

Technical Profile
NDT and Inspection Services



CUTECH PROCESS SERVICES PTE LTD

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Cutech is a diversified and rapidly expanding Engineering Company. We offer wide range of Services and Products to Industrial, Commercial, and Government clients across Petrochemical, Process, Oil & Gas, Marine, Cement and Power Sectors.

Our Core Services

- ✔ NDT, Inspection & Other Services
- ✔ Advanced NDT
- ✔ Engineering, Procurement and Construction (EPC) Projects
- ✔ Technical Manpower Outsourcing & Placement
- ✔ Technical Training & Certification
- ✔ Welding Consultancy and Testing
- ✔ Engineered Products & Services
- ✔ Offshore & Marine services
- ✔ Asset Integrity Management Services
- ✔ Software Development
- ✔ Diving, Anchorage and Sub Sea Services

Key Personnel Information

SL No	Name	Designation	Experience	Key qualification
1	N.Arunachalam	Chairman	34 Years	<p>BACHELOR OF ENGINEERING IN MECHANICAL</p> <p>DIPLOMA IN MECHANICAL ENGINEERING</p> <p>ASNT ACCP NDT LEVEL-III IN RT, UT, MT AND PT</p> <p>API 653 STORAGE TANK INSPECTOR,</p> <p>API 510 PRESSURE VESSEL INSPECTOR</p> <p>API 570 - PIPING INSPECTOR</p> <p>IRATA LEVEL –1 ROPE ACCESS TECHNIQUE</p>
2	G. Mathivanan	Managing Director	33 Years	<p>BACHELOR OF ENGINEERING - ELECTRICAL (Indian Navy)</p> <p>DIPLOMA IN ELECTRICAL ENGINEERING (Dept of Tech Education, Tamil Nadu, India)</p> <p>GRADUATE IN MARINE SYSTEMS - ELECTRICAL/ INSTRUMENTS (Education Centre, Ministry of Defense, Russia)</p> <p>DIPLOMA IN INFORMATION TECHNOLOGY (Informatics, Singapore)</p> <p>BASIC MARINE ELECTRICAL/ELECTRONIC ENGG.</p> <p>MARINE ELECTRICAL/INSTRUMENTATION ENGG. (SUBMARINE)</p>

3	P.Pugalendhi	Director – NDT & Projects	22 Years	<p>MASTER OF TECHNOLOGY (M.TECH) – POST GRADUATE DEGREE IN NDT BACHELOR OF ENGINEERING IN MECHANICAL ASNT NDT LEVEL –III IN RT, UT, MT, PT & ET PCN NDT LEVEL –III IN RT, UT, MT, PT CSWIP 3.2 SENIOR WELDING INSPECTOR API 510 PRESSURE VESSEL INSPECTOR API 570 – PIPING INSPECTOR API 653 – ABOVE GROUND STORAGE TANK INSPECTOR API 580 – RISK BASED INSPECTION BGAS-CSWIP PAINTING INSPECTOR GRADE-2 PCN NDT LEVEL II – RI, UT & PAUT CSWIP LRUT Level 2 LEEA – REGISTERED ENGINEER</p>
4	T. Murugan	Director – Inspection & Training	22 Years	<p>BACHELOR OF ENGINEERING IN MECHANICAL API 570 - PIPING INSPECTOR AWS - CERTIFIED WELDING INSPECTOR ASNT –NDT LEVEL III IN UT, MT, PT, RT & ET PCN –NDT LEVEL III IN UT, MT, PT, RT API 580 – RISK BASED INSPECTION API 510 PRESSURE VESSEL INSPECTOR API 653 - ABOVE GROUND STORAGE TANK INSPECTOR LEEA – REGISTERED ENGINEER IRCA – LEAD AUDITOR PCN NDT LEVEL II - RI</p>

5	Sathyanarayanan . AL	Director – NDT & Inspection	24 years	BACHELOR OF ENGINEERING IN MECHANICAL CSWIP 3.2 SENIOR WELDING INSPECTOR ASNT –NDT LEVEL III IN UT, MT, PT, RT, VT & ET PCN NDT LEVEL II - PAUT,UT and RI
6	V. Thirunavukkarasu	NDE Manager	8 years	BACHELOR OF MECHATRONICS ENGINEERING PCN LEVEL III – RT, UT, MT & PT, PCN RI API 653, AWS-CWI DS1 INSPECTOR, CSWIP LRUT LEVEL I IRATA ROPE ACCESS LEVEL I
7	Mohanraj .S	Manager NDT	10 years	BACHELOR OF AERONAUTICAL ENGINEERING ASNT LEVEL II IN RT, MT, PT, ET

Non Destructive Testing (NDT) Services

Cutech provides independent NDT & Inspection Services globally delivered by highly qualified and trained engineers and technicians. We offer services in Onshore and Offshore related to Oil & Gas, Marine, Petrochemical, cement and Power sectors. We undertake daily, short term and long term projects.

Our Inspection & NDT bodies are accredited by ISO 9001:2008, ISO 14001: 2004, OHSAS 18001:2007, SAC-SINGLAS, DNV - proving our competitiveness and adherence to internationally recognized standards of excellence.

NDT Services

- ✔ Radiography Testing
- ✔ Ultrasonic Flaw Detection and Ultrasonic Thickness Measurement
- ✔ Magnetic Particle Testing
- ✔ Dye Penetrant Testing
- ✔ Positive Material Identification
- ✔ Eddy Current Testing – Surface & Pulsed
- ✔ Phased Array Ultrasonic Testing (PAUT) and Time of Flight Diffraction (TOFD)
- ✔ Tube Testing – ECT, RFT, NFT, MFL, IRIS
- ✔ Tank Floor Scanning/ Mapping using MFL, Scorpion Ultrasonic Thickness Measurement of shell, Tank Settlement Survey / Calibration
- ✔ Robotic corrosion mapping using Rapid Motion Scanner (RMS) for Tank Shell, roof, Pressure vessel and Piping
- ✔ Long Range Ultrasonic Testing (LRUT)
- ✔ Magnetic Flux Leakage (MFL) Pipe / Plate Scanning
- ✔ Infrared Thermography Testing
- ✔ Vibration Analysis
- ✔ Visual Testing (Remote visual using Industrial Video scope)
- ✔ Ferrite Measurement
- ✔ High Temperature UT / UTG / PAUT
- ✔ High Temperature Hydrogen Attack (HTHA) Testing
- ✔ NDT and Level III Consultancy
- ✔ Rope Access Services
- ✔ ACFM
- ✔ Customized / Special NDT applications

Other Services

- ✔ Heat Treatment
- ✔ Hardness Testing
- ✔ In-service and Out of Service Inspection of Plant components (Piping, Pressure Vessel, Storage Tank)

Classification Society / Accreditation List





Project History (key Clients)

S.No	Client Details	Project Details	End Customer
1	PEC, Vietnam	PAUT,RVI	NSRP
2	Sankyu-Jurong Island	Shut down and Maintenance projects IRIS, ECT,PAUT, UT, MT,PT	Mitsui Phenol
3	Shell Eastern Petroleum, Singapore	Shut down and Maintenance projects for shell Refinery IRIS, LRUT, ECT, PAUT,TOFD,UT,PMI,MT,PT	Shell
4	Exxon Mobil, Singapore	Shut down and Maintenance projects, PAUT, RVI, RMS Corrosion Mapping, Tank Inspection, MFL Tank floor Mapping on FRP Coated tank floor	Exxon Mobil
5	Sankyu-Jurong Island	Shut down and Maintenance projects IRIS, LRUT, ECT,PAUT,TOFD,UT,PMI,MT,PT	Sumitomo Chemicals
6	Singapore Refining Company (SRC)	Shut down & Maintenance projects LRUT, ECT,PAUT,TOFD,UT,PMI,MT,PT	SRC
7	Applied Engg, Singapore	PAUT & TOFD On Heavy wall thickness pressure vessel	Applied Engg
8	Walco,Qatar	ECT on main condenser tubes	Al Sallah FPSO
9	Sembawang Shipyard Ltd, Singapore	ECT on main condenser tubes	UNS Milli knocket
10	Wartsila singapore	IRIS / RFET on main Boiler Tubes (K-Jasmine,K mukungawa,KOLT)	K-Line
11	Walco,Qatar	ECT On main condenser tubes	LNG Trinity Glory
12	Air Trade	MT, PT, PMI on Mechanical Ventilation Fans and other structures	Various clients
13	BSR, Vietnam	High Temperature UT & UTG on Reactor columns	Petro Vietnam
14	Keppel Shipyard Ltd, Singapore	Eddy Current Testing on crane and offshore structures	Keppel Shipyard Ltd, Singapore
15	Lead Management	RT, UT, MT, PT and ET on various Piping and structural components for various civil construction projects	Resort World Sentosa, M + W, Micron etc
16	TUV, SUD	Eddy Current Testing on rail tracks and structural	Sentosa, Resort World Sentosa, LTA
17	CPG	RT, UT, MT, PT and ET on various Piping and structural components for various civil construction projects	Gammon, Sentosa etc
18	Jurong Port	Eddy Current (ET/ECT) testing, MPI, UT on crane	Jurong Port
19	Tiong Woon	Eddy current testing on Crane structures	Tiong Woon, Singapore
20	Seadrill	UT, ECT, RVI on high critical profile joints in west Linus projects	Seadrill's West Linus Jack Up rig
21	Tetco	PAUT,TOFD on spherical tanks	Sudan ministry on petroleum
22	Rotary IMC-Jurong Island	RT, PT, MT, PMI, FN, Work of LRCCU	Shell, Bukom Island
23	Rotary IMC-Jurong Island	RT, PMI, FN, PT work of LRCCU shutdown	Shell, Bukom Island
24	Rotary IMC-Jurong Island	UT, RT, MT,PT ,PMI & work of Shell Bukom Refinery Modification (BRM)	Shell, Bukom Island

25	Rotary IMC-Jurong Island	RT,MT work on KURARAY	-
26	singapore methyl methacrylate pte ltd	Maintenance projects LRUT, ECT,PAUT,TOFD,UT,PMI,MT,PT,MFL,Scopion Crawler	SMAG Complex
27	NEX Global - Jurong Island	Shut down and Maintenance projects for shell Refinery IRIS, LRUT, ECT,PAUT,TOFD,UT,PMI,MT,PT	Sumitomo Chemicals/ Celanese
28	Sankyu - Pulau Ular	RT, MT & PMI work of ECC Shell for CBI- TOYO Joint venture	Shell, Bukom Island
29	OAKWELL ENGG PTE LTD	RT, PT, MT, PMI, FN, Work of Kipper Tuna Turrum, Koniambo Nickel, Platong Gas-II,BP Angola, MODEC	BP Angola
30	LAKSEL	5000 MPTA TD1 – RT Scot & Bugis Project-PT,MT,UT & RT	-
31	Keppel Shipyard - Benoi	UT, UTG, RT, MT,PT & PWHT work of DERRICK LAY BARGE (B-65590)	-
32	Keppel Shipyard - Tuas	RT,UT, UTG & PWHT Work of Skarv-Turret ,PEREGRINO,FPSO BW Pioneer,P-57,OKHA, Bully, FPSO ASENS,P-58,TGT FPSO,TGT SOFEC TURRET	-
33	Keppel Shipyard - Tuas	UT, Hull UTG, RT, MT,PT & PMI, Hardness Testing for FPSO Berantai	-
34	Keppel Shipyard - Tuas	UT, Hull UTG, RT, MT,PT & PMI, Hardness Testing of FPSO CIDADE De Paraty	-
35	Keppel Shipyard - Tuas	UT, Hull UTG, RT, MT,PT & PMI, Hardness Testing of FPSO CIDADE DE ANCHIETA	-
36	Keppel Shipyard - Tuas	UT, Hull UTG, RT, MT,PT & PMI, Hardness Testing of FPSO RUBICON - TURRET PROJECT	-
37	Keppel Shipyard - Tuas	UT, Hull UTG, RT, MT,PT & PMI, Hardness Testing of TAURUS -II	-
38	Mooreast	MT & PT Work of NG Anchor for DNV and Non DNV Projects	-
39	Ken Steel	UT & MT Work of KE-065-G003-CAJV Skid Beam	-
40	NOV	UT work Of B284, B330	Keppel Fels Ltd, Singapore
41	Clough	UT & MT Work of Java Constructor (Project No. 32-4893)	-
42	UMW	UT work of Modification of Goose Neck	-
43	Keppel Fels Ltd, Singapore	UTG work on R343 Key Gibraltar & Semi-Submersible Drilling Rig on Critical Nodes of the column, Hull and various rigs.UT / MT on various Jack up and semi-submersible rigs	-
44	VME	PAUT, PWHT,RT,MT,PT,UT, UTG in BW JOKOTOLE FPSO of BW offshore	BW Offshore
45	Sembawang Shipyard Ltd, Singapore	RT, UT, UTG of Hull & Piping, PT, MT, PMI, FN, PWHT Work of FPSO KAOMBO NORTH Project	SAIPEM / TOTAL
46	Sembawang Shipyard Ltd, Singapore	RT, UT, UTG of Hull & Piping, PT, MT, PMI, FN, PWHT Work of FPSO KAOMBO SUL Project	SAIPEM / TOTAL
47	Sembawang Shipyard Ltd, Singapore	RT, UT, UTG of Hull & Piping, PT, MT, PMI, FN, PWHT Work of FPSO GINA KROG Project	TEE KAY
48	Sembawang Shipyard Ltd, Singapore	RT, UT, UTG of Hull & Piping, PT, MT, PMI, FN, PWHT Work of FPSO Glas Dowr Project	BLUEWATER ENERGY SERVICES PTE LTD
49	ENEOS Ital Sing Pte Ltd, Singapore	LRUT on Production Gathering Line Piping	-
50	BW Offshore.	PAUT,MT,PT,UT,RT ,RVI & Heat Treatment	BW Offshore
51	Cameron	MT,PT	Singapore
52	IEG singapore	RT, UT, MT, PT, VI, Lifting Equipment inspection	GE Oil & Gas Singapore,

53	GE Oil & Gas, Singapore	RT, UT, MT, PT, ECT, VI, Lifting Equipment inspection	GE Oil & Gas Singapore, Ensco, Bumi Armada, Aker Solutions, FMC
54	Sub Sea services Pte Ltd, Singapore	RT, UT, UTG, MT, PT	GE Oil & Gas, Singapore
55	Advance Marine, Singapore	UT, MT, ET	Advanced Marine, Singapore
56	Aker Solutions, Singapore	UT, MT, ET	Aker Solutions, Singapore
57	Keppel FELS Ltd, Singapore	UTG on Semi-Submersible drilling Rig on Critical Nodes of the column, Hull for different rigs	-
58	Emerson Process Management Systems, Singapore	NDT on Gas metering Skid and other skids	Myanmar and other country
59	Siemens, Singapore	NDT on Water treatment skids	Myanmar and other country
60	confidential	Thermography on Dredging Vessels	Indonesia Offshore and Singapore offshore
61	confidential	Thermography on Hotels for Maintenance inspection	Singapore
62	confidential	Load Testing and Eddy current testing	Singapore
63	Petronas Fertilizer Plant, Malaysia	Vibration Analysis, Ultrasonic Pulse Velocity Measurement, Crack mapping, Verticality Survey	Malaysia
64	Munsiong Engineering	RT, UT, MT, PMI, HT, Heat treatment	Singapore
65	PEC Ltd	PAUT, TOFD, RT, UT, MT, PMI, HT, Heat treatment	Singapore
66	Shell Seraya Chemicals Pte Ltd	Tube Inspection Services	Singapore
67	MMHE Shipyard Malaysia	Underwater ET services	Malaysia
68	Hertel	UT, RT, MT & PT services	Singapore
69	Faci Asia Pacific	Hydro testing, UT, RT, MT services	Singapore
70	Keppel Shipyard – Tuas & Benoi	Ichthys turret- UT, MT, PT & PMI, Hardness Testing	INPEX & SBM
71	Keppel Shipyard – Tuas & Benoi	Stones FPSO- UT, MT, PT & PMI, Hardness Testing	Shell & SBM
72	Keppel Shipyard – Tuas & Benoi	Golar FLNG- UT, MT, PT & PMI, Hardness Testing	Golar LNG
73	Falcor	NDT (RT, UT, MT, PT, PMI, Ferrite) on Process piping - EPC OF SMALL SCALE LNG LOADING FACILITY AT SECONDARY BERTH	SLNG / JGC

Key Personnel

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