



ELECTRO PROTECTION SERVICE







Electro Protection Services India Private Limited offers Design, Engineering, Manufacture and Supply of Cathodic Protection Materials for the past two decades.

Corrosion Specialist





















PREQUALIFICATION STATEMENT

- EPSIPL commenced their activities in a humble way during 1983.
- We have the complete know-how and infrastructure for manufacture of these anodes at our works at Karaikudi.
- EPSIPL's decades 26 years of experience in manufacture of Cathodic Protection materials needs in the market.
- EPSIPL provides design, manufacturing, consulting, delivery, and installation supervision to any of the world's main market areas.
- We are committed to partnering with our customers to help them to increase their competitiveness.













THE SERVICES INCLUDES

- Pre and post construction services.
- Design studies on the technical and commercial viability of Cathodic Protection.
- Supply of all Materials associated with Cathodic Protection.
- Installation of cathodic protection systems / supervision of clients installation team.
- Commissioning of the Cathodic Protection Systems.
- Maintenance of the Cathodic Protection System.
- Specialized surveys.















PROMOTER

- The company was founded in the year 1981 by our Founder, Promoter and Chairman, Dr.R. Thangappan, B.Sc (Tech) Chem. Engg., Ph.D., MIE., MIIChE.
- He is a well acclaimed and eminent scientist turned entrepreneur, who during his scientific career at CECRI – Karaikudi invented Dimensionally Stable Anodes.
- His invention was further commercialized in his then founded company Titanium Tantalum Products Limited under the name of ATMA (Activated Titanium Metal Anodes).











COMPANY DETAILS

Name	•	Electro Protection Services India (P) Ltd
 Office 	:	Plot No:6, Cauvery Street, Guruswamy Nagar Extn., Sempakkam, Chennai–600 0073 Tamilnadu, India. Phone : 0091 - 44 – 22780677 Fax : 0091 – 44 – 22780688
E-mail (office)	•	sales@epsipl.com, md@epsipl.com
Factory	•	Plot No. 59 & 60, Kottaiyur Main Road, Karaikudi - 630 002.



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E-mail (Factory) : works@epsipl.com

Phone : 04565 - 224884







CERTIFICATE

इंडिया लिमिटिड 🥣	ENGINEERS INDIA LIMITED	and Anna and a second and a second and a second a second as a second as			
(খাবে খবেজাৰ জা তথ্যজ্ঞণ) থঁলীকুন কায়েনিয়ে : হুঁজীনিয়ৰোঁ হুঁটিয়ে খবন, 1, গ Regd.Office : Engineers India Bhavan, 1, Bh Procurement Developr	nikalji Cama Place, New Delhi-110066 nent Department	इंजीवियर्स इंडिया लिमिटेड (भारत सरवगर का उपजम) ईजीवियर्स हिंद्या प्रक्र 1. भौजविय हिंद्या प्रक्र 1. भौजविय हिंद्या प्रक्र 1. Bhikaiji Cama Place, 1. Bhikaiji Cama Place,			
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M/s Electro Protection Services India Pvt.,Ltd. 86/1, Vengaivasal Main Road Gowrivakkam Chennai – 601 302 Subject : Revalidation of Dear Sirs,	Enlistment with EIL	REF:8518/PDD/1/E/E-100 DATE :22.12.92 M/s Electro Protection Services 161, Velacherry Road, Fast Tamberram, PMUX05-600 059			
We refer to your application on subject matter enlistment with EIL has been revalidated for the i		. Subi Vendor Enlistment for ALMINIUM ALLOX ANODE			
Item Description	Time	Dear Sirs,			
Anodes for CP System	Type Magnesium, Zinc, Aluminium	We refer to your letter No.EPS/92-93/276 dtd 20.8.92 seeking en manufacture and supply of subject item. We have examined your			
(This enlistment is valid for your works Karaikudi– 630 002, Tamilnadu). Please note that this revalidation is subject to s and quality of above mentioned items when orde Further, it may be noted that any change in the Office, Management/ Organisation structure et along with relevant document for our necessary above referred changes is not intimated timely, e enlistment with us is liable to be cancelled. En regular flow of enquiries.	atisfactory execution of orders in delivery red for our various projects. e product range, location of Works/Sales c. shall be intimated to us immediately action. In case, information to any of the our enquiries may not reach you and your listment with EIL shall not guarantee any	manufacture and supply of the item as described below: S.NO EQUIPMENT DESCRIPTION I. ALMENTIAN ALLOY ANDRE I. ALMENTIAN ALLOY ANDRE I. ALMENTIAN ALLOY ANDRE Please note that the above enlistment is subject to performance in delivery and quality of above mentioned items for our various projects. Thanking you, Yours truely.			
The validity of this ENLISTMENT is upto 30th Jun	ne, 2009.				
You are advised to contact us 6 months be revalidation of your enlistment is taken up.	efore expiry of the enlistment, so that	(M.G.K.RAD) DY.GENERAL MA			
Thanking you,					
Very truly yours					
(Sheel Yadav)		S. S			
Additional General Manager		ू:602121,601419 टेलेक्स 031-72401 72445 Fax:6874005,6872403 Box. 730, 722 Telex:031-82036 82040 82097 6874766 8074663			
Procurement Development Department		6874715, 6874663			
चत्कृष्टता का आधार - हमारे कमी DELIVERING	а EXCELLENCE THROUGH PEOPLE	· · · · · · · · · · · · · · · · · · ·			



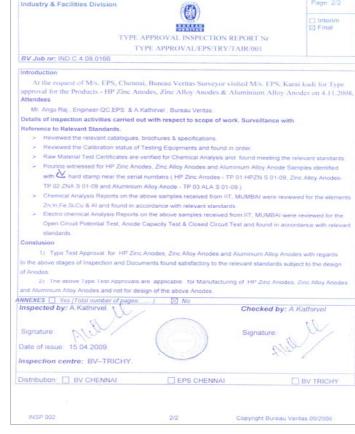






TYPE APPROVAL CERTIFICATE

	Page: 1/2							
		E APPROVAL INSP TYPE APPROVAL/I						
BV Job nr: IND C 4 08 0		TTE AFFROVADI	PS/DOT/DA	16/001				
PROJECT: TYPE TEST A ANODES			Ref: IND.C.	4.08,0166				
BV Client: M/S ELECTRO INDIA PVT LTD.CHENNAL	CTION SERVICES	P/o nr: (Client to BV)						
Manufacturer M/S ELEC	DTECTION	P/o nr:						
SERVICES INDIA PVT LTD, KARAIKUDI.			(Client to manufacture/)					
Inspection requested by:	: M/S ELE	ECTRO PROTECTIO	N SERVICES	INDIA PVT LTD,CH	ENNAL.			
SUPPLY / SUBJEC	T OF INS	SPECTION	TTEM	TYPE/NO				
Type Test Approval for manufacturing of High Purity Zinc , Zinc Alloy & Aluminium Alloy sacrificing Anodes.			High purity Zinc Anodes Zinc Alloy Anodes		1 Type			
					1 Type			
			Alumit	t Type				
OCUMENTS OF PEECO	CNOT				3 Types			
Title	ENCE: S	Reference of	Rev.	Approved by	0 Date			
ALUMINIUM ANODES		ALVALUM III	INCV.	Approved by	Date			
ZINC ALLOY ANODES	ASTM	1 B 418 - 01 TYPE I						
HP ZINC ANODES		B 418 - 01 TYPE II		_	-			
TESTING STANDARD		DNV RP B401			-			
NSPECTIONS :		Results of inspectio	n : 🖂 Satisfa	actory CT Unsatisfa	internet			
nspection place& Date /F	Period				ciury			
MS Electro Protection Services adia Pyte Ltd., Karaikudi. 04.11.2008		Non Conformities Reports (NCR): + NCR's issued during reported period Nil = List of outstanding NCR's - Nil						
Stage of inspection :		Main Conclusions & 1) Type Test Appro-	Remarks: (k	of details see continuation	n shoet)			
Before manufacturin During manufacturin	ng l	Aluminium Ale	Another Hit? Zu	ne Anodes, Zine Alloy /	Anodes and			
During manufacturing Final		Antististastes to b	Principals with h	egards to the above D	ocuments found			
Packing			tory to the relevant standards subject to the design of Anodes					
Cind of inspection: 2) Type Test appro		Type Test appro	oval for HP Zinc Anodes, Zinc Alloy Anodes and					
Pre-inspection meeting Aluminium Allay		Numinium Alloy Anodes are issued for Manufacturing of above						
 Witnessing tests Final inspection 		Anodes only and						
 Document review Expediting & vendor assessment Packing 		3) Renewal Survey to be performed at every three years.						
		 Survemance audit to be performed at every year. 						
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OUR PRODUCTS

- Sacrificial Anodes
 - Zinc
 - Aluminum
 - Magnesium
- Impressed Current Anodes
 - Mixed Metal Oxide
 - Platonized Titanium
 - Lead Silver
 - Ferro-silicon (Chromium)
 - Graphite Anode
 - Others (on special request)















SACRIFICIAL ANODES

Aluminum Anodes

- Superind EPS Aluminum Alloy Anodes
- Superin EPS Aluminum Alloy Anodes
- Supertin EPS Aluminum Alloy Anodes
- Hull Anode
- Tank Anode
- Magnesium Anodes
 - Standard Mg Anodes
 - High Potential Mg Anodes
- Zinc Anodes













SACRIFICIAL ANODES

- Marine Anodes
 - Hull Anode
 - Tank Anode
- Industrial Anodes
 - Condenser Anode
 - Heater Anode
 - Boiler Anode
- Offshore Anodes
 - Platform Anode
 - Jetty & Wharf Anode
 - Bracelet Anode















SACRIFICIAL ANODES

- High/Standard Potential
 - Bare Anode
 - Pre-packed Anode
 - D-Shaped Anode
 - Ribbon Anode
 - Extruded Anode
 - water Heater Anode















IMPRESSED CURRENT ANODES

- MMO Anodes
 - Wire Anode
 - Ribbon Anode
 - Expanded Mesh Anode
 - Probe Anode
 - Tubular Anode
 - Solid Rod Anode
- Platinized Titanium Anodes
 - Probe Anode
 - Wire Anode















IMPRESSED CURRENT ANODES

High Silicon Anodes

- Double Headed Anode
- Single Headed Anode
- Tubular Anode
- Pre-packed Anode
- Platinized Niobium Anodes
- Lead Alloy Anodes
- High Silicon Chromium Anodes













IMPRESSED CURRENT ANODES

- Water Heater Anodes
- Tank Anodes
- Wood Alloy Anodes
- Lead Bismuth Alloy Anodes
- Lead tin Alloy Anodes
- Lead Tin Silver Alloy Anodes
- Lead Tin Antimony Alloy Anodes























DESIGN STUDIES

- Based on the technical and commercial viabilities of cathodic protection in-house design facilities are available for all types of cathodic protection systems. The design function includes,
 - Material Specification
 - Installation Specification
 - Equipment and Installation Drawing
 - Bill of Materials
 - Operation and Maintenance Manual













SURVEYS

- Soil resistivity survey.
- Soil analysis.
- Potential and line current surveys.
- Holiday inspection of pipe coatings and cable insulation tests.
- Interaction testing on foreign structures.
- Current drainage surveys.
- Ground bed location.















INSTALLATION

- EPSIPL can provide a full system of Design Service, supply equipment, supervise its installation and commissioning.
- As a part, ESPIL offers installation services depending on the nature of the work to be executed and the resources it has available.
- In some cases, the client may opt to have the materials installed by its own contractor.
- But to engage services of EPSIPL to provide supervision and technical support.
- Our field engineers and technicians install complete system or supervise client's own personnel.













OTHER SERVICES

In addition to the turnkey cathodic protection work, EPSIPL offered specialized surveys such as,

- Corrosion inspection of pipeline
- Close interval potential survey
- Potential and line current survey
- Current attenuation survey
- Stray current analysis .















OTHER SERVICES

- Interaction and interference testing on foreign structure.
 - Due to cathodically protected foreign pipeline.
 - Due to EHT crossing.
 - Due to DC traction
- Coating defect survey (Pearson/DCVG)















CP FOR AUTO LPG DISPENSING STATION

- Soil Resistivity Survey
- Design of CP System
- Manufacturer & Supply of Anodes
- Erection , Installation, Testing & Commissioning
- AMC











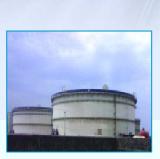




CP FOR ABOVE GROUND STORAGE TANK

- Design
- Installation of cathodic protection systems or the supervision of the clients installation team.
- Commissioning of the cathodic protection systems.
- Maintenance of the cathodic protection system.















OUR STRENGTHS

- EPSIPL since 1983, have always been in the fore front of Technological Development
- Cathodic Protection against corrosion has been and continues to be demanded in an ever increasing variety of operating conditions.
- EPSIPL always sets out to meet these new demands with innovative system design, and alloy formulation with a focus on.
- ESPIL facilitates all types of commissioning tests associated with cathodic protection systems.













OUR STRENGTHS

- Long Life Span with higher strength.
- Optimum Cell Voltage and savings on Power Cost.
- Eliminating Downtime in addition to low maintenance cost.
- Lower Anode Potential.
- Higher Current Density.
- Utmost Care to have no product contamination
- Resistant to adverse environments.















Inspection Agencies & Standards







MAJOR INSPECTION AGENCIES

- The works at Karaikudi which has been registered and approved by Engineers India Limited, approved with all major inspection agencies
 - DNV
 - Lloyds
 - BVIS
 - 🔹 EIL
 - CECRI
 - SGS
 - IRS
 - DGQA
 - ABS















STANDARDS

- Maintains comprehensive in-house quality control following stringent inspection procedures and monitoring in accordance to standards and technical design codes laid down by:
 - National Association of Corrosion Engineers (NACE)
 - Recommended Practices (RP)
 - British Standards
 - DNV
 - CP 1021
 - ASTM













THE WORKS AT KARAIKUDI

- Produce a single anode weighing up to 2 metric tones and has also accreditation from Engineers India Limited.
- Produce magnesium alloy anodes being up to 2 tones each.















Thank You



