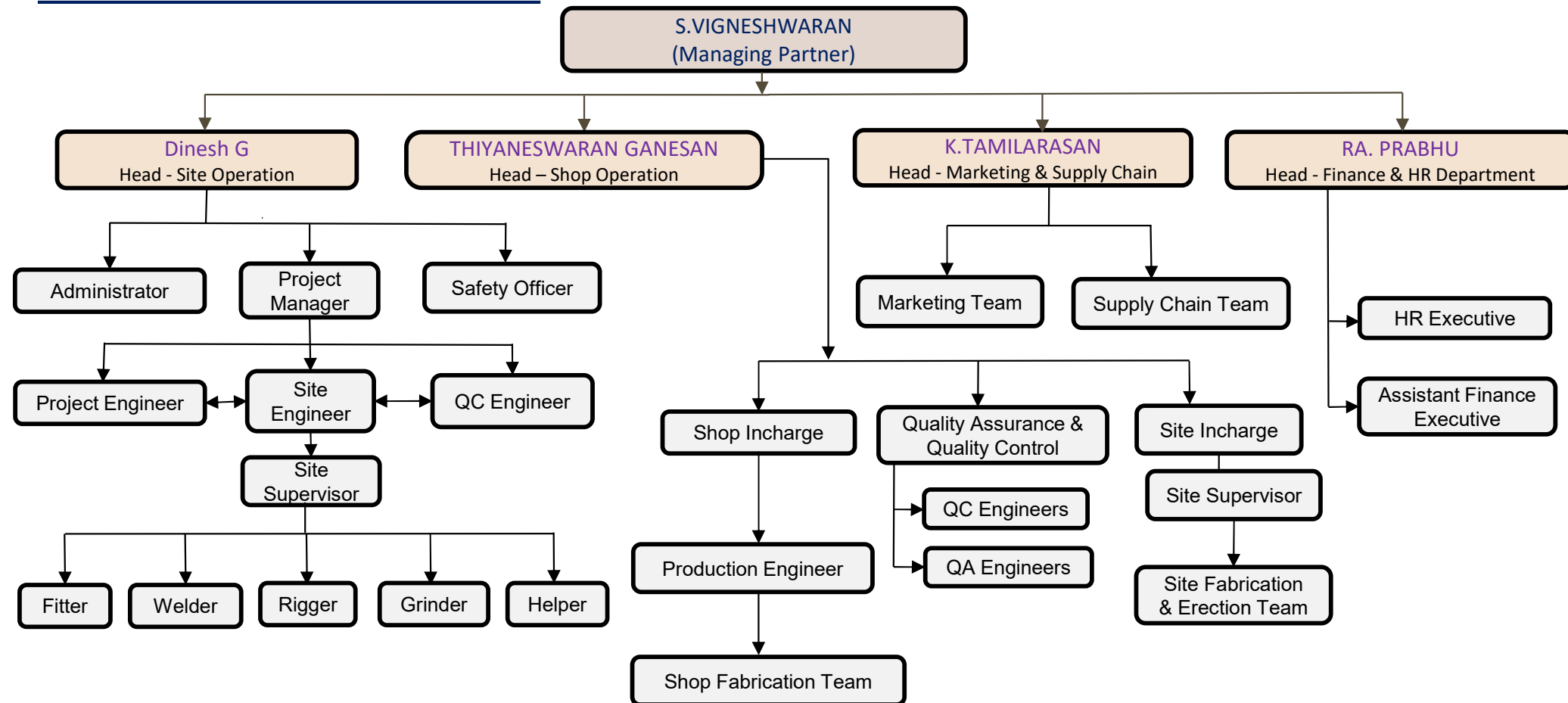
Schedule Certainty
Micro-planned delivery timelines

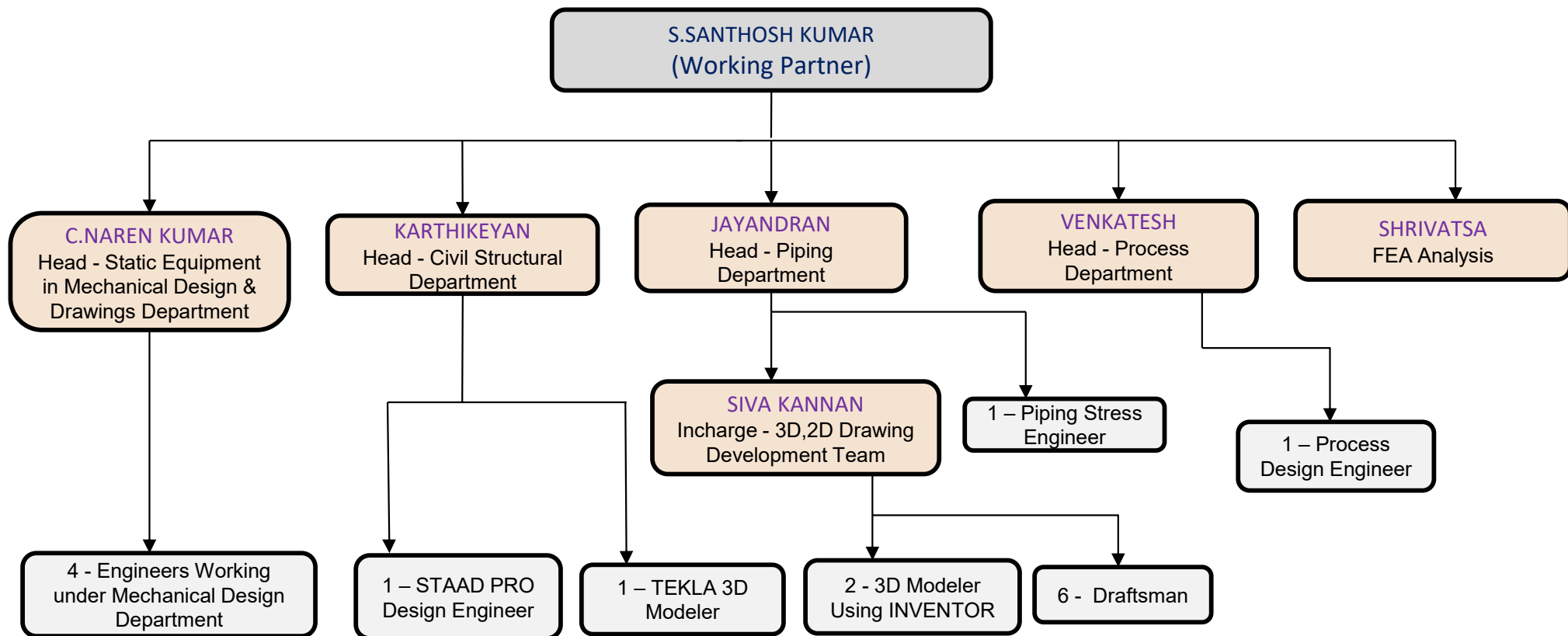


Quality Assurance
100% Customer Satisfaction



ORGANIZATION CHART





Mr. S. Vigneshwaran Managing Partner

Executive leader with 16+ years of extensive diverse industry experience in successfully leading Business Strategy, Supply Chain Optimization, Strategic Sourcing, Manufacturing Operations & Commissioning, Organization Effectiveness, Technical Leadership & People Management and Financial Acumen.

He is a passionate about exploring new opportunities and challenges, focusing on safety, quality, on time delivery, people development, environmental sustainability, and delivering business value to customers and partners.

He owned his Bachelor of Technology in Chemical Engineering from Anna University. Also, I hold credited certifications in Supply Chain Management.

Mr. S. Santhosh Kumar Working Partner

An experienced engineering professional with over 15+ years of expertise in the design and development of static equipment, including BEU, BEM, BKT-type heat exchangers, U-stamp heat exchangers, and the mechanical design of stripper columns, pressure vessels, process columns, and solvent De asphalt plants. He has a strong background in thermal and mechanical design and has made significant contributions to several major projects across reputed organizations, including:

- Precision Equipment's – Design Engineer (Thermal & Mechanical).
- Dow Chemical International Pvt. Ltd. – Principal Engineer.
- Fluor Daniel India Pvt. Ltd. – Associate Design Engineer.
- IIL Saipem India Projects Ltd. – Principal Engineer (Static Equipment)

Dinesh G Head - Site Operation

An experienced project and process engineering professional with over 16+ years of expertise in the water / pulp & paper industry, specializing in capital project execution, process optimization, equipment upgrades, and end-to-end commissioning. He has a strong background in technical evaluation, vendor management, engineering review, and coordination of large-scale industrial projects across leading organizations, such as:

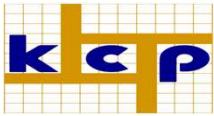
- Andhra Paper Limited – Deputy Manager (Technology Manager, Capital Projects)
- PAPCEL Pulp & Paper Technology Deputy Manager – Technical Sales
- Servall Engineering Works, – Senior Application Engineer.
- Titanium Tantalum Products Ltd. – Erection & Commissioning Engineer.

Mr. Thiyaneswaran Head-Shop Operation

A highly experienced professional with 25+ years in manufacturing and fabrication of static equipment, including heat exchangers, process columns, pressure vessels, piping systems, and structural assemblies. He brings strong expertise in QA/QC, welding processes, material control, and end-to-end fabrication workflows. With deep shop-floor insights and a rigorous focus on quality, safety, and compliance, he ensures the operational excellence that Rathna Techno Solutions is recognized for.

- Strong static equipment specialist
- Expert in welding processes
- Proven QA/QC leadership
- Deep material selection knowledge
- End-to-end fabrication oversight
- Strong shop-floor execution skills
- Ensures safety and compliance
- Delivers consistent manufacturing excellence

Key Customers

				 SANTHOSHIMATHA EDIBLE OIL REFINERIES PVT LTD		
		 Engineers, Fabricators, Consultants & Contractors				
						
						
		 - SINCE 1988 -				

Key Activities in Site Fabrication:

- **Erection of Equipment:** Tanks, Vessels, Heat Exchangers, and Structural Steel assemblies.
- **Piping Fabrication & Installation:** Fit-up, Welding & Routing of Process Piping, Utility Lines, & Fire Hydrant Systems.
- **Structural Steel Works:** Erection of Pipe Racks, Platforms, Support Systems, etc.
- **On-Site Modifications:** Adjustments to ensure compatibility with actual site conditions.
- **Testing & Commissioning Support:** Pressure Testing, Flushing, and Support during Mechanical Completion.

Site Fabrication and Erection

Site Fabrication refers to the on-site construction, assembly, and installation of fabricated components at the project location. It's essential when components are too large for transportation, or when in-situ assembly is required due to design or process constraints.

Why Rathna Techno Solutions?

- **End-to-End Capability:** From design to production to erection, all under one roof.
- **Code Compliance:** Adherence to ASME, TEMA, API 650, API 620, EN 13445, IS 800, PD 5500, AD 2000, GEP standards.
- **Skilled Team:** Qualified engineers, draftsmen, welders, fabricators, and site supervisors.
- **Project Versatility:** Proven experience across greenfield and brownfield projects.
- **Client-Centric Approach:** Customization, transparency, and strong after-sales support.

CLIENT APPRECIATION LETTER



Dear Rathna Techno Solutions,

We at AWL Agri Business, formerly Adani Wilmar Limited, wanted to express our sincere and profound appreciation for your continuous and outstanding service. We are grateful for your robust and top-notch Design & Engineering, Strategic Sourcing and Fabrication, which has been impeccably assisting us in providing unrivaled services.

Your team's flexibility and the ability to instantly cater to our demanding needs highlight not only your professionalism but also your customer-centric approach. Your enthusiasm and dedication toward service excellence have elevated our partnership to extraordinary heights.

We echo our commitment to you as a valued supplier and are keen on reinforcing this partnership in the coming years. Through our continued collaboration, we're confident that we will continue to create shared success and growth. As our business grows, we hope to take you along with us on this rewarding journey.

Your dedication to meeting deadlines and maintaining high standards has not gone unnoticed. We value the strong partnership we have built and look forward to continued collaboration. Please accept our gratitude for your outstanding efforts.

Thank you for being a valued partner. We look forward to many more years of successful collaboration.

Although, we appreciate your sincerity, commitment and witness to your team has made efforts in order to complete the tube replacement of the Calendria-1, 2 & 3 (Quantity – 3 Nos) in MEE Area (ZLD Calandrias) on time.

Project Details: Titanium Tube Replacement for Calendria-1-2-3

Equipment: Shell & Tube Heat Exchanger

Material: SB 338 Gr.2 Tubes and SB 265 Gr.2

Activity: Complete titanium tube bundle removal and replacing the old tubes with new tubes and performed Tube to Tubesheet Welding, NDE & Hydro Test at site.



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AWL Agri Business Ltd.
Formerly known as Adani Wilmar Ltd.
Survey No 202 & 317
Village Pampadurai (Eduvur)
District Sri Potti Srinivasulu Nellore
Andhra Pradesh, India
CIN: L11146GJ1909PLC035320

Tel: +91 79 2445 5650
Fax: +91 79 2445 5651
info@awl.in
www.awl.in

Registered Office: Pampadurai House, Nr. Nellore Airport, Nellore District, 524002 795005, Nellore, India

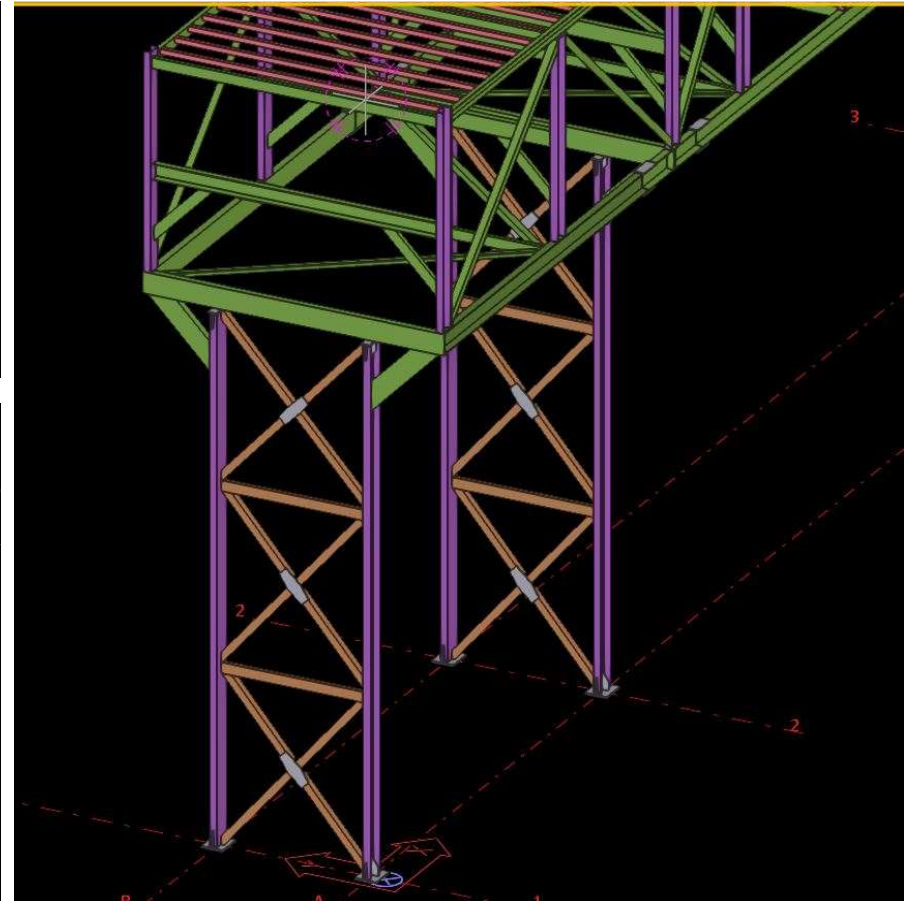
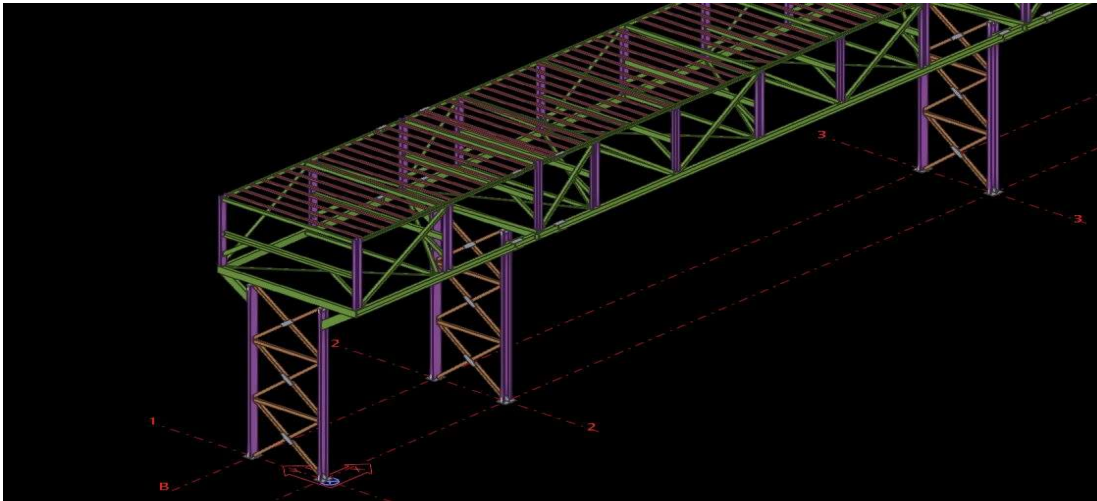
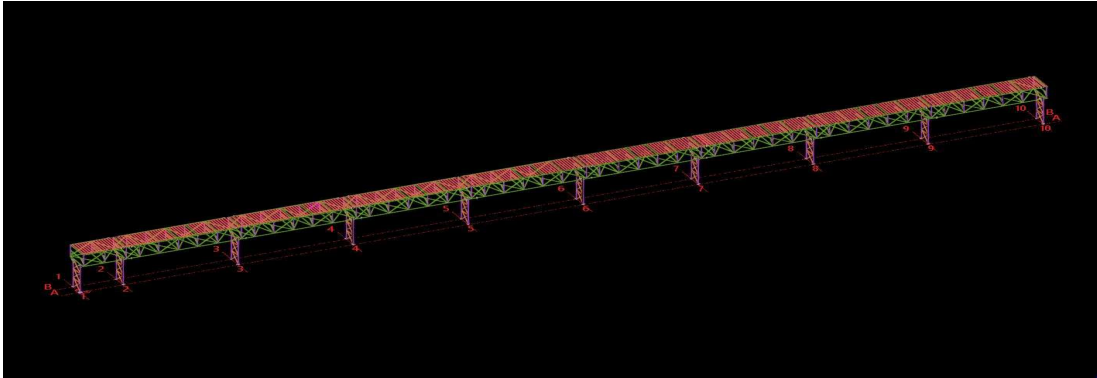
For a healthy growing nation

Design, Fabrication & Erection of Pipe Rack – Cargill India Pvt. Ltd.

-  **Engineering & Design**
-  **Detailed Documentation**
-  **Quality Fabrication**
-  **Logistics & Handling**
-  **Site Erection**
-  **Pipe Support Installation**
-  **Safety & Compliance**
-  **Coordination & Execution**
-  **Final Handover**



Design, Fabrication & Erection of Pipe Rack – Cargill India Pvt. Ltd.



Fabrication & Painting of RO Plant Structure - Cargil india Pvt. Ltd.



Fabrication & Erection of 10 Tanks - Santhoshimatha



Tank Size : Dia 8 Meter x 16 Meter Height



Oreo Tanks Erection - Cargil india Pvt. Ltd.



Tank Size : Dia 18 Meter x 31.5 Meter Height



Tank Size : Dia 18 Meter x 31.5 Meter Height



Tank Size : Dia 18 Meter x 31.5 Meter Height



AWL OLEO CHEMICAL 5-C-1 REACTOR COLUMN UNLOADING AND STATIC EQUIPMENT ERECTION



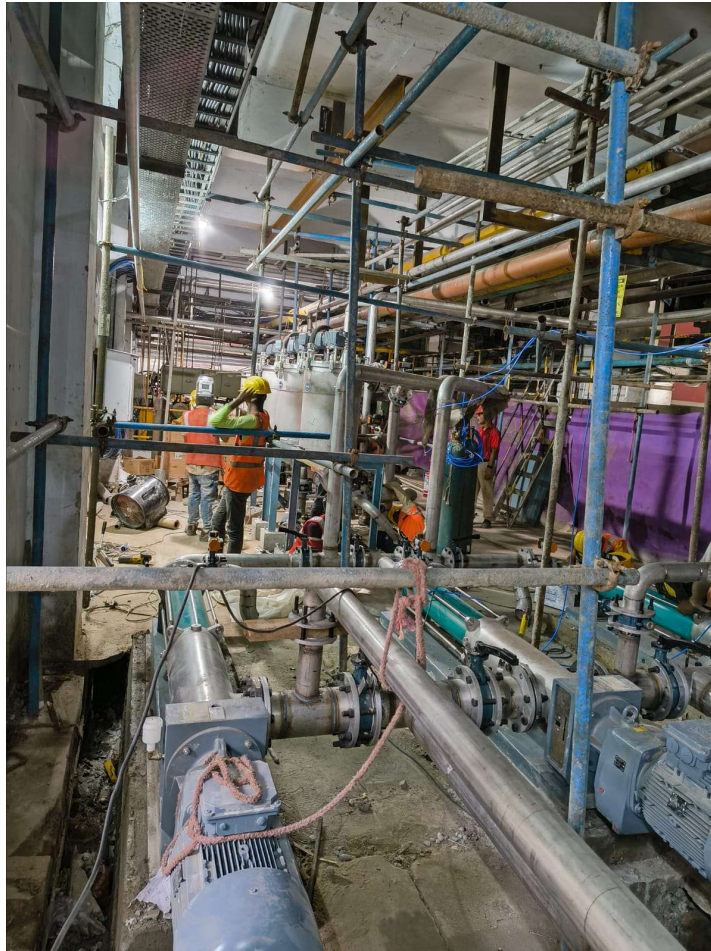
AWL OLEO CHEMICAL 1-C-1 SPLITTER COLUMN UNLOADING AND STATIC EQUIPMENT ERECTION



STARCH PREPARATION PLANT Project –18 TPD



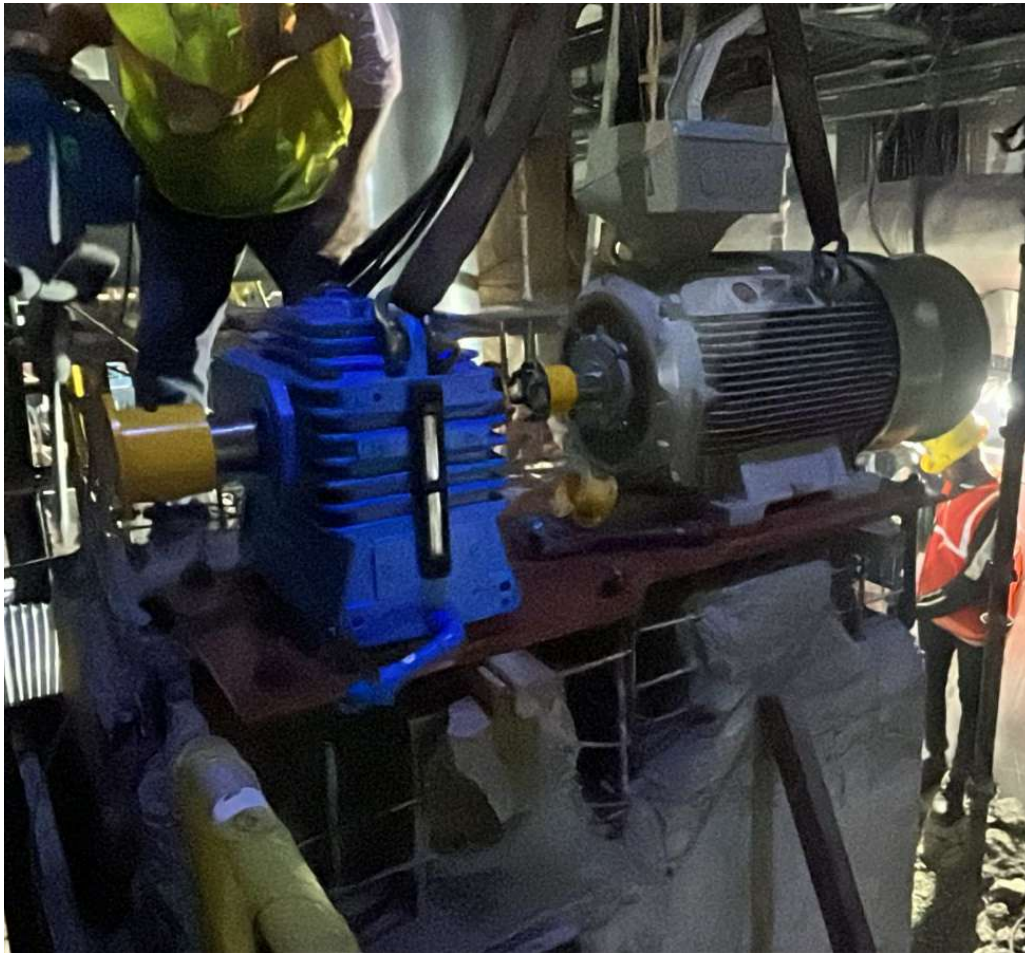
STARCH PREPARATION PLANT Project



STARCH PREPARATION PLANT Project



MACHINE DRIVE INSTALLATION



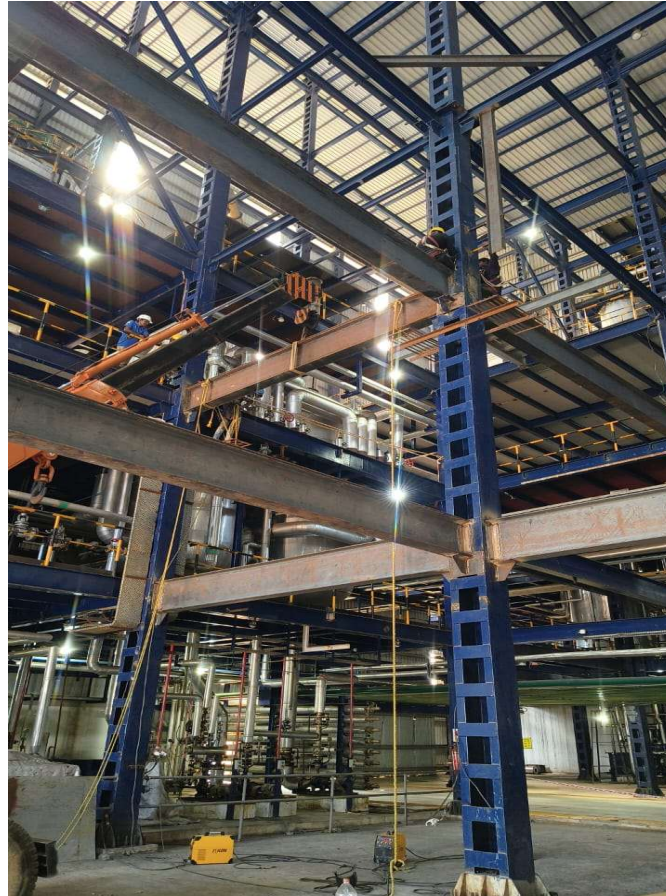
INSTALLATION OF PUMPS & EQUIPMENTS and & PIPING FABRICATION



Calendria Titanium Tube Replacement – Adani Wilmar India Pvt. Ltd.



Structural Support Fabrication for Fractionation – Gokul Agro Resources Ltd.



Cross Country Pipe line Wrapping, Fabrication And Erection – Gokul Agro Resources Ltd.



MANPOWER

- 1 **Fitters**
- 2 **Welders**
- 3 **Grinders**
- 4 **Riggers**
- 5 **Gas Cutter**
- 6 **Helpers**
- 7 **Supervisors & Safety Officers**

PPE CONTROLS



MSME CETRIFICATE

 भारत सरकार Government of India सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Ministry of Micro, Small and Medium Enterprises	 सूक्ष्म, लघु एवं मध्यम उद्यम MICRO, SMALL & MEDIUM ENTERPRISES
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UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER

UDYAM-TN-27-0052617

NAME OF ENTERPRISE

M/S RATHNA TECHNO SOLUTIONS

TYPE OF ENTERPRISE *

S.No.	Classification Year	Enterprise Type	Classification Date
1	2023-24	Micro	09/05/2023
2	2022-23	Micro	28/03/2023

MAJOR ACTIVITY

TRADING

[For availing benefits of Priority Sector Lending(PSL) ONLY]

SOCIAL CATEGORY OF ENTREPRENEUR

OBC

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	M/S RATHNA TECHNO SOLUTIONS

OFFICIAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	First Floor, B/69	Name of Premises/ Building	Ramlinga Nagar
Village/Town	Woraiyur	Block	Woraiyur
Road/Street/Lane	1st Main Road	City	TIRUCHI
State	TAMIL NADU	District	TIRUCHIRAPPALLI, Pin 620003
Mobile	8754500776	Email:	sskpetro@gmail.com

ISO CETRIFICATE

	
Certificate of Registration	
RATHNA TECHNO SOLUTIONS	
REGISTERED OFFICE:- FIRST FLOOR, B/69, RAMLINGA NAGAR, WORAIYUR, 1ST MAIN ROAD, TIRUCHIRAPPALLI-620003, TAMIL NADU, INDIA BRANCH OFFICE:- PLOT NO. 57, 3RD STREET, EXOTICA LAYOUT, IRULAPALAYAM ROAD, KUTHAMBAKKAM VILLAGE, POONAMALLE TALUK, CHENNAI-600124, INDIA	
has been assessed and Certified by Otabu Certification Pvt. Ltd. as meeting the requirements of:	
ISO 9001:2015	
Quality Management System	
For the following scope of activities:	
1) DESIGN AND DETAILS ENGINEERING SERVICES OF HEAT EXCHANGERS, PRESSURE VESSELS, COLUMNS, STORAGE TANKS AND REACTORS. 2) SOURCING AND SUPPLY OF FERROUS/ NON FERROUS SHEETS, PLATES, PIPES, TUBES, FITTINGS, FLANGES, BARS, GASKETS, FASTENERS, VALVES, STRUCTURAL STEELS, AND BOUGHT OUT COMPONENTS.	
Issue No : 01 Date of Certification: 27 July 2023 1st Surveillance Due: 26 July 2024	Revision No () : NA 2nd Surveillance Due: 26 July 2025 Certificate Expiry: 26 July 2026 (subject to the company maintaining its system to the required standard)
Certificate No:- 0727Q194323 To Verify this Certificate please visit at www.otabucert.com	
 MEMBER OF MULTILATERAL RECOGNITION AGREEMENTS	 115002A
 CERTIFICATION PRIVATE LIMITED	 Dr. Anita Gupta (Managing Director)
*Validity of the certificate is subject to successful completion of surveillance audit on or before due date (in case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawn). This Certificate of Registration remains the Property of Otabu Certification Pvt. Ltd. and shall be returned immediately upon request. Otabu Certification Pvt. Ltd., PZ-9 (Ground Floor), Prem Nagar, Uttam Nagar, New Delhi-110059 (India) Email:- info@otabucert.com website:- www.otabucert.com	

GST CETRIFICATE

(Amended)



Government of India

Form GST REG-06

[See Rule 10(1)]

Registration Certificate

Registration Number : 33ABGFR2310H1ZN

1. Legal Name	RATHNA TECHNO SOLUTIONS			
2. Trade Name, if any	RATHNA TECHNO SOLUTIONS			
3. Additional trade names, if any				
4. Constitution of Business	Partnership			
5. Address of Principal Place of Business	Floor No.: First Floor Building No./Flat No.: B/69 Road/Street: Ramlinga Nagar 1st Main Road Locality/Sub Locality: Woraiyur City/Town/Village: Tiruchirappalli District: Tiruchirappalli State: Tamil Nadu PIN Code: 620003			
6. Date of Liability				
7. Date of Validity	From	17/01/2023	To	Not Applicable
8. Type of Registration	Regular			
9. Particulars of Approving	Centre Goods and Services Tax Act, 2017			
Signature				
Signature Not Verified Digitally signed by S GOODS AND SERVICES TAX NETWORK TS Date: 2024.09.25 17:30:23 IST				
Name	ANIL KUMAR PANDEY			
Designation	Superintendent			
Jurisdictional Office	CITY - 3 RANGE			
Date of issue of Certificate	25/09/2024			

Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State.

This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 25/09/2024 by the jurisdictional authority.

WELDER QUALIFICATION CETRIFICATES

 WELDER PERFORMANCE QUALIFICATION (WPQ) ASME BOILER AND PRESSURE VESSEL CODE-SEC IX 2017		Page 1 of 1
TEST DESCRIPTION		
WPQ No : SEC - WPQ - 001		
Test Date: 20.FEB.2024		
Company Name : RATHNA TECHNO SOLUTIONS		
Welder's Name	Mr. MANKESHWAR KUMAR MAHTO	☒ Test Coupon
Welder Identification No :	STR - 265	☐ Production Weld
Identification of WPS followed	SE - WPS - P1 - 001	Size 2" NB
Specification of Basemetal	SA 106 Gr. B to SA 106 GR B	Thickness 6.0 mm
Testing Conditions and Qualification Limits		
Welding Variables (QW - 350)	Actual Values	Range Qualified
Welding Process(es)	GTAW	GTAW
Type (ie manual, semi-automatic) Used	MANUAL	MANUAL
Backing (metal, weld metal, double welded, etc)	WITH OUT	WITH Or WITHOUT
Plate ☒ Pipe (enter diameter if pipe or tube)	PIPE 2" NB	1" & ABOVE
Base Metal P- or S- Number to P- or S- Number	P1 TO P1	P1 TO P1
Filler Metal or Electrode Spec. (SFA) (info only)	5.18	5.18
Filler Metal or Electrode Class (info only)	ER 70S 2	ER 70S 2
Filler Metal F-Number(s)	6	6
Consumable Insert (GTAW or PAW)	Argon 99.997%	Argon 99.997%
Filler Type(solid/metal or flux cored/powder)(GTAW & PAW)	Solid	Solid
Deposit Thickness for each process	6.0mm	12.0mm
Position Qualified (2G, 6G, 3F, etc)	6G	All position
Vertical Progression (uphill or downhill)	uphill	uphill
Type of fuel gas (OFW)	NA	NA
Inert Gas Backing (GTAW, PAW, GMAW)	NA	NA
Transfer Mode (spray/globular or pulse to short circuit)	NA	NA
GTAW current type and polarity (AC, DCEP, DCEN)	DC EN	DC EN
Results		
Type	Report No	Date
Bend Test (180/4T)	2518	23.Mar.2024
No Openings or Discontinuities observed		
Tensile Test	NA	NA
Hardness Test	NA	NA
Weld Metal Chemical Analysis	NA	NA
Alternative radiographic examination results		
Report No & Date:		
Fillet Weld fracture test (QW-180)	N/A	Length and percent of defects N/A
Macro examination (QW-184)	N/A	Fillet Size (in.) N/A Concavity/convexity (in.) N/A
Other Tests	NA	
Films or specimens evaluated by	M/s Ulogam Analytical	Company RATHNA TECHNO SOLUTIONS
Mechanical tests conducted by	Lab	Laboratory Test No. 2518
Welding supervised by	Mr.Thiyaneswaran Ganesan - Rathna Techno Solutions	
We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME BOILER AND PRESSURE VESSEL CODE.		
Prepared by		Reviewed / Approved by
Name	S. Vigneshwaran	Thiyaneswaran Ganesan
Date	23-03-2024	23-03-2024
Signature		

 WELDER PERFORMANCE QUALIFICATION (WPQ) ASME BOILER AND PRESSURE VESSEL CODE-SEC IX 2017		Page 1 of 1
TEST DESCRIPTION		
WPQ No : SEC - WPQ - 002		
Test Date: 20.FEB.2024		
Company Name : RATHNA TECHNO SOLUTIONS		
Welder's Name	Mr. SUNIL KUMAR	☒ Test Coupon
Welder Identification No :	STR -96	☐ Production Weld
Identification of WPS followed	SE - WPS - P1 - 001	Size 2" NB
Specification of Basemetal	SA 106 Gr. B to SA 106 GR B	Thickness 6.0 mm
Testing Conditions and Qualification Limits		
Welding Variables (QW - 350)	Actual Values	Range Qualified
Welding Process(es)	GTAW	GTAW
Type (ie manual, semi-automatic) Used	MANUAL	MANUAL
Backing (metal, weld metal, double welded, etc)	WITH OUT	WITH Or WITHOUT
Plate ☒ Pipe (enter diameter if pipe or tube)	PIPE 2" NB	1" & ABOVE
Base Metal P- or S- Number to P- or S- Number	P1 TO P1	P1 TO P1
Filler Metal or Electrode Spec. (SFA) (info only)	5.18	5.18
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Vertical Progression (uphill or downhill)	uphill	uphill
Type of fuel gas (OFW)	NA	NA
Inert Gas Backing (GTAW, PAW, GMAW)	NA	NA
Transfer Mode (spray/globular or pulse to short circuit)	NA	NA
GTAW current type and polarity (AC, DCEP, DCEN)	DC EN	DC EN
Results		
Type	Report No	Date
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Report No & Date:		
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Macro examination (QW-184)	N/A	Fillet Size (in.) N/A Concavity/convexity (in.) N/A
Other Tests	NA	
Films or specimens evaluated by	M/s Ulogam Analytical	Company RATHNA TECHNO SOLUTIONS
Mechanical tests conducted by	Lab	Laboratory Test No. 2524
Welding supervised by	Mr.Thiyaneswaran Ganesan - Rathna Techno Solutions	
We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME BOILER AND PRESSURE VESSEL CODE.		
Prepared by		Reviewed / Approved by
Name	S. Vigneshwaran	Thiyaneswaran Ganesan
Date	23-03-2024	23-03-2024
Signature		

CONTACT DETAILS

Registered Office :

Rathna Techno Solutions
1st Floor, No.B/69, Ramalinga Nagar, 1st
Main Road, Woraiyur, Trichy,
Tamilnadu, India,
Pin - 620003.

Branch Office :

Rathna Techno Solutions
No.57, Exotica Layout, 3rd Street,
Irulapalayam Road, Kuthambakkam,
Chennai, Tamilnadu, India,
Pin – 600124.

Email : info@rathnatech.com | sales@rathnatech.com

Website : www.rathnatech.com

GST : 33ABGFR2310H1ZN

PAN No : ABGFR2310H

Thank You...

Be a part of RTS and let RTS be a part of You!