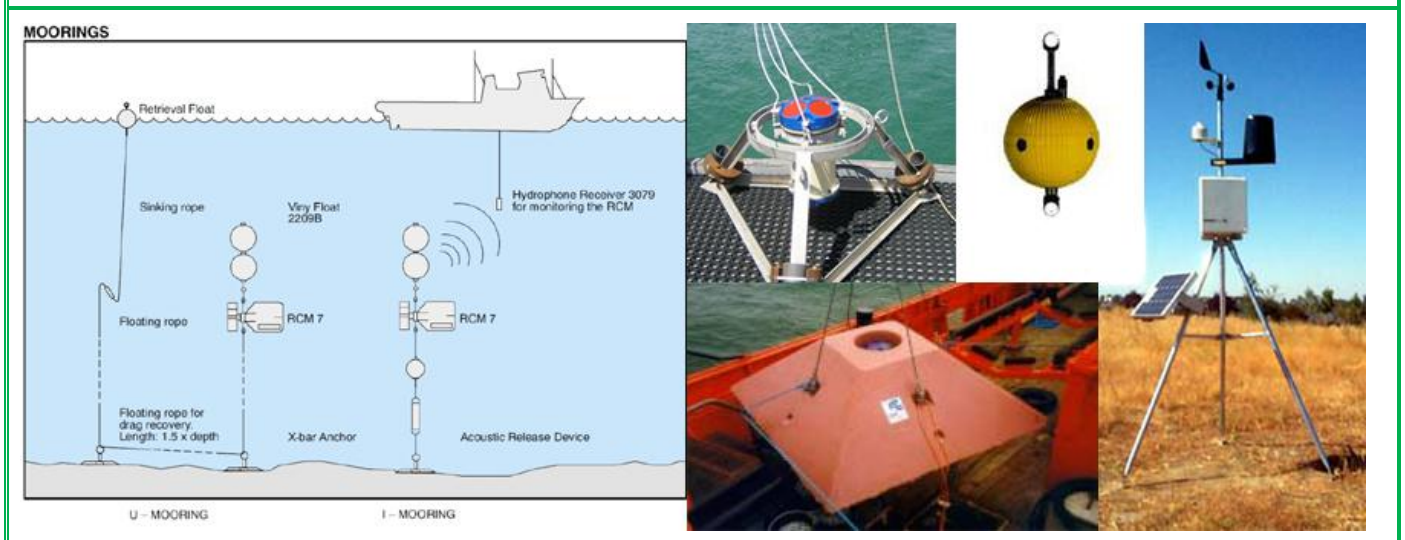
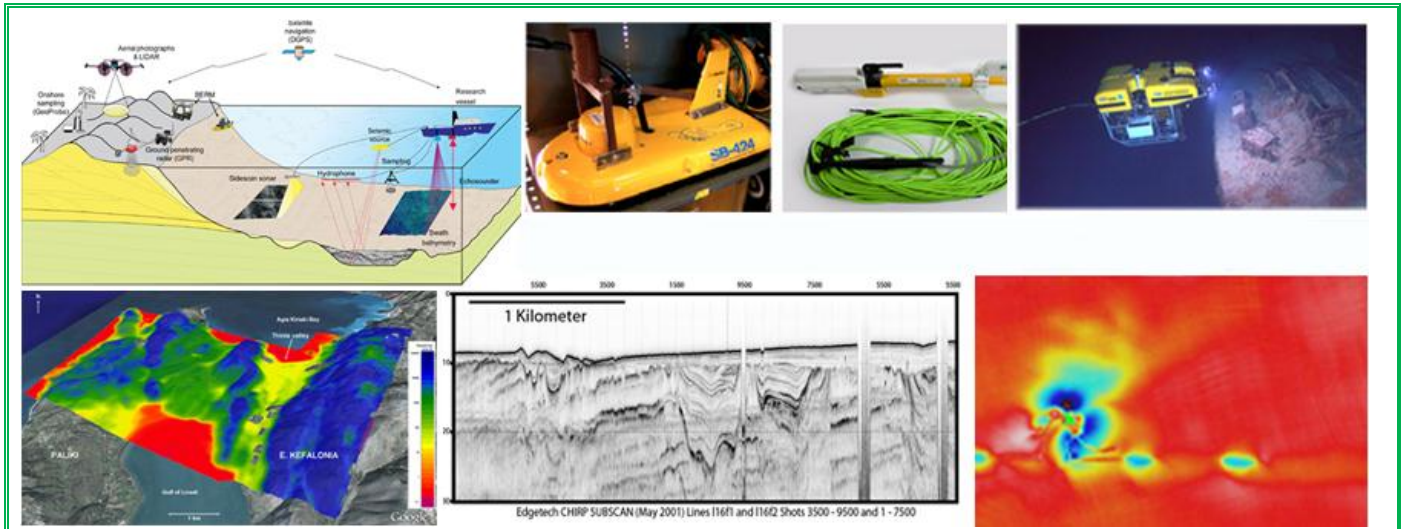


# GEOSENSE SURVEYS

## Marine Survey Services



*Interpreting Acoustics Sensibly*

# GEONSENSE SURVEYS



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## 1.0 INTRODUCTION

**Geosense Surveys** is newly formed organization by a team of experienced personnel having extensive knowledge in the fields of geodesy, hydrography, geophysics, oceanography, meteorology and geotechnics.

**Geosense Surveys**, with its small but rapidly growing young energetic team, is an alternative service provider to our privileged clientele ranging from small to large scale establishments connected to ports and harbours, oil & gas, marine construction, dredging and other engineering establishments.

Geosense Surveys have proficiency in carrying out various services connected to Surveying, Technical Consultancy, Geodata Processing and offer Technical Manpower expertise.

The Directors of **Geosense Surveys** over a long period of time have envisaged establishing themselves as premier survey and data processing organization related to Earth Sciences.

Over a period, Geosense Surveys will stand against the test of time to fulfil its commitments to the society at large.

Our tag line "**Interpreting Acoustics Sensibly**" is aimed to realize, understand and interpret the complicated relationship of 'Acoustics' with that of the 'Earth'.

### **QHSE Policy**

All our company operational standards meet or exceed local work place health, safety and environmental quality requirements. We will strive to see that our activities in promoting business will have smallest possible eco-foot print.

Geosense Surveys at all times will ensure that we have the most competent employees onboard and in our office and prior to getting engaged in offshore activities all our survey personnel will undergo mandatory Offshore Survival and Safety Training Courses.

### **Benefits with Geosense**

Highest attainable quality  
Transparency in work execution  
Post execution support  
Lowest possible cost  
Client satisfaction  
Sustainable growth  
And ..... 'ever lasting relationship based on trust'

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**Our Vision**

***"To Propagate our Perception earned from the field of 'Earth Science' for a Harmonious Universe"***

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## 2.0 SURVEY & TECHNICAL CONSULTANCY SERVICES

### 2.1 Positioning Services

Positioning is the most important task in the field of surveying provides an answer to the question; where on earth am I?

There are many instruments available for carrying out positioning, ranging from the old archaic equipment like sextants, theodolites, auto levels etc., to the most modern and latest equipment like total stations, laser scanners and GPS systems.

The level of accuracies of positioning depends upon the objective of the survey and as such, the accuracy levels may vary from few centimeters to few hundreds of meters. For example, surveying and positioning for placement of bridge pier needs accuracy within centimeters; where in a reconnaissance survey for geological mapping, the accuracy needed could be up to few hundreds of meters. Standard Error of Mean can be computed at all instances of time to get the gross error for a particular survey or position to determine the level of accuracy.

Underwater acoustic positioning finds its application in many underwater marine works such as salvage, in oil & gas fields, marine archaeology, tracking of side scan sonar tow fish.

Underwater positioning is more complicated since sound waves do not follow a straight path. Deflection occurs when the sound passes through different thermoclines in the sea. Thermoclines are a result of differences in temperature and salinity. The velocity of sound varies accordingly to these factors, and shadow zones can occur. Therefore it is absolutely imperative to know the variation in the speed of sound throughout the water column for higher positional accuracies. Another problem with sound in water is noise generated from the vessel itself and surrounding objects which can be minimized by meticulous planning.

Different principle of measurements and calculations like Long Base Line (LBL), Ultra Short Baseline (USBL), Short Base Line (SBL), Multi-User Long Base Line System (MULBL) are used for hydro-acoustic tracking.

With different order of accuracies involved (first-order, second-order, third-order and fourth order) in horizontal and vertical controls, we at Geosense Surveys understand the needs of our clients requirements and accordingly plan and execute such services successfully.

Some of the common work areas where positioning services needed:

1. Pipelay activities
2. Breakwater construction
3. Vessel Berthing in Ports
4. Rig Movement & Positioning
5. Maintenance Services for Ports & Harbours

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## 2.2 Hydrography & Topography

### Hydrographic surveys

Hydrographic Surveys are conducted for obtaining information on water depth in Ports, Anchorages, Rivers, Inland-water ways, Dams, Reservoirs etc, and is required for Navigation, project-cum-engineering, irrigation, tidal power, tourism, inland water ways, pre-dredging, progressive and post-dredging, Siltation, erosion, pollution, flood control etc.

The data gathered is used to make informed decisions of several types: for example vessel navigation decisions; resource management decisions; resource development decisions; marine infrastructure decisions; marine construction decisions; coastal development decisions; tactical and strategic military decisions and environmental management decisions.

Though single beam surveys are more popular and are a de facto in hydrographic industry, constant improvements in hardware, software, computing power and cost effectiveness are making multi-beam surveys more popular. In comparison to the conventional single beam surveys, multi-beam surveys map the seabed faster and with greater precision and resolution.

The IHO Standards S44 4th Edition classifies surveys into four different types (four 'intended uses') as detailed below:

Special Order hydrographic surveys cover areas where ships may need to navigate with minimum under keel clearance and where the bottom characteristics are potentially hazardous to vessels such as boulders or rock outcroppings. This Order survey requires higher accuracies than those previously specified and for that reason has been particularly controversial. Special Order surveys are only applicable to those areas specifically designated by the Member State's agency responsible for the survey quality. Inherent in the requirements are closely spaced survey lines with side-scan sonar, multi-transducer arrays or multi-beam echo sounder arrays to obtain "100% bottom search". This term was adopted after numerous discussions on the impreciseness of the previously proposed term "100% ensonification".

#### Order 1a

This order is intended for those areas where the sea is sufficiently shallow to allow natural or man-made features on the seabed to be a concern to the type of surface shipping expected to transit the area but where the under-keel clearance is less critical than for Special Order above. Because man-made or natural features may exist that are of concern to surface shipping, a full sea floor search is required, however the size of the feature to be detected is larger than for Special Order. Under-keel clearance becomes less critical as depth increases so the size of the feature to be detected by the full sea

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floor search is increased in areas where the water depth is greater than 40 metres. Order 1a surveys may be limited to water shallower than 100 metres

## Order 1b

This order is intended for areas shallower than 100 metres where a general depiction of the seabed is considered adequate for the type of surface shipping expected to transit the area. A full sea floor search is not required which means some features may be missed although the maximum permissible line spacing will limit the size of the features that are likely to remain undetected. This order of survey is only recommended where under-keel clearance is not considered to be an issue. An example would be an area where the seabed characteristics are such that the likelihood of there being a man-made or natural feature on the sea floor that will endanger the type of surface vessel expected to navigate the area is low.

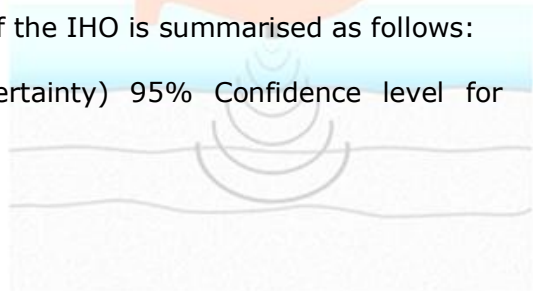
## Order 2

This is the least stringent order and is intended for those areas where the depth of water is such that a general depiction of the seabed is considered adequate. A full sea floor search is not required. It is recommended that Order 2 surveys are limited to areas deeper than 100 metres as once the water depth exceeds 100 metres the existence of man-made or natural features that are large enough to impact on surface navigation and yet still remain undetected by an Order 2 survey is considered to be unlikely.

The vertical and horizontal accuracy requirement of the IHO is summarised as follows:

Maximum allowable THU (Total Horizontal Uncertainty) 95% Confidence level for different orders:

- 2 meters for Special Order
- 5 meters + 5% of depth for Order 1a
- 5 meters + 5% of depth for Order 1b
- 20 meters + 10% of depth for Order 2



Maximum allowable TVU (Total Vertical Uncertainty) 95% Confidence level for different orders:

- a = 0.25 meters b = 0.0075 meters for Special Order
- a = 0.50 meters b = 0.0013 meters for Order 1a
- a = 0.50 meters b = 0.0013 meters for Order 1B
- a = 1.00 meters b = 0.0023 meters for Order 2

**a** represents that portion of the uncertainty that does not vary with depth.

**b** is a coefficient which represents that portion of the uncertainty that varies with depth.

Availability of accurate tidal data is very important for generation of precise bathymetric data. Sometimes, tidal information is not always readily available due to non-availability

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of benchmarks at desired survey locations. Thus, there is a need to use information generated from predicted tides to reduce the raw bathymetric data which is always not agreeable. To counteract this problem, a temporary bench mark is established by different land survey instruments. This operation is time consuming and sometimes delays the survey works.

We at Geosense Surveys with its commitment to give high quality service to its clients have adopted the above standards for executing their hydrographic survey assignments.

## Topographic Surveys

Topographic surveys are performed to determine planimetric location and/or elevation of surface or subsurface features, facilities, utilities and mapping of existing structures along with levels in particular area. Sometimes control points have to be established in the vicinity of the survey area using locally available benchmark details.

Cadastral survey is one branch of topographic survey which not only requires demarcating existing land boundaries in term of its true geographic location, but also the data on ownership in succession and the present true value of the land. Cadastral surveys are useful for updating land records, and sometimes for compensation settlement, in case the land is acquired for developmental purposes. Based on the field conditions topographic surveys can be properly planned for to provide maximum information and coverage of the area within the least possible time.

Existing structures at the survey site such as building, breakwaters, embankments etc can be coded accordingly wherever necessary to avoid any ambiguity while preparing survey charts at later stages.

There are many instruments available for carrying out topographic surveys ranging from the old archaic equipment like theodolites, auto levels, and dumpy levels to the most modern and latest equipment like total stations, laser scanners and GPS systems.

Some of the common work areas where hydrographic & topographic services needed:

- ◆ Pre and post dredging surveys in harbours and ports.
- ◆ Support surveys for seawall construction and jetty construction.
- ◆ Support surveys for container terminal, and berths.
- ◆ Support surveys for bridge construction across rivers.

## 2.3 Marine Geophysics

### Geophysical Services:

Geophysical Surveys play a key role in any development activities and are almost invariably used as a tool for investigation prior to commencement of any major engineering work.

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Sometimes geophysical surveys are supported by ground truthing such as Geotechnical Investigations which involves drilling of borehole giving an insight into the underlying strata. At times, an integrated approach combining geophysical and geotechnical investigations may be the best solution for arriving at the desired results.

Geophysical Surveys for a particular project can be carried out at various stages of activities beginning from initial planning of a project till the completion of engineering/exploration activities.

Various geophysical methods such as electrical, electro-magnetic, gravity, magnetic, magneto-telluric, seismic are being currently used for mapping subsurface geology. Each of the above methods is aimed for fulfilling different objectives.

Out of the above methods, seismic methods are the most widely used of all the geophysical methods in mainly geological surveys, mineral exploration, various engineering activities and petroleum exploration activities. The main advantage is that it provides the most accurate rendition of the geometry of subsurface layers.

In marine applications, often seismic surveys are combined with other surveys such as bathymetric, side scan sonar and magnetometer surveys to get complete information of the seabed and sub-seabed in the area of interest.

## **Marine Seismic Surveys**

### **Marine Reflection Surveys**

Acoustic (pressure pulse), which transmits sound energy in the form of a short pulse towards the seabed. This sound energy is reflected from the seabed and the subsequent layers of soil. The reflected energy intensity depends on the different densities of the seabed, the denser (harder) the seabed, the stronger the reflected signal. The reflected signal travels back through the water to a surface towed hydrophone (an underwater).

### **The sequence is described thus:-**

A transmission pulse from the boomer travels through the water at the same time as recording sequence is started. As the signals travel in time to the seabed and subsequent layers of soil and returns, the synchronized record displays a line of signal on a paper or digital recorder. The line contains signals proportional in intensity (darkness) to the strength of the reflected data. Another transmission pulse starts the sequence again to produce another line on the record. This sequence continues several times per second as the equipment is towed over the seabed, resulting in a record showing cross section through the seabed.

Caution needs to be exercised while interpreting seismic records. The following is just a brief guide for carrying out seismic interpretation judiciously.

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1. Challenges come from acquisition and interpretation of the seismic reflection data from the shallow marine environment including the masking, attenuation, delay, and scattering of seismic energy by various kinds of environmental noise, entrained gas, and coarse lithologies.
2. The seismic records show layer thickness as a function of time, thus the true thickness may only be determined if the speed of sound through the material is known. Accurate sound wave velocity data are seldom available, therefore layer thicknesses must be considered approximate.
3. The reflecting surface does not always represent a change in the sediment type, but may only be a change in the physical character of the soil such as grain size, porosity, density, or hardness.
4. At greater water depths, the area of sea floor receiving sound increases. Thus, records in deep water will tend to show average conditions over an area rather than a specific profile directly below the ship.
5. Interpretation can also be difficult where submerged objects, out-of-line obstructions, and seismic multiples complicate the seismic records. Entrained gas can produce bright reflectivity in otherwise unreflective horizons, and because of its very slow seismic velocity, delays the arrival of other reflected energy.

Deconvolution, band pass filtering, f-k filtering, NMO, DMO, stacking are also applied to the data and serve as an aid to interpretation.

## Marine Refraction Surveys

The principle difference between the geometry of refraction and that of the reflection methods is in the interaction that takes place between the seismic waves and the lithological boundaries they encounter in the course of their propagation. In refraction work, the energy arrives at the receiver after travelling through the rock layers; whereas in reflection work, the energy is received after it has reflected from the subsurface layers.

Interpretation of refraction is normally done on the initial arrival of seismic energy (first break picking). Seismic Profiles are generated with compression wave velocity information; and assumptions based on relationships between measured velocities and lithologies according to experience, and to project data available at processing and reporting phase of the survey.

## Side Scan Sonar Surveys

Side scan sonar; also referred to as side scan sonar, side-imaging sonar, and side-looking sonar; is often towed from a survey vessel and has the ability to capture hundreds of meters of seafloor on each side of the moving vessel. The near photographic quality images produced by side scan sonar along with its ability to map

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large areas of seafloor quickly make it an essential piece of kit for anyone requiring high definition images of the seabed.

Side scan sonars transmit a narrow fan-shaped acoustic pulse (ping) perpendicular to its direction of travel. As the acoustic pulse travels outward from the side scan sonar, the seabed and other objects reflect some of the sound energy back in the direction of the sonar (known as backscatter). The travel time of the returned pulse is recorded together with its amplitude as a time series and sent to a topside console for interpretation and display. The topside console stitches together data from successive pulses, creating a long continuous image of the seafloor as the side scan sonar is towed from a survey vessel.

Interpretation of side scan sonar data develops with experience. Side scan sonar reflections of isolated small objects give no indication of shape or attitude. Man made structures, such as platforms or rock walls tend to have regular patterns that are easier to identify. Increasing the scan range of the sonar severely limits the resolution in the far field of the acquired data and as a consequence interpretation becomes difficult.

## Magnetic Surveys

Magnetic surveys are carried out on land as well as marine environment and measure variations in the earth's magnetic field. The magnetic field observed by a magnetometer is a local disturbance is termed as 'anomaly' Magnetic field and is generally expressed in 'gammas'. The observed anomaly expresses only the net effect of the induced and remnant magnetizations which usually have different directions and intensities of magnetization.

Magnetometer surveys are well suited for the detection and mapping of all sizes of ferrous objects. This includes anchors, chains, cables, pipelines, ballast stone and other scattered shipwreck debris, munitions of all sizes, aircraft, engines and any other object with magnetic expression

Interpretation of magnetometer can be quantitative as well as qualitative. The raw magnetometer data have to be reduced for the anomalies by applying corrections for earth normal magnetic field, diurnal variations, regional -residual separation , upward continuation etc. The identified anomalies have to be interpreted for the causative sources.

We at Geosense Surveys professionally understand our client's requirement by giving the best possible geo-approach to suite his specific needs.

Some of the common work areas where geophysical services needed:

- Sand/Cap Rock surveys for land reclamation/beach replenishment
- Prefeasibility for Port& Harbours/Power Plants/ Desalination Plants
- Post dredging /channel access survey
- Seabed/Pre-engineering Surveys for pipelines/jetty constructions/bridge construction

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- Prelay/Pre Construction Surveys for offshore establishments
- Anchor Clearance Surveys for offshore establishments
- Debris/Salvage Surveys for lost objects at sea such as dredge cutter, anchor chains, ship wrecks, rudders, and pipelines.

## 2.4 Meteorology & Oceanography

Meteorology & Oceanography Studies play an important role for any pre-engineering activities, marine EIA studies and hazard mitigations such as tsunamis, cyclones, navigation and planning for coastal management schemes.

Meteorological data constitute measurement of various parameters such as Temperature, Humidity, Wind speed, Air Quality, Sun Radiation, UV Index, Lightening, Rain fall, Snow fall etc.

Oceanographic data constitute measurement of waves and currents and is need for hydrodynamics modelling for any marine engineering work. Ocean waves can be recorded by wave rider buoys

Waves can be broadly classified as wind waves and swells. Wind waves, also known as sea swells, are those which are under the influence of wind in a generating area. In general, wind waves are highly irregular in appearance and tend to be short-crested. Swells, on the other hand, are wind-generated waves that have travelled out of the region of their generating area. Outside the generating area, no energy is supplied from the wind, and therefore swells gradually decay due to various energy dissipating and transformation processes, but their periods are elongated during propagation. Swells have regular, long crest appearance, and are less steep than wind waves. A sea state may consist of just wind waves or just swells or may be a combination of both.

The most common approach to describe the wave parameters are significant wave height ( $H_s$ ), Maximum recorded wave height ( $H_{max}$ ), significant wave period ( $T_s$ ), peak wave period ( $T_p$ ) and mean wave period ( $T_z$ ). This approach to describe the wave in a natural sea state is called wave train method

Another approach to describe the wave by spectral method is by distribution of wave energy with respect to the frequency and direction. This is done by converting time series of the wave record into a form of energy spectral density function, which is called the directional wave spectrum. The most common parameters determined from spectral method are wave height spectrum ( $H_{m0}$ ), mean wave direction ( $\mu_{mean}$ ), peak wave direction ( $\mu_{peak}$ ), and directional spectrum and times series.

Ocean currents can similarly recorded by current meters deployed on the seabed by a mooring frame with different using various mooring methods like "I" and "U" type. Some current meters also record sampling time and date, seabed depth, temperatures, along with speed and direction of the currents.

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Doppler Current Meters can record current speeds and corresponding directions over the entire depth at a particular deployed location. The recorded data is stored in built-in data storage unit.

Currents can also be recorded by installing the current meter on a moving platform such as a survey vessel. Such arrangement facilitates access to the current speeds in a wider area rather than at one particular location of deployment.

Meteorological and Oceanographic data can also be transmitted by a radio link (telemetry) and the data can be monitored from a remote work station.

We at Geosense Surveys gather, analyse the lacunae, and establish definitive relationship from various Meteorological and Oceanographic data to give optimum and most meaningful solutions to our client.

Some of the common work areas where Meteorology and Oceanographic services are needed:

- Coastal Protection and Engineering
- Port Design and Operation
- Environmental Monitoring
- Oil industry (oil platforms, LNG terminals, etc.)
- Shipping Safety

## 3.0 GEODATA PROCESSING & REPORTING SERVICES

Geosense Surveys offers Geodata Processing services in positioning, bathymetry, topography, marine geophysical, meteorology and oceanography to organizations associated with ranging onshore, near shore and offshore engineering activities. The most common of them are for harbours and ports, dredging, and as oil & gas. We have set our bench mark to world industry standards of UKOOA, IHO, and SEG in the respective areas of specialization.

Our QA/QC procedures enable us to stringently monitor data processing at all stages resulting in producing accurate and desired results.

### 3.1 Positioning Services

We provide seamless integration of geodetic data collected from GPS, total stations, auto levels to provide a reliable solution for bench mark transfers, RTK net adjustments & establishing survey net to fulfill first order survey requirements

A wide range of software can be utilized for a generating unique and client required solutions.

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## 3.2 Hydrography & Topography

### Hydrography

Data collected from Single Beam and Multi Beam Echo Sounders (Swath Systems) Echo Sounders will be despiked (cleaned), reduced for tidal variations, contoured and charted using dedicated software and standard CAD packages

Complex volume calculations involving alignment planning, design templates of roads, breakwaters, navigation channels can be precisely quantified by accurate DTM generation.

### Topography

Data collected from various survey equipment from the field; such scribes from field books, total stations, auto levels, laser scanner can be integrated to generate cartographic maps.

Charts can be prepared using CAD/GIS software and other mapping and plotting software. Plotting of charts can be done on various scales in mono-colour or multi-colour as per the requirement.

## 3.3 Marine Geophysics

Geophysical data from a wide range of acoustic sensors can be interpreted and integrated to accurately interpret marine surficial and sub-surface stratigraphy for engineering /exploration activities.

From seabed investigations to search and salvage, operations, from pipe lay operations to pre-engineering activities, side scan sonar, and shallow seismic and magnetometer data can be effectively processed, interpreted and integrated to produce desired results.

Sector scan sonar data with USBL tracking can be effectively used to track the pipelines and risers near the platforms where side scan sonars do not have accessibility. The sector scan sonar information together with side scan sonar maps the complete route of the pipeline.

Remotely Operated Vehicle (ROV) data acquired for pipeline surveys online from various sensors like video cameras, dual head sector scanners and altitude and bathymetric sensors can be archived and detail post processing, eventing and charting can be done using dedicated state of art software. Reporting on seabed condition, location of debris, pipeline spans and touch down points can be accurately mapped.

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## 3.4 Meteorology & Oceanography

Meteorological and Oceanographic data is useful as design inputs for various offshore and near shore marine projects.

Wave, Current and Tidal data can be processed and presented combining scalar and vector data.

Data from Current Meters can be presented graphically as line- charts, wind -rose, polar-plot and occurrence charts to suite individual requirements.

Data from Wave recorders can be processed for significant wave height (Hs), maximum recorded wave height (Hmax), significant wave period (Ts), peak wave period (Tp) and mean wave period (Tz) by wave train method. Wave height spectrum (Hm0), mean wave direction (mmean), peak wave direction (mpeak), directional spectrum and times series can be derived from spectral methods.

### Geodata Processing & Reporting Services for:

Our Standard approach towards Geodata Processing and reporting services as described as follows;

#### General

#### Preparation of methodology as per the scope of the work

We will prepare the methodology based on the scope and objective of the work and field of interest separately.

- Hydrographic survey with single beam Echo sounder/
- Multi-beam and Swath bathymetry Echo sounder.
- Hydrographic surveys for pre and post dredging.
- Hydrographic and oceanographic investigations
- Marine Geophysical survey
- As built and as laid surveys for laying of pipeline in oil & gas sectors
- Pre-feasibility studies for new ports & harbours
- Oceanographic surveys which involves waves, currents, tides, and winds

#### Taking over the data from the client

The collected raw data on CD/DVD with necessary log books will be taken over from the client in the software friendly format or otherwise necessary conversion software.

Usually raw data's will be in following formats

Hydrographic data in: .raw, .log, .hsx etc.,formats

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Geophysical data in: .segY, .sgy, .cod, .xtf, .jsf, .880 etc.,formats

Oceanographic data in: .dsu, .dat, ASCII etc.,formats

Meteorological data in: GRIB etc., formats

## **Processing, Interpretation and Reporting**

Data processing, interpretation and reporting will be done with our experts here in order to solve your requirement in time.

The following are the few types of software used to process and interpret data.

### **Positioning**

Positional data from various equipment as NMEA0183 format from GPS, ASCII data from total station, various forms of hydro acoustic data from underwater tracking devices can be integrated, processed and imported into standard geo software like Surfer, Terra model and the results can be plotted in standard CAD software.

### **Hydrographic and Topographic**

Single beam Bathymetry data will be processed by using Hypack Max or Hydro pro software by applying necessary water level (tidal) corrections to the chart datum, calibration offsets, draft, etc.

Multi-beam bathymetry data will processed by using Hypack Hysweep software by applying water level (tidal) corrections to the chart datum. Before proceeding, calibration parameters such as heave, pitch, roll and tide graphs will be checked.

Before applying, tidal corrections, manual tides graph will be checked with predicted tide at that location and necessary corrections for horizontal and vertical control will be applied.

Complex volume calculations involving alignment planning, design templates of roads, breakwaters, navigation channels can be quantified precisely by accurate DTM generation. Volume calculations will be done by using Hypack volume calculations methods, Terramodel, ArcGIS, and Tin modelling and correlated one another to get more accurate quantities as client required.

### **Marine Geophysical**

Sub bottom profiler data will be processed by using Coda on Geokit module software by applying tvg, tvf, bottom tracking, etc., methods to get good qualitative data visualization and differentiation for horizons and acoustic basement.

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Side scan sonar data will be processed by using Coda on Geokit module software for the feature identification and Coda on Mosaic to overview the entire covered area with overlaid features.

Marine magnetometer data will be processed by using Maglog software. Magnetic anomalies will be calculated by regional and residual anomaly separation.

## **Meteorological & Oceanographic**

Meteorological and Oceanographic data can be presented as inputs for a number of engineering and planning activities. Data can be presented in standard wind rose diagrams, spread sheets, polar plots and occurrence charts for visualization and assessment.

Tide, Current and Wave measurement data will be processed by using relevant software and graphs will be plotted.

## **Report Preparation**

The exported data from the processed and interpreted output will be plotted cad drawings by using Surfer, Autocad, ArcGIS, Terramodel, etc., According to obtain results, the detailed draft report will be prepared based on the prepared chart results and stressing the scope of the work as required by the client.

## **Deliverables**

The necessary soft copies on CD of processed data will be delivered along with draft report. The hardcopies of data will be delivered along with the above if the client required. The hard copy printout of raw data for sub bottom profiler and Side scan sonar will be delivered by using EPC thermal.

## **Clarifications and comments from the clients**

The clients send clarifications and comments will be worked out and if results were not good once again process the data and prepare and submit the final report.

## **Maintaining the confidentiality of data**

Geosense will maintain highest standards of confidentiality at all times while dealing with clients. Under any circumstances Geosense will not divulge regarding its processing activity to the third party.

## **Data Archival/Retrieval**

If the client insists, we at Geosense Surveys will index and archive the data in a systematic manner for a period of one year from the data of completion of project,

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# GEOSENSE SURVEYS



without any additional charges. If no request is received by the client, we will delete the same from our systems and servers permanently.

## 4.0 TECHNICAL MAN POWER SERVICES

We have with us technical qualified; competent personnel with proven track record. Each of our personnel has vast experience in their respective fields.

We offer technically qualified personnel for the following services:

**Positioning Services**  
**Hydrography & Topography**  
**Marine Geophysics**  
**Meteorology & Oceanography**

All our technical personnel are backed up with complete round the clock support from our Base Office at Visakhapatnam. This kind of support enhances the confidence which in turn enhances their efficacy in assignments.

## 5.0 SUPPORT SERVICES

### **Positioning :**

- ◆ Pipelay activities
- ◆ Breakwater construction
- ◆ Vessel Berthing in Ports
- ◆ Rig Movement & Positioning
- ◆ Maintenance Services for Ports & Harbours

### **Hydrographic & Topographic :**

- ◆ Pre and post dredging surveys in harbours and ports
- ◆ Support surveys for seawall construction and jetty construction
- ◆ Support surveys for container terminal, and berths
- ◆ Support surveys for bridge construction across rivers

### **Marine Geophysical:**

- ◆ Sand/Cap Rock surveys for land reclamation/beach replenishment
- ◆ Prefeasibility for Port& Harbours/Power Plants/ Desalination Plants
- ◆ Post dredging /channel access survey
- ◆ Seabed/Pre-engineering Surveys for pipelines/jetty constructions/bridge construction
- ◆ Prelay/Pre Construction Surveys for offshore establishments
- ◆ Anchor Clearance Surveys for offshore establishments
- ◆ Debris/Salvage Surveys for lost objects at sea such as dredge cutter, anchor chains, ship wrecks, rudders, and pipelines

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## **Meteorological & Oceanographic**

- ◆ Coastal Protection and Engineering
- ◆ Port Design and Operation
- ◆ Environmental Monitoring
- ◆ Oil industry (oil platforms, LNG terminals, etc.)
- ◆ Shipping Safety

## **6.0 MANAGING PARTNERS**

### **Bharat Kumar K.V.S – M.Sc (Tech) Geophysics , Pre-Ph.D**

Managing Director/Geophysicist

22 years' experience in the fields of research, hydrographical and geophysical surveys, surveying and civil engineering

### **Appa Rao V.V , M,Sc (Marine Geophysics)**

Executive Director/Geophysicist

12 years' experience in the fields of hydrographical, geophysical surveys, surveying, and oceanography

*Interpreting Acoustics Sensibly*

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## 7.0 PROJECTS

### 2017

1. Hiring of Personnel and Equipment for conducting Pre dredge bathymetric Surveys at NRW area near old fire station area at Kakinada Deep Water Port, Kakinada for Kakinada Seaports Limited, Hyderabad, India.
2. Bathymetric Survey of Plunge Pool and Reservoir at Koldam Hydropower Project in Bilaspur Dist, Himachal Pradesh, India
3. Bathymetric Survey of Anchorage Port Channel of Kakinada at Kakinada Deep water port, Kakinada for GMR Energy Limited, Hyderabad.
4. Bathymetry, Topographic and Geophysical Survey for SCP&MIP Tranche-2 Udyavara Shoreline protection Management project, Udyavara, Karnataka for Geometry, Hyderabad.
5. Side scan sonar Data processing services for Nakati Creek area for New Horizon Surveys, Mumbai, India.
6. Hiring of Personnel and Equipment for Ocean Sparkle Limited, Hyderabad for conducting interim bathymetric Survey at 6th & 7th berth & fishing channel area at Kakinada Deep Water Port, Kakinada.
7. Processing and reporting services for Current Meter and wave data for Oceanographic Observations for Jawaharlal Nehru Port Trust, Off Dahanu, Palghar Dist., Maharashtra for SeaGeo Surveys, Mumbai
8. Bathymetric Survey for maintenance dredging at Main Channel from fairway buoy to berth and Main Berth, 4th, 5th, OSV Jetties & Channel, NRW Extension Jetties, Channel and extended outer channel areas at Kakinada Deep Water Port, Kakinada for Kakinada Seaports Limited, Hyderabad.
9. Hiring of Personnel and equipment for conducting bathymetry surveys at Aminabad, Uppada, Kakinada for Ocean Sparkle Limited, Hyderabad.
10. Positioning support services using dGPS at Kesinapalli, Antervedi, East Godavari for Dophin Diving services, Visakhapatnam.

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## **2016**

1. Processing of ADCP and Tidal Data at Hawar Island, Oman for National Marine Services for Tidal Meteorological Projects, Oman.
2. Positioning services using dGPS at Nakkapalli for Krishi Engineers, Visakhapatnam.
3. Positioning services using dGPS at Elamanchili for Krishi Engineers, Visakhapatnam.
4. Hiring of Personnel for conducting MBES Survey at Pipav Port, Gujarat for Zenith Surveys, Mumbai.
5. Bathymetric and topographic Surveys at Odalarevu, East Godavari for Pre-feasibility studies for construction of protection with Breakwaters for WAPCOS on behalf of ONGC for Geometry, Hyderabad.
6. Bathymetric Survey for relocation of Intake pipeline Suken Ship Area, Visakhapatnam for Geocons India, Visakhapatnam.
7. Hiring of Personnel for Geophysical (Magnetometer Survey) at Al Zour for shipwreck debris identification & Data Processing services for High Seas General Trading Co. WLL, Kuwait.
8. Processing and reporting services for SBP data for Sumed Project, Egypt for Seapro, Egypt.
9. Preparation of Geoprofiles and Borelogs for Al Hidd LNG Terminal Project, Bahrain for Al Hoty, Bahrain.
10. Bathymetric Survey of Vizag General Cargo Berth (VGCB) for Vizag General Cargo Berth Pvt. Ltd (Vedanta) at outer harbour Visakhapatnam
11. Post-dredge Bathymetric Surveys at Srisailem Reservoir for Telangana Genco for Hanumanthu Ramu Contractors, Tarnaka Hyderabad.
12. Processing and reporting services of Met-Ocean (Weather station) Data at Al Jubail, Bahrain for Geophysical services limited, Bahrain.
13. Processing of SSS Data for Artificial Lake at Burj Khalifa, Dubai UAE for Capital Surveys, Abudhabi, UAE.
14. Processing and reporting services of SBP data and correlation of geotechnical borehole information for LNG Terminal for Seapro, Kuwait.
15. Positioning services using dGPS at Duvvada for Krishi Engineers, Visakhapatnam.
16. Positioning services using dGPS at NAD Kotha Road for Visakha Propertyes, Visakhapatnam.

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17. Processing and reporting services for Waves, Current and Weather Station Data for Crown Prince Court for Capital Surveys, Abudhabi, UAE.
18. Pre-dredge Bathymetric Surveys at Srisailam Reservoir for Telangana Genco for Hanumanthu Ramu Contractors, Tarnaka Hyderabad.
19. Processing and reporting services for Current Meter and Tide Gauge Data at Dar Al Handasah for Capital Surveys, Abudhabi, UAE.
20. Data Processing and reporting services of SBP data and correlation of geotechnical borehole information for Al Zour, Kuwait for Seapro, Kuwait.
21. Interim-04 Bathymetry surveys at Ambedkar Dock Basin area, Chennai at Chennai Port Trust for ASR Dredging Services, Cochin, Kerala.
22. Met-Oceanographic data (ADCP, Single point current meter, Midas CTD, ATG & Manual tide) processing services for Al Jubail island for Geophysical surveys limited, Bahrain.
23. Hiring of geophysicist for conducting geophysical survey to detect power cable at BPCL site location off Navi Mumbai for New Horizon Surveys, Mumbai.
24. Processing and reporting services for geophysical survey data of BPCL project for New Horizon Surveys, Mumbai.
25. Bathymetry surveys at WQ-07 & WQ-08 at Visakhapatnam Port Trust, Visakhapatnam for ITD Cementation, Visakhapatnam.
26. Hiring of Personnel and Equipment for Ocean Sparkle Limited, Hyderabad for conducting interim bathymetric Survey at 6<sup>th</sup> & 7<sup>th</sup> berth & fishing channel area at Kakinada Deep Water Port, Kakinada.
27. Hiring of personnel for joint third party representative services (with ISDL) for pre, interim and post bathymetric surveys for maintenance dredging at main Channel from fairway buoy to berth and Main Berth, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> berth areas at Kakinada Deep Water Port, for Kakinada Seaports Limited, Hyderabad, India.
28. Hiring of personnel for joint third party representative services (with ISDL) for Tender bathymetric surveys at Main Channel from fairway buoy to berth and Main Berth, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> berth areas at Kakinada Deep Water Port, for Kakinada Seaports Limited, Hyderabad, India.

## **2015**

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1. Bathymetry surveys at Katary Lake, Conoor, Ooti, Tamilnadu for Hydro dredging works, Perupalem, Andhra Pradesh.
2. Interim-03 Bathymetry surveys at Ambedkar Dock Basin area, Chennai at Chennai Port Trust for ASR Dredging Services, Cochin, Kerala.
3. Hiring of personnel for joint third party representative services for bathymetric survey with OSL for pre maintenance dredging survey at 7<sup>th</sup> Berth backup area near Kumbabishekam area for Kakinada Deep water port for Kakinada Seaports Limited, Kakinada.
4. ADCP Current meter data processing services for Capital Surveys, Abu Dhabi, UAE.
5. Hiring of personnel for conducting magnetometer Survey using Geometrics G-882 to locate cutter of DCI Dredger-VII Inside Haldia Dock Basin, Haldia, Kolkata, West Bengal for Dredging Corporation of India.
6. Hiring of personnel for joint third party representative services for bathymetric survey with OSL for pre maintenance dredging at 5<sup>th</sup> & 6<sup>th</sup> Berth area for Kakinada Deep water port for Kakinada Seaports Limited, Kakinada.
7. Interim-02 Bathymetry surveys at Ambedkar Dock Basin area, Chennai at Chennai Port Trust for Meka Dredging, Mumbai.
8. Processing of Borehole data to make interpretative geoprofiles for Saudi Geomatics, KSA.
9. Side scan sonar data processing services for data at Khafji at Kuwait for Saudi Geomatics, KSA.
10. Hiring of Personnel and Equipment for Ocean Sparkle Limited, Hyderabad for conducting interim bathymetric Survey at 6<sup>th</sup> & 7<sup>th</sup> berth & fishing channel area at Kakinada Deep Water Port, Kakinada.
11. Positioning Services around Visakhapatnam for Global Technology Services.
12. Bathymetric Survey for Feasibility Study of Intake Pipeline Route off Mukkam, Bhogapuram, Vizianagaram, Andhra Pradesh, India for CP Aqua Culture (India) Pvt Ltd, Visakhapatnam, India.
13. Hiring of personnel for conducting magnetometer survey using Geometrics G-882 to locate missed dredger door at Dumping yard at Visakhapatnam, Andhrapradesh for Dredging Corporation of India.
14. Bathymetric Survey of Plunge Pool at Koldam Hydropower Project in Bilaspur Dist, Himachal Pradesh for NTPC. (A Govt. of India Enterprise)

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15. Processing of Met-Ocean data for project at Dhuwah at Oman for ARD Geographics, Abudhabi, UAE.
16. Interim-01 Bathymetry surveys at Ambedkar Dock Basin area, Chennai at Chennai Port Trust for Meka Dredging, Mumbai.
17. Hiring of personnel for joint bathymetric with OSL at Fishing Channel at Kakinada Deep water port for Kakinada Seaports Limited, Kakinada.
18. Bathymetric and topographic survey for de-silting of Mudsarlova Reservoir for Greater Visakhapatnam Municipal Corporation, Visakhapatnam in Visakhapatnam District, Andhra Pradesh, India.
19. Bathymetric and topographic survey for de-silting of Meghadrigedda Reservoir for Government of Andhra Pradesh in Visakhapatnam District, Andhra Pradesh, India.
20. Processing of RCM Current meter Data for Enviro technologies for New Horizon Surveys, Mumbai, India.
21. Hiring of personnel for joint Capital Maintenance dredging bathymetric survey with OSL for joint 6th & 7th Berth for Kakinada Deep water port for Kakinada Seaports Limited, Kakinada.
22. Hiring of personnel for joint bathymetric survey with OSL for Post maintenance dredging at 6th Berth area for Kakinada Deep water port for Kakinada Seaports Limited, Kakinada.
23. Hiring of personnel for joint bathymetric survey with OSL for Capital Dredging for widening at 6<sup>th</sup> berth for Kakinada Deep water port for Kakinada Seaports Limited, Kakinada.
24. Processing of Current and CTD Data for Abu Dhabi Municipality for CP Surveys, Abudhabi, UAE.
25. Processing of Shallow Seismic Data in Mediterranean Sea off Lebanon for Edessa Group, Beirut, Lebanon.
26. Bathymetric Survey for Proposed Trench Route at locations at Nellore, Gudur and Ongole for CP Aqua Culture (India) Pvt Ltd, Nellore, India.
27. Interim-05 dredge Bathymetric Surveys at WQ-06 at Visakhapatnam for West Quay Multiport Pvt Limited & S. Satyanarayana & co., Visakhapatnam, India.
28. Damage Assessment Survey Pre & Post Cyclone Hudh-Hudh for Gangavaram Port Limited.

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29. Hiring of personnel for Bathymetric surveys for preparation of Pile Platform & 7th & 8th Berth approaches, Sand Trap Area for Phase-I for Kakinada Deep water port for Kakinada Seaports Limited, Kakinada.
30. Hiring for Personnel for carrying out processing and interpretation of Bathymetric and geophysical data collected at Um Qasr and Al Zubayr areas, Iraq for Southern Gulf Surveys, Abudhabi, UAE.

## **2014**

1. Interim-04 dredge Bathymetric Surveys at WQ-06 at Visakhapatnam for West Quay Multiport Pvt Limited & S. Satyanarayana & co., Visakhapatnam, India.
2. Joint maintenance dredge bathymetry survey with OSL at 7<sup>th</sup> and 8<sup>th</sup> jetties at KDWP, KSPL, Kakinada.
3. Interim-03 dredge Bathymetric Surveys at WQ-06 at Visakhapatnam for West Quay Multiport Pvt Limited & S. Satyanarayana & co., Visakhapatnam, India.
4. Bathymetry survey from MLC to ILC at Dhamra for JGM shipping, Dhamra, Orissa
5. Consultancy Services for Waves, Current Direction and Tide & Seabed Imagery (Geophysical) for Govt. of Karnataka - PMUSCP & MIP Project - Ullal, Mangalore, Karnataka.
6. Interim-02 dredge Bathymetric Surveys at WQ-06 at Visakhapatnam for West Quay Multiport Pvt Limited & S. Satyanarayana & co., Visakhapatnam, India.
7. Hiring of third party consulting services for pre-dredge, interim, and post dredge maintenance Surveys at KSPL, Kakinada, India.
8. Waves and currents data processing and reporting services for SeaGeo Surveys, Mumbai, India.
9. CTD, ADCP and Tide data processing services for project at Al Jubail, Kingdom of Saudi Arabia (KSA) for Saudigeomatics, KSA.
10. Side scan sonar data acquisition and data processing services for Geophysical services limited, Bahrain at Mina Salman, Bahrain.
11. Bathymetric Survey for maintenance dredging at Main Channel from fairway buoy to berth and Main Berth, 4th, 5th, OSV Jetties & Channel, NRW Extension Jetties & Channel at Kakinada Deep Water Port, Kakinada, India.
12. Bathymetry and Side Scan Sonar survey services for Sembmarine Kakinada Limited at Floating Dock Area, Kakinada Deep Water Port and Kakinada, India.

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13. Interim-01 dredge Bathymetric Surveys at WQ-06 at Visakhapatnam for West Quay Multiport Pvt Limited & S. Satyanarayana & co., Visakhapatnam, India.
14. Geophysical acquisition and data processing services for Worley Parsons, Singapore at Al Hidd area, Bahrain for Southern Gulf Surveys, Abu Dhabi, UAE.
15. Geophysical acquisition and data processing services for Acciona at Khor Fakkan area, Fujjarah for Southern Gulf Surveys, Abu Dhabi, UAE.
16. Geophysical data processing services for Mecon project at Gopalpur port area for Zenith Surveys, Mumbai, India.
17. Waves, currents and CTD data processing and reporting services of Yanbu area for Saudi Geomatics, Kingdom of Saudi Arabia (KSA).
18. Hiring of personnel and geophysical data processing services for Gopalpur port at Gopalpur port area for Zenith Surveys, Mumbai, India.
19. Weather station data processing services of Saadiyat Island for Sultan Ahmed Gen. Transport and Cont. Est., Abudhabi.
20. Pre-dredge Bathymetric Surveys at WQ-06 at Visakhapatnam for West Quay Multiport Pvt Limited & S. Satyanarayana & co., Visakhapatnam, India.

## **2013**

1. Hiring of personnel for conducting bathymetric survey for trench monitoring at Krishnapatnam for Boppana Global Constructions Pvt. Ltd., Hyderabad, India.
2. Current meter and wave data processing services of Hamiyah free zone for Halcrow International for Southern Gulf Surveys, Abudhabi.
3. Current meter and wave data processing services of Oman superior marinas for Southern Gulf Surveys, Abudhabi.
4. Tide data processing services of Saadiyat Island for Sultan Ahmed Gen. Transport and Cont. Est., Abudhabi.
5. Hiring of personnel for conducting multi-beam bathymetric surveys at Jaber Al Sabha Causeway area, Kuwait for Hyudai Engg. for Seapro Petroleum and Marine services S.A.E., Egypt.
6. Hiring of personnel for Geophysical Data Acquisition and processing services at Gopalpur port survey for Zenith Surveys, Mumbai, India.
7. Hiring of third party consulting services for bathymetry surveys at maintenance dredging work at 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> berth areas for KSPL, Kakinada, India

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8. Geophysical data processing services for Jaber Al Sabha Causeway area, Kuwait for Hyudai Engg. for Seapro Petroleum and Marine services S.A.E., Egypt.
9. Hiring of third party consulting services for bathymetry and topographic surveys at Diaphragm Wall for KSPL, Kakinada, India
10. Hiring of third party consulting services for pre-dredge, interim, and post dredge maintenance Surveys at KSPL, Kakinada, India.
11. Current meter processing of Senegal, West Africa for New Horizon Surveys, Mumbai, India.
12. Processing of current meter at Hazira, Gujarat, India for WAPCOS for Zenith surveys, Mumbai, India.
13. Hiring of personnel for bathymetric survey of Kakinada Deep Water Port- Main Channel 1KP to 2 KP for Maintenance Dredging for Kakinada seaports Pvt. Ltd (KSPL), Kakinada, India
14. Processing of current meter & waves data, Maqta Bridge for Jacobs Engg. for Capital Surveys, Abudhabi, UAE.
15. Hiring of Personnel for multi-beam and magnetometer survey of Alzubayr, Umm qasr and Al few areas, Iraq off Bubayan Island for Boskalis for Southern Gulf Surveys, Abudhabi, UAE.
16. Current meter, weather and wave data processing for Osami Eng for Saudi Geomatics, Saudi Arabia.
17. Processing of current meter & wave data, Hyder Consulting for Capital Surveys, Abudhabi, UAE.
18. Processing of met Ocean data at Muscat, Oman at Cadagua, WABAG, Galfar for ARD Geographics, Sharjah, UAE.
19. Side scan sonar data Processing for Capital Surveys, Abudhabi, UAE.
20. Bathymetric Survey for maintenance dredging at Main Channel from fairway buoy to berth and Main Berth, 4th, 5th, OSV Jetties & Channel, NRW Extension Jetties & Channel at Kakinada Deep Water Port, Kakinada, India.
21. Side scan sonar data processing area Yanbu, Red Sea for Saudi Geomatics, Saudi Arabia.
22. Bathymetric survey for delineating pipeline trench at Krishnapatnam, Nellore for UPI Polymers, Hyderabad.

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23. Processing of current meter and wave data processing for Sadiyat and Hyudayayat Bridges for Southern Gulf Surveys, Abu Dhabi, UAE.
24. Pre-dredge Bathymetric Survey in Krishna River- Rapalle, Guntur Dist. for Akash Dredging, Visakhapatnam.
25. Processing of sub bottom profiler data for Al Jeer Port- RAK, UAE for Capital surveys, Abu Dhabi, UAE.
26. Processing of current meter data for Bahrain Palace for Capital surveys, UAE.
27. Processing of Weather, current and wave data for Al Jaraf Palace, Abu Dhabi, UAE for Capital surveys, Abu Dhabi, UAE.
28. Processing of current meter data (Valeport) for New Horizon Surveys (I) Pvt. Ltd., Mumbai on behalf of DBM Geotechnics, Mumbai
29. Current meter data processing at Dahej, Gujarat for New Horizon Surveys, Mumbai.

## **2012**

1. Bathymetric survey for breakwater inspection at Gopalpur Port, Orissa for Sri Avantika Contractors.
2. Hiring of positioning equipment and personnel for conducting positioning services for installation of weather station off Dolphin's nose for Geomardy, Visakhapatnam.
3. Gradio-magnetometer survey consultancy, processing and reporting Services for NMDC, Abu Dhabi, UAE.
4. Hiring of personnel for geophysical survey off Sea palace, Abu Dhabi for Southern Gulf Surveys, Abu Dhabi, UAE.
5. Bathymetric survey (Periodical) at Harbour Basin-Paradip Port for Mercator.
6. Processing of weather, current and wave Data for Crown Price Office for Capital surveys, Abu Dhabi for a project.
7. Hiring of hydrographic surveyor as third party representative for 6th berth area survey at Kakinada Deep Water Port for Kakinada Seaports Limited, Kakinada, India.
8. Bathymetric survey at Kakinada deep water port for Kakinada Seaports Limited.
9. Processing of sub-bottom profiler data for Al Sheikwh for Seapro Petroleum and Marine Services, Alexandria, Egypt.
10. Bathymetry survey at Visakhapatnam port entrance south breakwater for Paresh Constructions, Mumbai.

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11. Current meter data processing and reporting for Salwa Resort Project, Qatar for Southern Gulf Surveys, Abu Dhabi, UAE.
12. Hiring of personnel for conducting multi-beam surveys for Geomardy, Visakhapatnam.
13. Hiring of geophysicist for geophysical survey data acquisition and processing at Visakhapatnam Port Trust for NSTL for Geomardy, Visakhapatnam, India
14. Current meter data processing and reporting for Sogreah Groupe Artelia-Bahrain-for Southern Gulf Surveys, Abu Dhabi, UAE.
15. Hiring of Personnel and equipment for conducting bathymetry survey for pre, check survey, and post survey at N14 jetty and Harbour channel area Visakhapatnam port trust for Saibhya Oceanics Pvt Limited, Kakinada.
16. Hiring of Personnel and equipment for conducting bathymetry survey at N14 jetty and Harbour channel area Visakhapatnam port trust for Saibhya Oceanics Pvt Limited, Kakinada.
17. Hiring of Personnel for conducting bathymetry survey at N14 jetty and harbour channel area Visakhapatnam port trust for Saibhya Oceanics Pvt Limited, Kakinada.
18. Bathymetric Survey for Feasibility of Jetty- off Boyapadu, Nakkapalli for Planet SEZ, Mumbai.
19. Bathy survey at floating dry dock and adjoining areas for at Kakinada deep water port for Kakinada Seaports Limited.

## **2011**

1. Current meter data processing, interpretation and reporting services for the project at Navlakhi for New Horizon Surveys (I) Pvt. Ltd., Mumbai, India.
2. Data processing for Current Meter and Wave Data at Khor Fakkan – Fujirah for ARD Geographics, Sharjah, UAE.
3. Hiring of Geophysicist for geophysical survey works carried out at Visakhapatnam Port Trust for HPCL for New Horizon Surveys(I) Pvt. Ltd., Mumbai, India
4. Hiring of Geophysicist for geophysical survey works for the Project 4x660 MW Thermal Power Project at Thoothukodi, Tamil Nadu for Global Marine Infratech Pvt. Ltd., Bhubaneswar, India.
5. Processing of current meter data interpretation and reporting services for ADDC for Southern Gulf surveys, Abu Dhabi, UAE.

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6. Processing of current meter data, interpretation and reporting services for Parsons for Southern Gulf surveys, Abu Dhabi, UAE.
7. Geophysical data processing, interpretation and reporting services project at Bombay Port Trust for New Horizon Surveys (I) Pvt. Ltd., Mumbai, India.
8. Hiring of geophysicist for geophysical survey works carried out at Bombay Port Trust for New Horizon Surveys (I) Pvt. Ltd., Mumbai, India.
9. Current meter data processing, interpretation and reporting services for ENEC for Southern Gulf surveys, Abu Dhabi, UAE.
10. Current meter data processing, interpretation and reporting services for Parsons' data for Southern Gulf surveys, Abu Dhabi, UAE.
11. Geophysical data processing for the PNG project for sand search near the Island of Daru, Off Papua New Guinea for Mapping & Hydrographic Survey Pty Ltd, Queensland, Australia.
12. Geophysical data processing, interpretation and reporting services off Townsville for M H & S, Queensland, Australia.
13. Geophysical data processing, interpretation and reporting services for Dharamtar creek area data for New Horizon Surveys Pvt Ltd, Mumbai, India.
14. Hiring of Hydrographic surveyor as third party representative for Maintenance survey at Kakinada Deep Water Port Navigational channel for Kakinada Seaports Limited, Kakinada, India.
15. Hiring of Personal for Magnetometer survey data acquisition KDWP, Kakinada for International Seaport dredging Pvt. limited, Chennai, India.
16. Side scan sonar data processing, interpretation and reporting services for ARD Geographics, Sharjah, UAE.
17. Data Processing and Training of Personnel for Hydrographic Surveys in Corniche for Alwarqa Engineering, Dubai, UAE
18. ADCP Current meter data processing, interpretation and reporting services for data at Yemen for Seapro Petroleum and Marine Services, Egypt.
19. Hiring of geophysicist for various Geophysical survey activities such as pre-engineering surveys at Boubyan Island at Kuwait for Design, execution, completion and maintenance of Mubarak Alkabeer Seaport Project (Phase 1 – Stage 2) for Seapro Petroleum and Marine Services, Egypt.

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# GEONSENSE SURVEYS



20. Geophysical and UXO data processing and reporting services for Boubyan Project for Seapro Petroleum and Marine Services, Egypt.

## **2010**

1. Hiring of Geophysicist for various Geophysical Survey activities of offshore and coastal surveys for Southern Gulf Surveys, Abu Dhabi.
2. Hiring of Hydrographic Surveyor for various Geophysical Survey activities of offshore and coastal surveys for Southern Gulf Surveys, Abu Dhabi.
3. Hiring of Hydrographic surveyor as third party representative for post dredge survey activities at Kakinada Deep Water Port Main Channel for Kakinada Seaports Limited, Kakinada, India.
4. Hiring of Hydrographic surveyor as third party representative for dredging interim survey activities at Kakinada Deep Water Port Navigational channel, OSV NRW Extn. Jetty & Approaches and south bund area for Kakinada Seaports Limited, Kakinada, India.
5. Hydrographic Survey to determine Navigational Channel route facility for K.G.Basin Project off Yanam at Kakinada, Andhra Pradesh, India.
6. Hiring of Hydrographic survey as third party representative for pre dredging survey activities at Kakinada Deep Water Port at OSV NRW Extn. Jetty & Approaches for Kakinada Seaports Limited, Kakinada, India.
7. Processing & reporting of Side Scan Sonar and Magnetometer data for surveys carried out for proposed pipeline locations in Baluchistan and salvage support operations in Karachi port for Capital Surveys LLC, Abu Dhabi.
8. Hiring of Geophysicist for various Geophysical Survey activities of offshore at KG Basin for COMACOE for GSPC, Gujarat.
9. Hiring of geophysicists for various Geophysical survey activities such as pre-engineering and pre-construction surveys at Mumbai Oil High and Pre-Construction surveys at Bassein Oil Field for laying of pipeline routes and construction of new platforms at Mumbai and Bassein Oil Fields for National Petroleum Construction Company, Abu Dhabi, UAE.
10. Hiring of Geophysicist for various Geophysical Survey activities of offshore and coastal surveys for Southern Gulf Surveys, Abu Dhabi.

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11. Hiring of Hydrographic survey as third party representative for pre dredging survey activities at Kakinada Deep Water Port Main Channel for Kakinada Seaports Limited, Kakinada, India.
12. Magnetometer Survey & Training of DCI personnel at Marmugao Port Trust for Dredging Corporation India.

## **2009**

1. Hiring of geophysicists for various survey activities for up gradation of existing terminal facilities for Southern Gulf Surveys, Abu Dhabi on behalf of Kuwait Oil Company, Kuwait City, Kuwait.
2. Positioning surveys for a 60" As laid effluent disposal pipeline at Pudimadaka for Flow line Systems Pvt. Ltd., Mumbai on behalf of Brandix Apparels Ltd., Visakhapatnam, India.
3. Hiring of hydrographic surveyor as third party representative for pre-dredging survey activities at Kakinada Deep Water Port for Kakinada Seaports Ltd., Kakinada, India.
4. Hiring of geophysicist for search of lost anchor by side scan sonar survey at Gangavaram Port, for Geo Marine Dynamics (I) Pvt. Ltd., Visakhapatnam, India.
5. Hiring of geophysicist for pre-engineering survey for laying of 48" pipeline for Geometra INC, Singapore.
6. Data processing and report preparation for side scan sonar survey of Ferry and Abra locations for Capital surveys, Abu Dhabi on behalf of Dubai Regional Transport Authority, Dubai, UAE.
7. Hiring of Geophysicist for various Geophysical Survey activities of offshore and coastal surveys for Southern Gulf Surveys, Abu Dhabi.
8. Hiring of Geophysicist for various Geophysical Survey activities of offshore and coastal surveys for COMACOE, Mumbai, India, on behalf of GSPC, Ahmedabad, Gujarat.
9. Magnetometer Survey, Training & Processing to personnel of Dredging Corporation India, Paradip, India.

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# GEOSENSE SURVEYS



## 8.0 PAST EXPERIENCE IN VARIOUS FIELDS

The technical personnel of **Geosense Surveys** have a plethora of highly technical and professional skills in their respective fields of Positioning Services, Hydrography & Topography, Marine Geophysics and Meteorology & Oceanography.

### ***Positioning***

#### **National**

1. Demarcation of LTL & HTL in the project site at Cuddalore, Pioneer Jellice India (P) Ltd., Cuddalore.
2. Delineation of LTL, HTL & CRZ at Cuddalore, Chemplast Sanmar Limited, Chennai.
3. Benchmark level transfer from Nagapatinam to Nagore, Chemplast Sanmar Limited, Chennai.
4. Positioning of Trailing Suction hopper and back Hoe Bucket Dredgers, Laying of buoys along Entrance channel.
5. Checking of all controls done by Civil Contractors in survey field. Levelling, Trimble GPS Observation with 512 special team of Royal Engineers (UK). Computation of various GPS control network using Trimble dGPS and Trimvec Plus software.
6. Rig Move / Barge Position using Syledis R.P Chain and computer along with GPS MX-100, Magnavox-1502. Engineering survey of Nagapatinam and Channel survey for determination of Land fall point and Moon pool position.
7. Systems Engineer for Bathymetry survey (Affluent Pipe laying barge positioning for ESSAR off Kanthiyajal at Gujarat).
8. Systems Engineer for rig positioning services at west coast of India for ONGC. Surveyor onboard
9. Surveyor onboard Derrick barge DB-30 at Bombay High for monitoring Jacket installation of ONGC

#### **International**

10. Systems Engineer and Party Chief for diver positioning services for Dulam International at Kargh Island off Iran.
11. Surveyor/System Engineer for barge positioning for debris and well cap removal for Atlantis Holding Norway

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# GEOSENSE SURVEYS



## **Hydrography & Topography**

### **National**

1. Bathymetry and land surveys for Visakhapatnam Power station project, Calcutta, on behalf of Hitachi Ltd., Japan Approx .Lat 17° 33' N, Long 83° 06' E.
2. Bathymetric surveys for Indian Navy for development of a minor port at Dhamra, 140 kms northeast of Bhubaneswar, Orissa on behalf of Larsen & Turbo and International Seaports Pvt Limited, Singapore. Total line km: 66.
3. Hydrographic surveys for Goa Shipyard for Dharti Dredging infrastructure Pvt limited, Hyderabad.
4. Pre-dredging Hydrographic surveys with Multi beam Echo sounder (Elac's Seabeam1185 with Hypack Hysweep acquisition & processing software) at Ennore basin for Hyundai.
5. Bathymetry survey for the development of shipyard at Cuddalore, Good Earth Maritime Limited, Chennai.
6. Periodical bathymetry survey Ennore port, Ennore Port Limited, Chennai.
7. Bathymetry survey at Machilipatnam old mouth and Pedapatnam, Maytas Infra Private Limited, Hyderabad.
8. Bathymetry and current measurements near Devi point, Navayuga Engineering Co.Ltd., Hyderabad.
9. Hydrographic survey at Chilka Lake, Chilka Development Authority, Bhubaneswar.
10. Pre-dredging survey at Krishnapatnam Port, Dharti Dredging & Corporation Limited, Hyderabad.
11. Bathymetric Survey along the North Orissa Coast, Indian Institute of Technology Madras, Chennai.
12. Bathymetry survey for Shipyard at Ennore, Larsen & Toubro, Mumbai.
13. Bathymetry survey at Nagapattinam Port, Tamilnadu Maritime Board, Chennai.
14. Bathymetry survey for Godavari River mouth at Antarvedipalem, Kakinada Port, Kakinada.
15. Bathymetry survey at Chennai Port, India, for Aban Pte. Ltd., Singapore.
16. Bathymetry survey at Krishnapatnam Port, Dredging & Desiltation Company (P) Ltd., Calcutta.
17. Bathymetry survey at Krishnapatnam, Navayuga Engineering Co. Ltd., Hyderabad.
18. Bathymetry survey at Gangaveli River, North Karnataka, D.B. Enterprises, Belgaum.
19. Bathymetry survey at Machilipatnam Port, Maytas Infra Private Limited, Hyderabad.
20. Bathymetry Survey at Krishnapatnam, Navayuga Engineering.
21. Hydrographic survey in Mandovi River, Goa, Panduronga Timblo Industrias, Goa.
22. Bathymetry survey at Kakinada Fishing Harbour, Kakinada Port Department, Kakinada.
23. Bathymetry survey off Ennore groyne fields, Indian Institute of Technology, Chennai.
24. Bathymetry survey for Kakinada Commercial Canal, Kakinada Port, Kakinada.
25. Bathymetry survey at Ennore Port, Ennore Port Limited, Chennai.
26. Hydrographic survey for Seawall at INS Dronacharya, Fort Kochi, Geometry Construction Company, Kochi.
27. Post Tsunami bathymetry survey at 10 fishing harbours in Tamil nadu, Govt. of Tamilnadu.

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28. Bathymetry survey for Ship breaking unit at Kakinada, NSDRC, Visakhapatnam.
29. Hydrographic surveys and Hydrodynamic modelling for Machilipatnam Port, NSDRC, Visakhapatnam.
30. Hydrographic survey for seawall at INS Dronacharya, Fort Kochi, for Geo Foundations & Structures Private Limited, Cochin.
31. Pre dredging and maintenance dredging surveys at Krishnapatnam Port Company Ltd., Hyderabad (Odom Hydrotrac and Garmin GPS 238 Echosounder with DBR 300 beacon receiver)
32. Bathymetry survey at Pondicherry Port, for Ilham-Asia Marine & Port Engineering Co. Pvt. Ltd., Mumbai.
33. Hydrographic studies at Ennore, for National Thermal Power Corporation Ltd., Secunderabad.
34. Bathymetry survey off Minjur, IMC, Ltd., Chennai. (Odom Hydrotrac and Garmin GPS 238 echosounder with DBR 300 beacon receiver)
35. Worked independently as Project Coordinator for capital Dredging projects in Mombasa port and Constructions jobs for Kenya Navy (Defence projects). Independently engaged as company surveyor for construction of Defence jetty to be used for Landing Craft by Kenya Navy. Routine /Pre Dredge/post dredge survey of the whole Mombasa-Kenya Port.

## **International**

36. Bathymetric and Topographic Survey at Nurai Island, off Abu Dhabi, UAE for Van Oord Dredging.
37. Bathymetric survey of Emirates Palace Hotel Marina, bay & approaches, Abu Dhabi. UAE for KARE Marine Magnetometer search for lost dredge cutter at Reem Island off Abu Dhabi for Pal Technologies.
38. Bathymetric & Topographic surveys prior to construction of a jetty and power distribution substation for Target Marine.
39. Familiarisation of staff on calibration methods for bathymetric equipment during dredging operations prior to deployment on site (theoretical & practical demonstrations) for ABSG Consulting.
40. Interim bathymetric survey for dredge monitoring at Reem Island, off Abu Dhabi for Pal Technologies.
41. Bathymetric survey of proposed jetty approach route for at far end of Mussafah channel, Abu Dhabi UAE for Porcellan.
42. Bathymetric survey to determine extent of remedial dredging requirements at Qarasina Island, off Abu Dhabi for Overseas AST.
43. Bathymetric & topographic surveys prior to construction of a jetty and power distribution substation for target Marine.
44. Pre Excavation surveys (Bathymetric and Topographic for "Shams" Abu Dhabi, UAE for PAL technology.
45. Bathymetric & sub bottom profiling survey to ascertain position & depth of approx 7km of 40' gas pipeline off Sadiyat Island, Abu Dhabi, UAE for Jan De Nul Dredging.
46. Hydrographic surveys for Dorlah Container terminal at Djibouti, Africa for Aries Marine, Dubai on behalf of Odebrecht, Brazil.
47. Post dredging Hydrographic surveys at Doha, Qatar for Alwakra Port for Mubarkia Marine services company limited, Doha (Odom Echotrak CVM with Trimble dGPS)

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48. Worked as independent dredge supervisor, in Mnazi bay (Tanzania) gas pipe line project. Responsible for digging straight trench for laying gas pipe line in depth ranging from 3m to 12m below CD. Dredger used was Back Hoe dredger.
49. Surveyor/ Survey Engineer for Pre and post dredging single beam, multibeam, geophysical surveys and environmental data collection using hydro track E/S, DGPS DSM 232, Reson Seabat multibeam system, Data hog Weather station work horse sentinel ADCP and tide gauges for various reclamation project in and around Abu Dhabi/ Dubai, UAE

## **Marine Geophysics**

### **National**

1. Geo-technical and Geophysical Investigation for fixing of bridge alignment over river Vasista –Godavari for Mytas Infra Projects.
2. Side Scan Sonar Survey for Access channel at Gangavaram Port for International Seaport Dredging Ltd. (Dredging International).
3. Shallow Seismic Data Processing (X Star profiler data), Interpretation & Report Preparation for determination of sediment thickness at Indira Sagar Reservoir, Khandwa, Madhya Pradesh, India for Zenith Surveys Pvt. Ltd on behalf Madhya Pradesh Power Generating Corporation for Hydro Power Project.
4. Shallow Seismic Data Processing (X Star profiler data), Interpretation & Report Preparation for identification of basement rock for upcoming deep water port at Dighi, Maharashtra, India for Zenith Surveys Pvt. Ltd on behalf of Balaji Group.
5. Seabed survey for drill rig movement at three locations viz, off Paradip (Mahanadi field), Visakhapatnam, Gopalpur and off Amalapuram (KG field) for ONGC on call out basis.
6. Geophysical surveys for Reliance Industries Limited (RIL) for the proposed pipelines and platform locations in Block NEC-25, off Paradip, North East Coast of India. Total Line Km: 1400
7. Seabed Engineering surveys for Gujrat State Petroleum Corporation (GSPC) for proposed pipelines emerging from KG-8 and KG-16, in Bay of Bengal, off East Coast of India. Total Line Km: 300
8. Pre-Engineering Surveys for proposed 33 pipeline routes in Mumbai High Field – RSPPM Project, for IOEC on behalf of ONGC. Total Line Km: 1000
9. Feasibility Study for development of Dahej Port for 1000000 throughput at Dahej, Gujarat for Welspun Gujarat Stahl Rohren Ltd, Dahej, Gujarat at approx Lat 21° 44' 00 N, Long 72° 31' E. Total line km: 120.
10. Pre Engineering/ Post Monsoon Survey for BEAIL offshore pipeline project for laying effluent disposal pipeline at Dahej, Gujarat for Bharuch Echo-Aqua Infrastructure Ltd (BEAIL), on behalf of Essar Limited at approx Lat 21° 28' N, Long 72° 33' E. Total line km: 27.
11. Seabed Engineering Survey for laying effluent disposal pipeline at Dahej, Gujarat for Bharuch Echo-Aqua Infrastructure Ltd (BEAIL), on behalf of Essar Limited at approx Lat 21° 28' N, Long 72° 33' E. Total line kms, 50.
12. Seabed Engineering Survey for laying crude oil pipeline at Sikka, Gujarat for Bharat Oman Refineries Ltd (BORL), at approx Lat 22° 28' N, Long 69° 45' E. Total line kms, Seismic-15 and Bathymetry-27.

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# GEONSENSE SURVEYS



13. Deep-water jetty bathymetry for Kakinada Seaports Limited at Kakinada at approx .Lat 17° 00' N, Long 82° 20' E. Total line km: 250.
14. Phase I-A development of naval base involving geomorphologic, sub-bottom, bathymetric surveys, quantity calculations, dredging, reclamation and break water construction for Indian Navy for North, South, Spur and Work harbour break waters at approx. Lat 14° 45' N, Long 83° 06' E and Long 79° 09' E off Kwada & Binaga Bays near Karwar, Karnataka, West coast of India. Total length: 5.1 km.
15. Pre Construction survey for 20 effluent disposal pipeline project of IPCL at Dahej, Gujarat.
16. As-built/Post lay survey of 20" effluent disposal pipeline project of IPCL at Dahej, Gujarat.
17. Carried Side Scan Sonar Surveys in search for fallen containers from "M.V.VISHVA-NANDINI" off Mumbai Harbor for Smith International Pvt. Ltd., Singapore. Total surveyed line kms, 70.2.
18. As-built surveys for five pipelines from PPA platform to PC,PF,PG,18" Export pipeline to 36" pipeline tie-in location and 18" Spur pipeline form 36" pipeline tie-in location to 42" tie-in location for National Petroleum Construction Company, Abu-Dhabi, Survey location –Panna field, off Mumbai. Total line km: 60.
19. Pre-eng. surveys for installation of MCMV & Steel Ship DG Ranges and Noise Ranges off Marmugao for Indian Navy on behalf of Thorn Communications, U.K. Survey are between Lat 15° 17' N & 15° 23' and Long 73° 42' E & 73° 49' E. Total surveyed line km: 171.
20. Seabed engg. surveys for Krishnapatnam Port Construction Ltd project –for construction of margin port at Krishnapatnam. Survey area between Lat 15° 09' N & 15° 19'N and Long 80° 04' & 80°17' E. Total line km: 504.
21. Hydrographic and Geophysical investigations for 2 lane bridge across Vasista Branch of River Godavari connecting Narsapur of West Godavari District with Sakhinetipalli of East Godavari District.
22. Side Scan Sonar Survey for Access channel at Gangavaram Port for International Seaport Dredging Ltd. (Dredging International).
23. Geophysical Surveys at Sutrapada, Gujarat for L&T.Ramboll for new port construction.
24. Oceanographic Investigations at Nemmeli, Mahabalipuram, Mecon Power Limited, Bangalore.
25. Oceanographic Investigations at Kakinada, Athena Power Limited, Hyderabad.
26. Oceanographic and Geophysical Investigations at Thirukuvalai for Tridem, Chennai.
27. Oceanographic Investigations at Kakinada, Spectrum Power Generation Limited, Hyderabad.
28. Marine EIA studies at Pondicherry Port, Pondicherry Port Limited, Pondicherry.
29. Geophysical and Met-ocean study for the pipeline corridor of CWDL, Befesa Infrastructures India (P) Ltd., Chennai.
30. Geophysical Investigations at Cuddalore, Cuddalore, Cuddalore Power Company Limited, Chennai.
31. Geophysical Investigations at Gopalpur Port, Gopalpur Ports Limited, Orissa.
32. Oceanographic Investigations for the offshore coal terminal at Cuddalore, Cuddalore Power Company Limited, Chennai.
33. Oceanographic Investigations at Periyasamipuram, Unicornn Powergen Pvt. Ltd., New Delhi.

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34. Geophysical investigations off Visakhapatnam, Dredging Corporation of India Ltd., Visakhapatnam.
35. Seabed survey and oceanographic measurements at Subarnarekha mouth, SREI Capital markets, Kolkata.
36. Geophysical Investigations at Gopalpur Port, Gopalpur Ports Ltd., Orissa.
37. Oceanographic studies at Gopalpur Port, Gopalpur Ports Limited, Orissa.
38. Oceanographic studies at Krishnapatnam, Indian Resources Information & Management Technologies Ltd., Hyderabad.
39. Geophysical and bathymetric surveys at Pondicherry Port Limited, Pondicherry.
40. Marine EIA, seabed investigations and mathematical modeling for Metro water Desalination Plant at Kalanji Village, North Chennai Power Company Ltd., Chennai.
41. Rapid Marine Environmental Impact Assessment for the expansion of Nizampatnam Fishing Harbour, Indian Institute of Technology Madras, Chennai.
42. Rapid Marine Environmental Impact Assessment for the development of shipyard at Gurupur river, Mangalore, Bharati Shipyard Limited, Mumbai.
43. Feasibility study for setting up a Desalination plant at Chennai, Indo-Dutch Joint Venture Consultancy, The Netherlands.
44. Oceanographic Surveys at Cuddalore, Chemplast Sanmar.
45. Marine Environmental Impact Assessment study of Antarvedi Fishing Harbour, Indian Institute of Technology Madras, Chennai.
46. Post Tsunami seabed surveys at Karaikal, Chemplast Sanmar Limited, Chennai.
47. Seabed and Oceanographic surveys for Kali River, Karwar, MSPL Ltd., Mumbai.
48. Oceanographic investigations at Gangavaram, Gangavaram Port Limited, Hyderabad. (only processing with Coda on Geokit module)
49. Seabed and oceanographic surveys for CSL, Karaikal, L&T-Ramboll Consulting Engineers Ltd., Chennai.
50. Systems Engineer for Geophysical survey for Reliance Petrochemical at KG basin & Gujarat State Petrochemical at Bairavpallam off Yanam, Pondicherry.
51. Survey Engineer for geophysical survey for GSPC at Yanam, Andrapradesh. East Coast of India using Geo Acoustics Side Scan Sonar, Geo Acoustics Sub Bottom Profiler, Sparker 1500 (with Squid, Boomer plate and Hydrophone), Magnetometer G-882 & Drop corer.
52. Party Chief for rig move survey using side scan sonar, Data acquisition system Coda DA 1000 & Echo sounder in open location (YS-6-1(AA) off Yanam, Andrapradesh, East Coast of India.

## International

53. Sub-bottom profiler data interpretation for Townsville Port, Queensland Australia for MH & S Surveys, Australia.
54. Geophysical surveys for Ras-Al-Akdar Project off Mussafah Channel for Ewan Architectural Consultants.
55. Survey Planning, for Shear Wave Studies at Sir Abu Nu'Air Island, Off Dubai, UAE for Geophysical Services Limited, Bahrain.
56. Data acquisition and shallow seismic data processing of land reclamation for the construction of high rise buildings in Bahrain Geophysical Services Limited, Bahrain on behalf of Dar-Al-Handashah
57. Sub bottom profiling and bathymetric survey of proposed jetty construction location for Procellan.

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58. Geotechnical investigations using wash bore (jet probing) equipment off Abu Dhabi for Pal Technologies.
59. Sub bottom profiling survey for pipeline trench route at Ras Ghumais Islandc (Naval Base) near UAE –Saudi Arabia border for Ital Consult on behalf of Abu Dhabi Distribution Co. (ADDC).
60. Sub bottom profiler survey for Intake and Outfall pipelines for development marine aquarium for Hotel Atlantis off Palm Island, Dubai, UAE for Kare Marine on behalf of Kerzner –Palm Atlantis.
61. Pre-construction and Anchor clearance survey for 3 pipeline routes– Karkara North Fields- Persian Gulf- Qatar for Likpin LLC on behalf of Qatar Petroleum Development.
62. ROV Pre-Lay Pipeline Survey for 26 pipeline routes and 340 existing pipeline crossings at Salman Complex for Likpin LCC, on behalf of Petro Iran Development Company, off Salman Field, Persian Gulf at approx. Lat 25° 32' 15" N, Long 50° 09' 00 " E. Total line kms:70.
63. Party Chief onboard Integrated vessel Logos Surveyor for Pipeline route survey off Iraq (Basra) for Foster Wheeler using Side Scan Sonar, Pipe Liner, Multi beam Echo sounder, C-Nav DGPS and Drop Coring.

## **Meteorology & Oceanography**

### **National**

### **International**

1. Data processing of oceanographic (current and waves), meteorological (wind, temperature, humidity etc) for hydraulic modelling purposes for Nautica Enviroment Associates, DHI Singapore, KARE Marine, National Marine Dredging Co.,

*Interpreting Acoustics Sensibly*

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# GEONSENSE SURVEYS



## 9.0 COMPLETE LIST OF EQUIPMENT EXPERIENCE WORKED AND SOFTWARE USED

List of equipment used by our technical personnel of Geosense Surveys while handling various projects.

### Positioning

#### Marine Positioning equipment

dGPS with RTK (Trimble MS series Leica SR series, Thales) - for land and marine surveys, GcPS (C-Nav), Survey Controllers

Brown Meridian gyro, fluxgate, KVH auto comp1000 & Sperry mark 57 gyro

Syledis, Trisponder, Mini Ranger, GPS MX-1502, Trimble 4000SST, GPS Sercel, DGPS NR103, NDS 100, NDR-100, Aquarius 5000 series Sercel DGPS, Coden, Garmin, Magellan.

DGPS Beacon receivers such as Trimble DSM232, Trimble SPS 461, Hemisphere R110 system, Garmin, etc.

Track link 1510 **USBL** system

Lieca SR530, MX412, MX9250, C-Nav, Trimble DSM 132 & DSM 232 GPS, Radio Modem PDL & EDL

#### Land positioning equipment

Theodelite, Auto level, Dumpy Level, Distomat, Electronic Total Station (Leica),

Tellurometer, distomat, Automatic level, Geodometer, Hydrodist, Sial md 60, Theodolite

### Hydrography & Topography

#### Marine Survey Equipment

##### Equipment Name

##### Manufacturer

#### Single Beam Echosounders

Odom Hydrotrac, Odom Echotrac CVM, Hydrotrac MKII, Odom Hydrotrac MKIII

EA400 dual frequency Echo sounder

10,15, 20 Echo sounder, Raytheon, Precision Depth Recorder

Simrad

Atlas Deso

Ceeducer Pro

#### Multi Beam Echosounders

R2 sonic

R2 sonic

Geoacoustics

Seabat 8101

Reason

Seabeam1185

Elac

#### Sound velocity profiler

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Digibar pro  
CTD velocity profiler  
Valeport

Odom

## Motion sensors

TSS HS50, TSS DMS-H, etc Heave Compensator

## Land Survey Equipment

### Equipment Name

Theodelite, Nikkon Auto level, Dumpy Level, Electronic Total Station (Leica), Sokkia Total station, Trimble Spectra Focus 2 Total stations

## Marine Geophysics

Side Scan Sonars	EG & G, Klein, Edgetech, Geoacoustics
Chirps	Edgetech Chirp profilers, Geo pulse, Geo chirp, Teledyne Benthos Chirp3 sub bottom profiler, Teledyne Benthos dual channel digital side scan sonar
Boomers	EG & G Geometrics, Applied Acoustics, Edgetech
Sparkers	Geostar Squid
Pipeline profilers	Geoacoustics, Edgetech, Geoacoustics Geo Acoustics 310B Pipe liner, Applied Acoustics CSP 1500 Sparker/Boomer with hydrophones Geo Acoustics SS941 Side Scan Sonar EPC GSP1086 Thermal Printer
Parametric Profilers	Innomar SES system, Dual Head Side Scan Sonar
Sector Scan Sonar	Konsberg
Gravity meters	Worden, Lacoste Romberg
Marine Magnetometers	Land & Marine (EG & G Geometrics Cesium Magnetometer/Gradio-magnetometer G-880 & G-882), Seaspy magnetometer/Gradio-magnetometer
Acquisition systems	CODA Geosurvey suite CODA data acquisition system 200, 1000 and 2000, Discover-Digital Acquisition & Processing System, Sonarwiz software
Grab Samplers	Van veen type
Drop Core	Kullenberg type
Vane Shear Apparatus Jet Probes, Pocket Penetrometer	

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## Meteorology & Oceanography

### Current meter/Tide gauge/wave recorder Names

RCM 7 & 9, WTR9  
Bathy thermograph, DRCM, Val port CTD meter 602, Tide gauge vale port 740

### Company

Anderaa  
Vale port

Current & Wave meters, RD Instruments ADCP's 1200 & 600 KHz

RD

ADCP

Interocean

Data log Weather stations

## Miscellaneous equipment

Water samplers  
Grabs,  
Salinometer.  
Gravity corers and grabs

## Software Application Used:

Software applications for surveying and processing:

Type of services	Software	Description
Positioning	Hydro Pro	Navigation, data acquisition and processing software
	Terra Model	Processing and Mapping software
	Hypack Max	Navigation, data acquisition and processing software
	Quinsy	Navigation, data acquisition and processing software
Hydrographic & Topographic	Hochtief	survey processing software
	Augustus	Land and Marine survey processing software
	Prolink	Land survey data downloading and exporting software
Geophysical	Coda DA 200/1000/2000	Seismic/Side scan sonar data acquisition
	Coda on Geokit	Seismic/Side scan sonar data processing and interpretation software
	Coda on Mosaic	Side scan sonar data processing and generating mosaicing software

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	ISE 2.6-SES	Innomer SBP data processing software
	Sonarwiz Map4	Seismic/sidescan sonar data acquisition, processing, and interpretation and mosaic generating software
	Discover	Edge tech SBP/SSS data acquisition software
Meteorology & Oceanography	Wave Mon	Currents, waves and wind data parameter extracting and processing software.
	Win ADCP	Currents, waves and wind data processing software.
Presentation & Mapping	Autocad	2D or 3D CAD drawing, Civil 3D preparation
	Surfer	Gridding and contour preparation
	Grapher	Graphing software
Supporting Software	Visual works	A digital video recording, editing and storage system for pipeline inspection surveys
	Adobe Photoshop	Image editing software
	Adobe Illustrator	Graphs & profile editing software

## 10.0 CONTACT DETAILS:

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### Managing Director

**Bharat Kumar K.V.S.**

### Executive Director

**Apparao V.V.**

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