

PT.SOLUSI INTI PROTEKSI

COMPANY PROJECT CATALOG

www.ptsolusiintiproteksi.com



Cathodic protection

The main project of PT Solusi Inti proteksi company is cathodic protection using the SACP method.

OUR PROJECT



01 SACP (SACRIFICIAL ANODE CATHODIC PROTECTION)

- THIS COMPANY'S MAIN PROJECT IS TO INSTALL CATHODIC PROTECTION USING THE SACRIFICIAL ANODE METHOD

02 PROJECT ASSESSMENT OF PIPELINES USING CIPS AND DCVG METHODS

- CIPS PROJECT ASSESSMENT TO KNOW THE PROTECTION VALUE OF PIPELINES ON THE LINE
- PROJECT ASSESSMENT USING DCVG METHOD IS CARRIED OUT TO FIND OUT THE INDICATION OF PIPE COATING DEFECTS ON THE LINE

03 GROUNDING AND SOIL TEST

- MEASURING GROUNDING AREA USING EARTH TESTER
- CONDUCTING SOIL TEST VALUE MEASUREMENTS IN A WORK AREA

04 MATERIAL COMPONENT PRODUCTION

- PRODUCTION OF GAS STAKES, MARKER POSTS AND OTHER MATERIAL COMPONENTS REQUIRED IN CONSTRUCTION PROJECTS

05 CIVIL CONTRUCTIONS WORK

- CIVIL WORKS SUCH AS VALVE BOX MANUFACTURING IN PIPELINE PROJECTS
- CIVIL CONSTRUCTION WORKS IN THE ASPECT OF EXCAVATION FOR PIPELINE PROJECTS
- CIVIL CONSTRUCTION WORKS FROM THE ASPECT OF RELOCATION OF PROJECT COMPONENTS SUCH AS TEST POINT POLES, VENTING AND OTHER COMPONENTS REQUIRING RELOCATION

PROJECT LIST

SACP (SACRIFICIAL ANODE CATHODIC PROTECTION)

The SACP method is one of the cathodic protection methods that uses anode components as victims in the installation process. Anodes used in underground pipelines usually use magnesium as anodes in the cathodic protection process. PT Solusi Inti Proteksi uses high-potential magnesium anode components so that in its installation it can maximally protect the pipeline network that is installed with the cathodic.



PROTECTION CORE SOLUTION

SACP AT PROJECT CCT PIPE 16''



SACP AT PROJECT FAJAR WISESA, BEKASI



SACP AT SACP ON PROJECT IN KENDAL INDUSTRIAL AREA



SACP AT PT. SGMW CIKARANG



SACP AT JABABEKA PROJECT, BEKASI



SACP AT PT CHEETAM GARAM CILEGON



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PROJECT LIST

SACP PORTOFOLIO PROJECT PT. SOLUSI INTI PROTEKSI

SACP AT PROJECT CIKARANG PIPE 4''



SACP AT PT.MOUNT SCOPUS INDONESIA, BOGOR



SACP AT PT NORREL PIPE 4''



SACP AT PT TERAOKA SEISHAKUSO INDONESIA PIPE 6''



SACP AT PROJECT BEKASI



SACP AT CA PROJECT CIKANDE



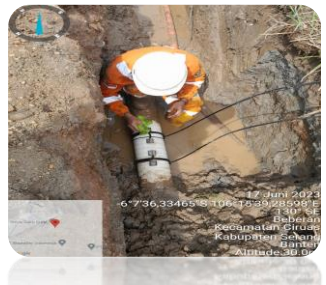
SACP AT PT DONGSUN JAKARTA



SACP AT PT FLYNINDO



SACP AT PROJECT PERTAGAS, CIKANDE



SACP AT PT DUTA PIPE 6''



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PROJECT LIST

SACP PORTOFOLIO PROJECT PT. SOLUSI INTI PROTEKSI

SACP AT PROJECT KENDAL , CASSING AUGER 12''



SACP AT PT.PROJECT KENDAL, KP 5+000



SACP AT PT PROJECT CCT , KP 1+275



SACP AT PROJECT CCT, CB KLARIANT



SACP AT PT NITIGURA



SACP AT PGN JAKARTA BUILDING AREA



SACP AT PROJECT JABABEKA, KP 0+666 (CP3)



SACP AT PROJECT , KP 1+470 (CP6)



SACP AT PT CHEETAM GARAM INDONESIA, CILEGON



SACP AT PT AMER TEKNOLOGI INDONESIA



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PROJECT ASSESSMENT OF PIPELINES USING CIPS AND DCVG METHODS

Project assessment CIPS AND DCVG AT ALAM SUTERA , TANGERANG





Project manual assessment at semarang



Project assessment at bekasi



Project assessment using the CIPS method is an assessment method used to determine the potential value of pipe protection at each point along the pipe. While the DCVG assessment method is an assessment method used to detect coating defects at certain points along the underground pipeline.

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GROUNDING AND SOIL TEST

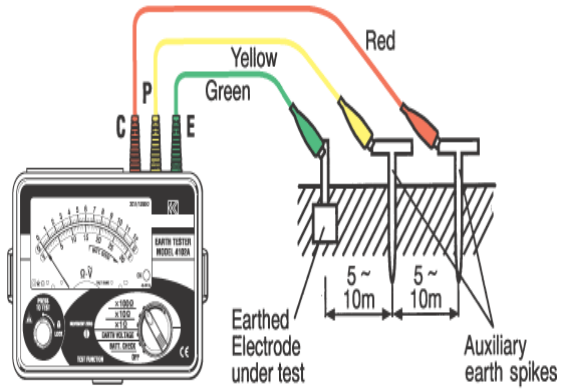
GROUNDING TEST

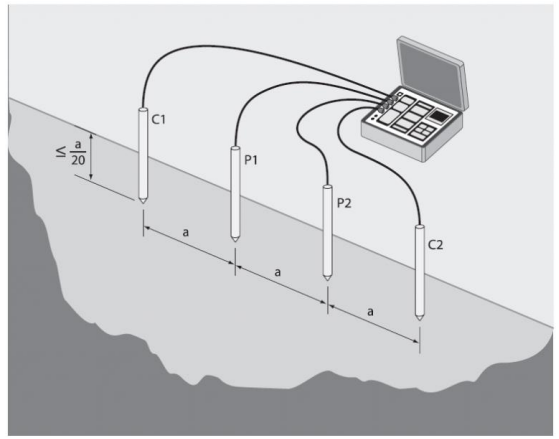
GROUNDING TEST IS A METHOD USED TO MEASURE THE VALUE OF SOIL RESISTANCE AND TO OBTAIN SOIL RESISTIVITY DATA IN THE AREA

SOIL RESISTIVITY

SOIL TEST

SOIL TEST IS A CONSTRUCTION ACTIVITY CARRIED OUT WITH THE PURPOSE OF OBTAINING VARIOUS INFORMATION SUCH AS PHYSICAL, CHEMICAL AND GEOLOGICAL PROPERTIES OF THE SOIL IN A CERTAIN AREA AND IS RELATED TO GEOTECHNICAL SCIENCE





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GROUNDING AND SOIL TEST DOCUMENTATION

PT SOLUSI INTI PROTEKSI CONDUCTS GROUNDING AND SOIL TESTING USING A DIGITAL EARTH TESTER IN THE MRS AREA OF PT LOTTE CHEMICAL INDONESIA, CILEGON, WEST JAVA













GROUNDING AND SOIL TEST PT. SOLUSI INTI PROTEKSI JUNE 22, 2024 AT PT LOTTE CHEMICAL INDONESIA, CILEGON

PT.SOLUSI INTI PROTEKSI

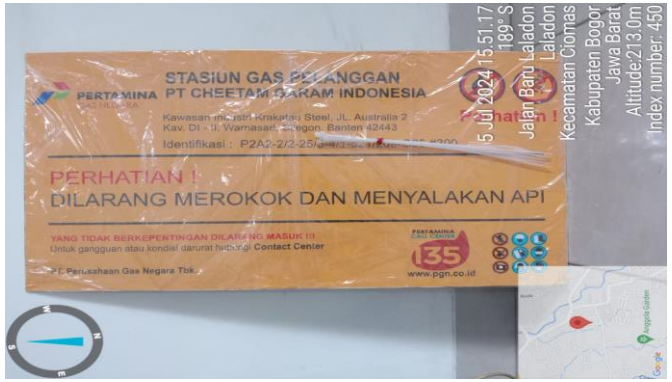
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MATERIAL COMPONENT PRODUCTION

Pt solusi inti proteksi also moves in providing construction component needs or as a provider of construction materials needed. Components that are often produced include marker post poles, TT gas stakes, cathodic test point poles and can provide cathodic installation materials themselves.









CONSTRUCTION COMPONENTS OF CATHODIC INSTALLATION

MATERIAL COMPONENT PRODUCTION



full concrete testpoint pole



Production of gas peg and test points for the Kendal project, 2023





Production of gas peg for the Bekasi project, 2024

PT Solusi Inti Proteksi is often used as a partner by large companies in providing components and construction materials needed for the needs of a company's own projects.

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cathodic installation material components





Installation materials from PT Solusi Inti Proteksi always use certified materials for each component. This is done with the aim of maintaining the quality of each component so that it can be used properly and has good value when used for cathodic protection installations.

cathodic installation material

1. Cathodic protection test point
2. Magnesium anode
3. Pipe wrapping
4. Royston handycap
5. Thermoweld gunpowder
6. red cable and black cable installation







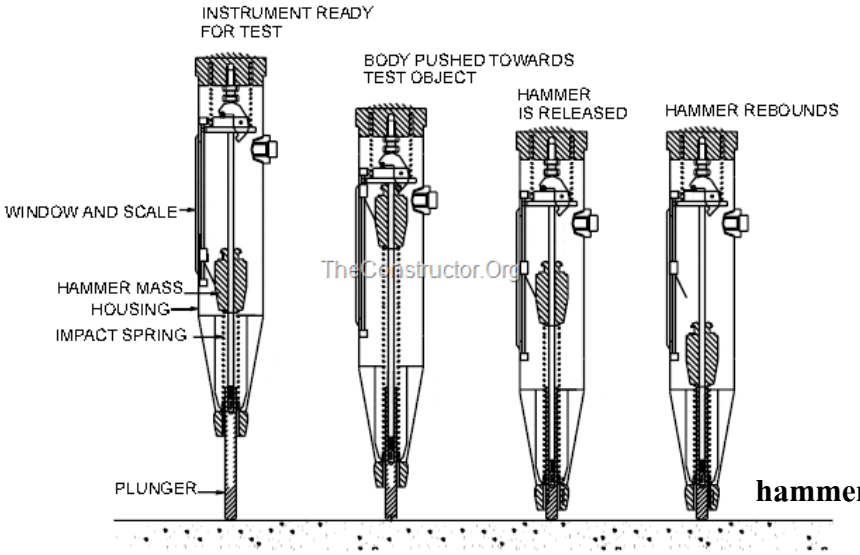




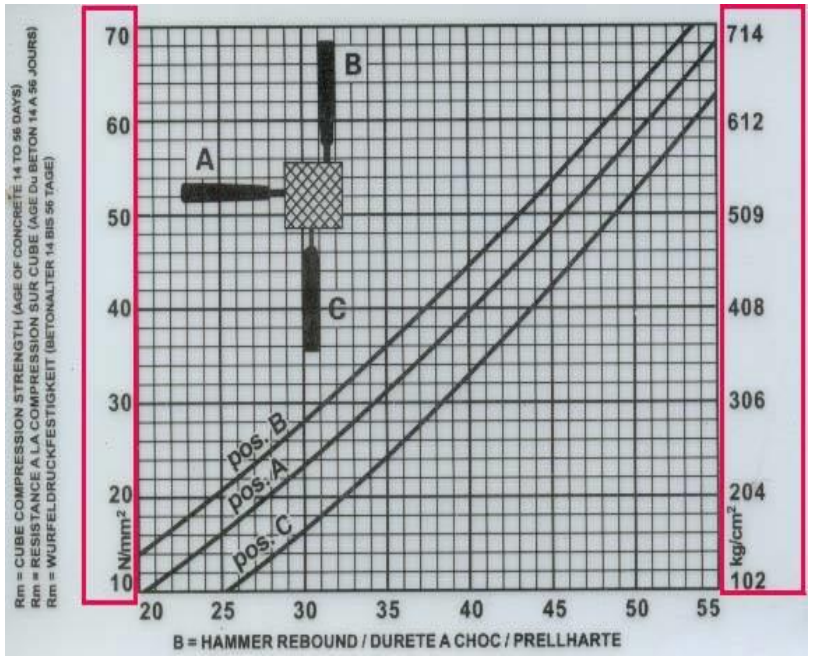


MATERIAL COMPONENT PRODUCTION

Hammer Test is a non-destructive method used to measure the hardness of concrete or other construction materials by striking the surface of the material with a special hammer called a “rebound hammer.” The basic principle behind this test is that the harder the construction material, the higher the rebound or bounce of the hammer when it hits its surface.



hammer test measuring instrument components

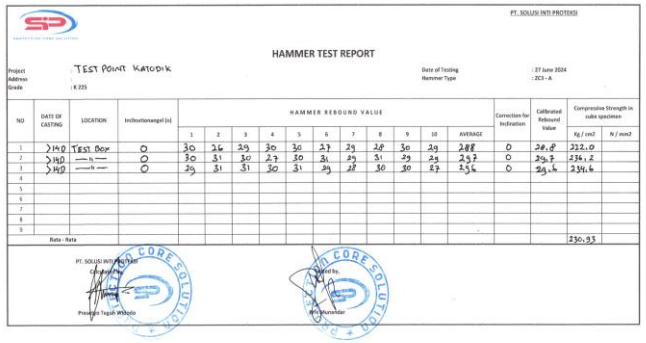


hammertest calculation chart

MATERIAL COMPONENT PRODUCTION

All production results from PT Solusi Inti Proteksi are also accompanied by concrete test values before being submitted to the company's partners. This is implemented to maintain the quality of the company's production results so that they always get good grades from partners because the quality and quality of the company's production results are always maintained.

Gas concrete test value



HAMMER TEST REPORT

PT. SOLUSI INTI PROTEKSI

NO	DATE OF CASTING	LOCATION	Inclinationangel (o)	HAMMER REBOUND VALUE										Correction for Inclination	Calibrated Rebound Value	Compressive Strength in cube specimen	
				1	2	3	4	5	6	7	8	9	10	AVERAGE			Kg / cm2	N / mm2
1	2/4/0	Test Box	0	30	26	29	30	30	27	29	28	30	29	288	0	28.8	232.0	
2	2/4/0	—"—	0	30	31	30	27	30	31	29	31	29	29	297	0	29.7	234.2	
3	2/4/0	—"—	0	29	31	31	30	31	29	27	30	30	27	295	0	29.4	234.6	
4																		
5																		
6																		
7																		
8																		
9																		
Rata - Rata																	230,93	



Hammer test process for Gas peg



Hammer test process for markerpost poles

CIVIL CONTRUCTIONS WORK

Civil construction contractors have an important role in ensuring that construction work runs smoothly and according to plan. They must have a strong knowledge of construction materials, construction methods, and applicable technical regulations and requirements. The role of PT Solusi Inti Proteksi in civil aspects includes aspects such as earthwork teams, construction component relocation work and the manufacture of valve boxes in pipeline work.







CIVIL CONTRUCTIONS WORK

PT Solusi Inti Proteksi was also entrusted to handle the relocation of PGN venting on the CCT toll road project by PT Waskita. The image on the side is documentation of the venting relocation work on the CCT toll road project by PT Waskita.









CIVIL CONTRUCTIONS WORK

PT Solusi Inti Proteksi was also given the trust to assist PT Epik's work in the gas pipeline network project along the Mangkang-Ngaliyan Semarang route in terms of excavation aspects.







CIVIL CONTRUCTIONS WORK

In the field of civil construction work, Pt solusi inti proteksi can also deploy a team in the aspect of making box valves in underground gas pipeline development projects. Pt. solusi inti proteksi is usually trusted by partners to contribute to the gas pipeline project owned by PT pertamina gas negara. Below is documentation of the manufacture of a valve box in an underground gas pipeline network development project.







CIVIL CONTRUCTIONS WORK

PT Solusi Inti Proteksi has also been trusted by its partners to carry out relocation work on cathodic test point poles in the Jakarta area. This relocation work was carried out because the existence or position of the test point pole at that time would become the front access road for the building under construction. The PT Solusi Inti Proteksi team carried out civil works to relocate the cathodic test point pole and ensured that the relocation of the test point would not affect the value or function of the cathodic protection system that had been installed at that point.









documentation of relocation of PT PGN test point poles in the Jakarta area

CIVIL CONTRUCTIONS WORK

PT Solusi Inti Proteksi is also trusted to carry out concrete panel fence installation projects with varying areas including land clearing in an area.

One of the concrete panel fence installation projects carried out by SIP is the project "Securing non-network assets owned by PT. PGN in 4 areas (Curug Wetan and Bitung Tangerang, and Babakan Madang and Sukaraja, Bogor). The project is a panel fence installation project accompanied by land clearing in the area.









Documentation of PT PGN's non-network asset security project

CIVIL CONTRUCTIONS WORK

PT. Solusi inti proteksi also accepts civil aspect work such as house construction, gabion construction, foundation construction and other repairs. We have also been trusted several times as partners by PGN MAS in civil work aspects, in addition to installing concrete panel fences, SIP has also been trusted to complete the PGN Kedep offtake wall repair project.









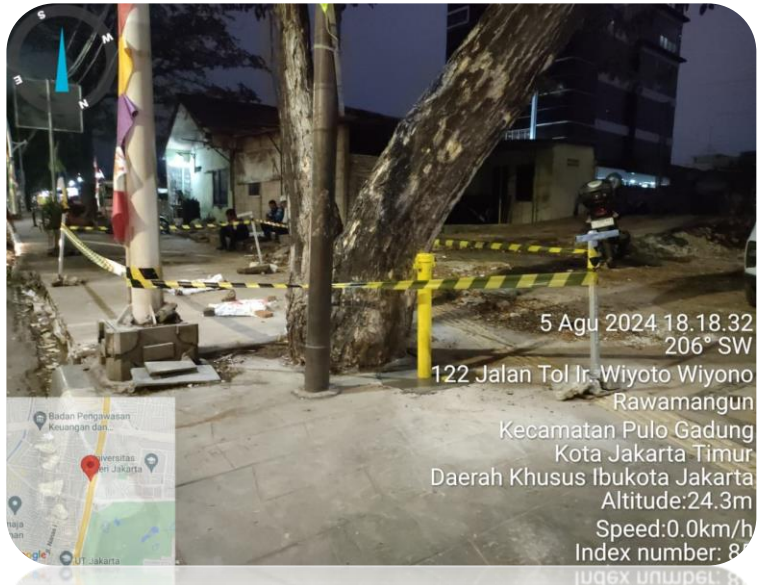
Documentation of the project for repairing the walls of the Offtake Kedep gas station office in the Bogor area

CIVIL CONTRUCTIONS WORK

The relocation of the cathodic test point in the Jakarta area was carried out at the same time as the repainting of the test point pole.



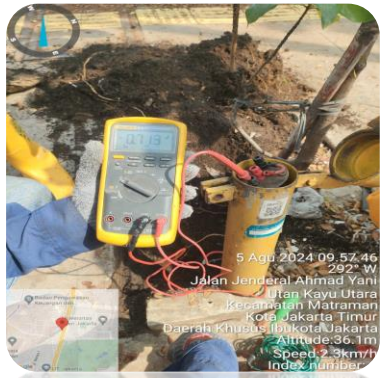
BEFORE RELOCATION



AFTER RELOCATION

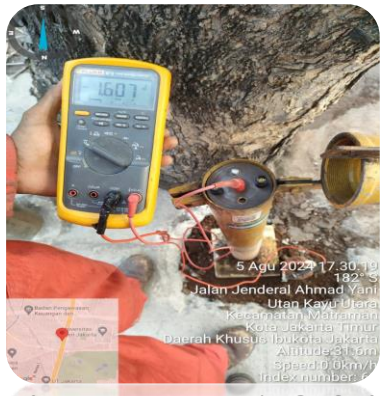
CIVIL CONTRUCTIONS WORK

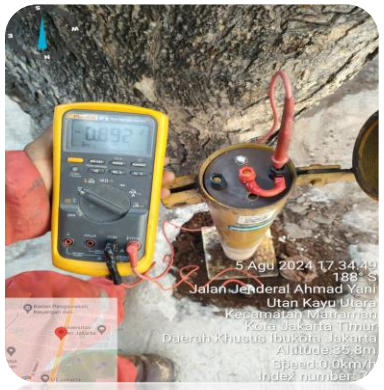
In the process of relocating the test point, the team remains careful and ensures that the value or function of the installed cathode is not disturbed. This can be seen during commissioning after the testpoint pole has been relocated.





BEFORE RELOCATION





AFTER RELOCATION

The commissioning results before and after relocation showed the anode value and protection potential at the same number. This shows that the team succeeded in relocating the cathodic test point pole without damaging the cathodic protection construction that was previously installed at that point.

SACP ON GAS STATION BUILT-IN TANKS

Fuel storage tanks or fuel oil are tanks used as fuel storage facilities or fuel oil which will later be distributed to gas station dispensers or filling pumps. These tanks are specifically designed to keep fuel stored safely and need to be monitored so that fuel remains available.

Fuel storage tanks are generally placed below ground level. Therefore, these storage tanks are known as underground storage tanks. These tanks are designed to prevent spills, leaks, and other hazardous incidents that can harm the environment and human health.

Fuel storage tanks have a size that allows them to hold large amounts of liquid or gas.









SACP ON GAS STATION BUILT-IN TANKS

Fuel storage tanks have a size that allows them to hold large amounts of liquid or gas. Basically, fuel storage tanks are made of steel, aluminum, fiberglass, and a combination of materials. Based on their placement, there are several types of fuel storage tanks.





Documentation of the underground tank at the Merangin gas station, Jambi

SACP ON GAS STATION BUILT-IN TANKS

The underground gas station tanks that are located underground are also prone to corrosion, therefore cathodic protection is also needed to protect the underground gas station tanks.

PT Solusi Inti Proteksi was entrusted to assist in the cathodic protection of underground tanks in the gas station construction project in the Merangin area, Jambi. This cathodic protection is carried out to protect underground tanks from corrosion when they are placed underground. The protected underground tanks are 20 KL and 30 KL in size. Of course, the protection is carried out optimally and obtains a protection value that meets cathodic protection standards.









SCAP installation documentation for 20 and 30 KL gas station tanks, Merangin Jambi

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