



COMPANY PROFILE

INSTALLATION AND TESTING

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Letter of introduction...

Dear Valued **Clients** and **Partners**,

ARV TRADING AND SERVICES COMPANY LIMITED would like to extend our respectful greetings, best wishes for your health, and sincere appreciation for your interest, trust, and continued support throughout the years.

Throughout our development journey, **ARV** has remained committed to building a business founded on credibility, quality, and responsibility. We believe that sustainable value is shaped not only by execution capability, but also through dedication in every commitment, transparency in every collaboration, and long-term partnership with our customers and partners.

For **ARV**, every opportunity for collaboration is not merely a task to be completed, it is a journey of building trust together, delivering effectiveness, and creating meaningful value. That is why we continuously work to enhance our capabilities, standardize our processes, improve service quality, and maintain professionalism in all our activities. This is also how **ARV** affirms its position – through persistence, meticulousness, and a consistent commitment at every stage of its development.

We believe that with understanding, responsibility, and a constant determination to improve, **ARV** will continue to stand alongside you in creating sustainable value for both today and the future.

Yours sincerely,

Chairman of the Members' Council
NGUYEN QUOC VUONG





OVERVIEW

Founded in 2023, **ARV** is proud to be part of **ARREA SERVICES PTE. LTD.** - a Singapore-headquartered group with over 20 years of experience in supplying materials and equipment for medium- and high-voltage power transmission systems.

Built on a strong foundation of technical expertise, standardized management systems, and international partner network, **ARV** is committed to delivering highly practical solutions suited to Vietnam's real operating conditions, while ensuring transparency in product origin and quality.

ARV specializes in supplying high-quality materials and equipment, as well as providing installation and testing services for works such as underground cable systems and high-voltage AIS/GIS substations.

We focus on standardizing processes in line with technical requirements, maintaining strict quality control, and complying rigorously with safety regulations to ensure stable, reliable, and efficient system operation.

Leveraging ARREA's extensive expertise and a professionally trained engineering team, **ARV** is committed to delivering optimal solutions in terms of technical performance, schedule, and cost efficiency. We support our customers at every stage, from equipment selection and consultation to installation, acceptance, and post-handover services. **ARV** is dedicated to building long-term partnerships and contributing to the sustainable development of Vietnam's power industry.





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Committed to innovation in both technology and processes, we strive to create exceptional value for our customers, partners, and the community.

VISION



To become one of Vietnam's leading companies in the installation and testing of underground cable systems and high-voltage equipment for offshore substations.

MISSION



To meet customer needs with high-quality products and professional services at competitive prices.

CORE VALUES



Respect: Upholding commitments, transparency, and professional ethics.

Quality: The guiding principle behind all ARV activities.

Professionalism: Well-structured processes, uncompromising safety, and on-time delivery.

Why choose ARV?

Minimizing risks throughout contract execution

We proactively identify, assess, and control potential risks during the contract execution process, from planning to final acceptance and handover, ensuring that all commitments are fulfilled on schedule, within budget, and in full compliance with technical requirements.

Ensuring products and services meet customer needs

All products and services are subject to strict quality control in accordance with both local and international technical standards. We continuously improve to ensure that every solution we deliver is best suited to each customer's practical needs and expectations.

Ensuring safe operation throughout the project lifecycle

We support our customers not only during installation, but throughout the entire operational lifecycle of the project. Our technical support system is systematically implemented to ensure that all products and services perform reliably, safely, and efficiently.

Providing timely solutions in emergency situations

With an experienced team and a professional response process, we are ready to respond promptly to arising issues, ensuring that quality and safety remain the top priorities at every stage of the project.





Our team

At ARV, people are the foundation and the core element behind every success. With professionalism, discipline, and a strong sense of responsibility, our team is committed to giving its best in every project to achieve optimal results for our customers.

In particular, our engineers and site workers are professionally trained, highly skilled, experienced, and hold relevant professional certifications.

This is the foundation that gives us the confidence to ensure reliability, accuracy, and safety in every scope of work we undertake.



OUR ENGINEERS & SITE WORKERS



Over 10 years of experience in the transformer industry

- Maintenance and repair of transformers
- Installation and testing of transformers



Over 20 years of experience in the high-voltage cable industry

- Cable pulling and laying, cable termination, and testing of MV/HV cable systems
- Installation and testing of equipment for high-voltage AIS/GIS substations



OUR CAPABILITIES

High-voltage underground cable installation and accessories

High-voltage underground cable pulling/laying

Propose cable pulling/laying methods tailored to site conditions and the cable cutting length requirements of each specific project. Directly organize and comprehensively supervise the cable pulling/laying process under different site conditions to ensure strict compliance with the manufacturer's requirements for bending radius and pulling tension.

Execution commitment

Specialized in the installation of high-voltage underground cable accessories, including cable terminations to equipment such as GIS and transformers, carried out by a team of experts certified through manufacturer training programs from world-leading suppliers.

Cable termination installation

Ensuring safe and stable cable system operation through a stringent control process that simultaneously meets the three key criteria of safety, quality, and schedule.





GIS installation

Specialized installation

Carry out the installation of high-voltage GIS bays with absolute precision, including equipment positioning, connection of gas compartments, and installation of the associated protection and control cabinet system.

Our technical team

Executed directly by our skilled engineers and technicians, who have extensive experience working with complex GIS systems from leading manufacturers, ensuring airtightness and high insulation performance for the system.

Environmental and technological control

Strictly comply with cleanliness and humidity requirements during compartment assembly, while using specialized equipment for vacuuming and SF₆ gas filling to the purity standards specified by the manufacturer.



Transformer transportation and installation

Transformer transportation

Plan and organize the transportation of transformers and accessories using specialized vehicles for oversized and heavy cargo.

Safely position the transformer and its accessories on the foundation

Accurately align the position in accordance with the project's technical design.



Transformer oil filtration

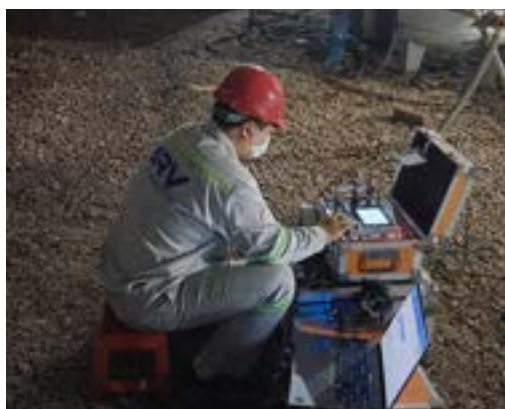
Perform transformer oil circulation, vacuum treatment, and oil filling using high-capacity oil filtration systems, ensuring that breakdown voltage, moisture content, dissolved gases, and other parameters fully meet the project's technical requirements.

Transformer accessory installation

Carry out the complete installation of transformer accessories, including radiators, conservator tank, high-voltage/low-voltage bushings, cooling system, measuring devices, and protection relays.



AC/PD testing for high-voltage underground cables



Proposed solution

Develop AC/PD testing procedures for cables in accordance with national and international testing standards, and in line with the specific requirements of each individual project.



Overall assessment

Conduct AC high-voltage testing together with partial discharge (PD) measurement to evaluate the reliability of the main insulation in the cable, as well as at cable joints and terminations.



Risk management

Apply advanced PD analysis technology to detect potential insulation defects early, prevent discharge failures, and support acceptance before energization.



AC/PD testing for GIS equipment at offshore substations

Specialized capabilities

Provide specialized testing solutions for GIS in Offshore Substation (OSS) projects, where particularly high technical standards are required due to harsh operating environments and limited equipment layout space.

Safe operation

Conducted rigorous pre-operation testing to identify installation errors, ensuring continuous and stable operation of the GIS system offshore.



LIST OF EQUIPMENT

Tools & equipment for HV/MV GIS installation



Vacuum cleaner



Torque wrench



SF₆ gas leak detector



SF₆ gas handling system



Vacuum pump



SF₆ gas analyzer



Air Quality Meter



Automatic Level



Chain Hoist

Tools & equipment for HV/MV cable termination



Sander



Heating Unit



Cable Lug Crimping Tool



**Semiconductive and Insulation
Stripping Tool**



Cable Stripping Knife



**Hydraulic
Crimping Tool**

Tools & equipment for HV/MV cable pulling & laying



Cable Drum Stand



Pulling machine



Pushing Machine

Tools & equipment for HV/MV transformer installation



**Oil filtration machine
6000 L/h**



**Oil filtration machine
6000 L/h**



**Oil filtration machine
4000 L/h**



**Oil storage tank
25,000 L**



**Vacuum machine
350 m³/h**



**Insulating oil breakdown
voltage tester**



FEATURED PROJECTS

HAI LONG 2 & 3 OSS PROJECT

Client: PTSC Mechanical And Construction Limited Company (PTSC M&C)

Execution time: 4 months

Number of cable terminations: Connex Size 6-S (48 sets), Connex Size 4 (246 sets)

Scope of work:

- Supply and installation of Pfisterer 220kV/66kV cable accessories for the OSS
- Testing of 220kV/66kV cables before, during, and after termination
- Installation of cable terminations and connecting them to GIS equipment and HV/MV Transformers

Status: Cable termination works were executed in parallel with the incomplete installation of equipment

Solution: Determined the required cable cutting length to allow cable termination works to be carried out before the equipment was fully installed, and protected the completed terminations with specialized protective covers

TPC OSS PROJECT

Client: Petrovietnam Marine Shipyard Joint Stock Company (PV Shipyard)

Execution time: 3 months

Scope of work:

- Pulling and laying of 161kV/66kV cables
- Testing of 161kV/66kV underground cables before, during, and after cable termination
- Installation of 161kV/66kV cable accessories and terminated cables to GIS and transformers
- AC & PD testing for the 161kV/66kV GIS
- AC & PD testing for the OSS 161kV/66kV cable system





110KV THANH CONG PHUONG LIET UNDERGROUND CABLE JOINT REPLACEMENT PROJECT

Client: An Phuc Hung Building Joint Stock Company

Execution time: 20 days

Location: 110kV Thanh Cong – Phuong Liet underground cable line

Scope of work:

- Removal of 24 existing underground cable joints manufactured by Ixosil
- Preservation of the existing cables for connection to the new joints
- Installation of 24 new joints from the same manufacturer
- Installation of cable sheath earthing and link boxes

SUPPLY AND INSTALLATION OF 220KV CABLE TERMINATIONS FOR HAI CHAU 220KV SUBSTATION PROJECT



SUPPLY AND INSTALLATION OF CABLE ACCESSORIES FOR CON DAO 110KV SUBMARINE CABLE PROJECT



OUR PARTNERS



On the journey of creating sustainable value, ARV focuses on building an ecosystem of partners and customers founded on absolute trust. Here, close collaboration and shared vision are the keys that enable us to combine our strengths, overcome challenging goals, and reinforce our solid position in the market.

ISO 9001:2015



GIẤY CHỨNG NHẬN

CERTIFICATE OF REGISTRATION

Chứng nhận Hệ thống Quản lý Chất lượng của:

This is to certify that the Quality Management System of:

CÔNG TY TNHH ARV TRADING AND SERVICES
ARV TRADING AND SERVICES COMPANY LIMITED

Địa chỉ: C2-18 (18-20) Tòa Nhà Golden King, Số 15 Nguyễn Lương Bằng,
Phường Tân Mỹ, Tp. Hồ Chí Minh, Việt Nam

*Address: C2-18 (18-20) Golden King Building, No. 15 Nguyen Luong Bang,
Tan My Ward, Ho Chi Minh City, Vietnam*

Đã được đánh giá và xác nhận phù hợp với các yêu cầu của tiêu chuẩn:

Has been assessed and found to conform with the requirements of the following standard:

ISO 9001:2015

Cho lĩnh vực/ for the following activities:

1. Lắp đặt vật tư, thiết bị điện, hệ thống điện/ *Installation of electrical materials, equipment, and electrical systems;*
2. Thí nghiệm thiết bị điện, hệ thống cáp ngầm, hệ thống điện/ *Testing electrical equipment, underground cable systems, electrical systems./*

Số chứng nhận/ *Certificate No:* W2595

Ngày ban hành/ *Issue date:* 05/11/2025

Ngày hết hạn/ *Expiry date:* 04/11/2028

(Hiệu lực của giấy chứng nhận các năm tiếp theo sẽ được thể hiện kèm theo quyết định duy trì chứng nhận sau mỗi lần đánh giá giám sát)





Vũ Mạnh Dân

Công ty cổ phần Chứng nhận WCERT - Phòng 504, số 19 Liễu Giai, Ba Đình, Hà Nội. Điện thoại/Zalo: 0903.275.218/ 0945.378.889. Email: cn.wcert@gmail.com

SERVICE QUALITY CERTIFICATION



Zhongtian Technology Submarine Cable Co., Ltd
No.1, Kinkai South Road, Nantong (TDA, Jiangsu Province, P.R. China hereby confirm that we have used the services of ARV Trading and Services Company Limited for our project: "Supply electricity from the National Grid to Cun Dao District, Ba Ria - Vung Tau Province" with details as follows:

USER CERTIFICATION

To Whom It May Concern:

We, **ZHONGTIAN TECHNOLOGY SUBMARINE CABLE CO., LTD (ZTT)** having address at No.1, Kinkai South Road, Nantong (TDA, Jiangsu Province, P.R. China hereby confirm that we have used the services of ARV Trading and Services Company Limited for our project: "Supply electricity from the National Grid to Cun Dao District, Ba Ria - Vung Tau Province" with details as follows:

No.	Description	Quantity	Implementation Year
1	Installation services for Plaster cable accessories		
1	Dry self-supporting outdoor termination EST23-CRBL	3pcs	06/2024
2	Cable joint for connecting between land cable and submarine cable MSAJ10000-F/MSAJ20000-CP-LF	3pcs	06/2024
3	Cable joint for connecting between submarine cable and submarine cable MSAJ23-JC06	3pcs	06/2024

List of personnel performing installation and termination works (person):

1. Dang Kim Tuan	5. Nguyen Minh Anh
2. Nguyen Van Hung	6. Nguyen Van Thang
3. La Van Dung	7. Tran Minh Sang
4. Dang Kim Chau	8. Nguyen Lam Toi

We hereby confirm that the quality of the aforementioned services provided by ARV Trading and Services Company Limited can satisfy project requirements.

Yours Sincerely,

Frank Tang

Senior Project Manager

frank.tang@zttgroup.com



CÔNG TY TNHH ARV TRADING AND SERVICES
Cố (05/28/20), Tòa nhà Golden King, 15 Nguyễn Lương Bằng
Phường Tân Mỹ, TP HCM, Việt Nam
☎ +84 28 34 111 807 📠 +84 28 34 111 802



Date/Ngày: 28/12/2023
Số/Số: 1148/20087

TRADING FOR PHUQUYNHAM MARINE SHIPYARD JOINT STOCK COMPANY (PVNY)
CÔNG TY CỔ PHẦN CHẾ TẠO GIÀN KHOẢN BÀU KHU (PVNB)
Address: Ngõ 45A/2, Ngõ 4 Street, Rach Dua ward, Ho Chi Minh city
Địa chỉ: Ngõ 45A/2, đường RV4, phường Rach Dua, Thành phố Hồ Chí Minh
Tel: +84-234-383 8834 / Fax: +84-234-383 8176

Subject/Vấn đề: Request to certify performance of supplied cable pulling, installation and termination of cable accessories, and testing services for 66kV and 161kV cable systems

Đề nghị xác nhận hoặc thành lập vụ thí công kéo cáp, lắp đặt, đấu nối phụ kiện cáp và thí nghiệm hệ thống cáp 66kV và 161kV

Contract No. 01/2024/1148/ARV-PVS dated August 19th, 2024
Hợp đồng số 01/2024/1148/ARV-PVS ngày 19/08/2024

Package: Cable pulling installation, installation and termination of cable accessories, and testing services for 66kV and 161kV cable systems
Gói thầu: Thí công kéo cáp, lắp đặt, đấu nối phụ kiện cáp, lắp nối và thí nghiệm hệ thống cáp 66kV và 161kV

Project/Dự án: TPC Offshore Wind Power Generation Phase II

First of all, ARV Trading And Services Co., Ltd. would like to express our sincere appreciation to you for your kind cooperation thus far.

Trước hết, Công ty TNHH ARV Trading And Services xin chân thành cảm ơn sự hợp tác tích cực của Quý Công ty trong thời gian qua.

Under Contract No. 01/2024/1148/ARV-PVS dated 19 August 2024 signed with you, we have provided cable pulling, installation and termination of cable accessories, and testing services for the 66kV and 161kV cable systems for the Project "TPC Offshore Wind Power Generation Phase II", with scope of performed work as follows:

Chúng tôi đã cung cấp dịch vụ thí công kéo cáp, lắp đặt, đấu nối phụ kiện cáp và thí nghiệm hệ thống cáp 66kV và 161kV theo Hợp đồng số 01/2024/1148/ARV-PVS ngày 19/08/2024 ký với Quý Công ty, cho Dự án: "TPC Offshore Wind Power Generation Phase II" và hoàn thành trong tháng 06/2023, với phạm vi công việc đã thực hiện như sau:

Đạt/Tung L.T

CÔNG TY CỔ PHẦN
TẬP ĐOÀN PC1

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập - Tự do - Hạnh phúc

Hà Nội, ngày 23 tháng 12 năm 2023

GIẤY XÁC NHẬN

Chúng tôi, CÔNG TY CỔ PHẦN TẬP ĐOÀN PC1, có địa chỉ tại Tầng 1, 2 và KT
Tòa CTL số 503 đường Nguyễn Trãi, phường Thanh Liệt, TP. Hà Nội xác nhận rằng chúng
tôi đã sử dụng hàng hóa và dịch vụ của Công ty TNHH ARV Trading and Services cho dự án:
"Cấp điện từ lưới điện Quốc gia cho huyện Cồn Dãng, tỉnh Hà Tĩnh - Vĩnh Tân", theo hợp đồng
số 06/2025/1106/ARV-PC1 ngày 12/3/2025, 02/2025/10608103/ARV-PC1 ngày 29/08/2025,
với các hạng mục và thời như sau:

STT	Mô tả	Nguồn/Nguồn gốc	Số lượng	Năm thực hiện
1	Hàng hóa			
1	Đầu cấp nguồn từ EST123-CBL	Photona Châu Âu	05 bộ	05/2025
2	Đầu cấp cáp từ và cáp biến cho cáp không có sợi quang MDA170-XGG	Photona Châu Âu	02 bộ	05/2025
3	Đầu cấp cáp từ và cáp biến cho cáp có sợi quang MDA170-XGG-OP-LF	Photona Châu Âu	04 bộ	05/2025
4	Phụ kiện nối sợi quang cáp ngầm	Photona Châu Âu	04 bộ	05/2025
II	Dịch vụ thi công lắp đặt cáp MDA			
1	MDA123-DGB	-	06 bộ	08/2025

Danh sách chuyên viên tham gia thi công lắp đặt đầu cấp và cáp:

- | | |
|----------------------|---------------------|
| 1. Ông Kim Tuấn | Chuyên viên đầu nối |
| 2. Nguyễn Văn Hoàng | Chuyên viên đầu nối |
| 3. Lê Văn Dũng | Chuyên viên đầu nối |
| 4. Nguyễn Văn Quang | Chuyên viên đầu nối |
| 5. Nguyễn Nhật Anh | Chuyên viên đầu nối |
| 6. Nguyễn Văn Thắng | Chuyên viên đầu nối |
| 7. Nguyễn Việt Thanh | Chuyên viên đầu nối |
| 8. Nguyễn Văn Hòa | Chuyên viên đầu nối |

Chúng tôi xác nhận rằng chất lượng hàng hóa và dịch vụ thi công do Công ty TNHH
ARV Trading and Services cung cấp hoàn toàn đáp ứng các yêu cầu của Hợp đồng.

Xác nhận:

- Thủ tục;

- Lưu VT, KPC.

KT. TỔNG GIÁM ĐỐC
PHÓ TỔNG GIÁM ĐỐC



Đặng Quốc Tường

CÔNG TY CỔ PHẦN XÂY LẬP ĐIỆN
CÔNG NGHIỆP

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập - Tự do - Hạnh phúc

Hà Nội, ngày 23 tháng 12 năm 2023

GIẤY XÁC NHẬN

Chúng tôi, CÔNG TY CỔ PHẦN XÂY LẬP ĐIỆN CÔNG NGHIỆP, có địa chỉ tại số 315, phố
Trần Đại Nghĩa, phường Trương Định, quận Hai Bà Trưng, Thành phố Hà Nội, xác nhận
rằng chúng tôi đã sử dụng dịch vụ thi công của Công ty TNHH ARV Trading and Services cho
dự án: "Dự án đầu tư xây dựng Khu đi thị nhập vùng mới - Sunshine Grand Capital", theo
hợp đồng số 00/2025/1276/ARV-PCO ngày 08/04/2025, với các hạng mục và thời như sau:

STT	Mô tả	Số lượng	Năm thực hiện
I	Dịch vụ thi công		
1	Lắp đặt cáp ngầm một đồng XLPE- 3x120mm ² -10kV - có sợi quang	1408 m	05/2025
2	Lắp đặt cáp ngầm một đồng XLPE- 3x120mm ² -10kV - không có sợi quang	2928 m	05/2025
3	Lắp đặt cáp nối đầu dây tuyến Cu/XLPE 1kV 3x240 square	1404 m	05/2025

Danh sách chuyên viên tham gia thi công lắp đặt:

- | | |
|----------------------|------------------------|
| 1. Nguyễn Xuân Thịnh | 8. Nguyễn Long Thịnh |
| 2. Phạm Lê Anh Phong | 10. Nguyễn Hữu Long |
| 3. Phạm Cao Nhân | 11. Bùi Văn Phong |
| 4. Trần Văn Trường | 12. Huyền Quốc Hải |
| 5. Phạm Phước Đại | 13. Nguyễn Trung Nghĩa |
| 6. Đỗ Xuân Thắng | 14. Nguyễn Thanh Phú |
| 7. Phạm Tuấn Cường | 15. Lê Chí Hòa |
| 8. Phạm Anh Tuấn | 16. Nguyễn Văn Hoàng |

Chúng tôi xác nhận rằng chất lượng của dịch vụ thi công do Công ty TNHH ARV Trading
And Services cung cấp hoàn toàn đáp ứng các yêu cầu của Hợp đồng.

CÔNG TY CỔ PHẦN XÂY LẬP ĐIỆN CÔNG NGHIỆP



PHÓ GIÁM ĐỐC
Nguyễn Thanh Hoàng

Trang 1/1





ARV Trading And Services Company Limited



C2-18 (18-20), Golden King Building, 15 Nguyen Luong Bang Street, Tan My Ward, Ho Chi Minh City, Vietnam



+84 285 411 7351



arv.com.vn



sales@arrea.com

