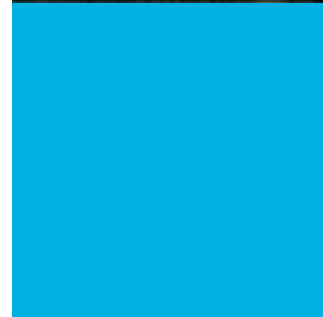


# MAKING THE WORLD SAFER FOR FUTURE GENERATIONS



# HORIZON

## SECTION

Introduction

Journey

Services

Registration & Certifications

Organization Structure

Resources (Manpower & Equipment)

List of Bankers

Past Projects & Experience

Important Events & Appreciation

Glossary

## Section-I

### Introduction

Horizon Group is an ex-servicemen's endeavour founded by senior retired Indian Army Officers in 2001. The Group comprises an NGO (Charitable Trust) and a Private Limited Company.

Horizon Organization for Post Conflict Environment Management (OPCEM) is the first Indian NGO by, of and for Indian Ex Servicemen, dedicated to Post Conflict Environment Management with core competence in Mine Action. It was registered as a Society on 16 Jan 2002.

Horizon Assignments (India) Pvt Ltd was founded as an adjunct to Horizon OPCEM with a view to realizing its objectives of service to humanity and supplement its funding. The Organization was registered on 23 Oct 2003 under Companies Act 1956: Registration Number 25-18489.

Horizon OPCEM recognizes the exceptional potential that soldiers acquire during their service and believes that it ought to be utilized towards humanitarian pursuits, while offering them the opportunity to reinvent themselves and improve their quality of life.

Under its Post Conflict Environment Management operations, Horizon renders services in Mine Action which includes Manual Clearance, Establishing Mechanical Systems, Explosive Ordnance Disposal, Stockpile Destruction, Rehabilitation, Restoration of Infrastructure, Victim Assistance, Explosive Ordnance Risk Education (EORE), and Capacity Development. Horizon has also specialized in earth-moving operations and has the expertise to build low-cost accommodations for post-conflict rehabilitation.

Since 2006, Horizon has been responsible for imparting Specialized Training to Security Forces in various combat-related activities through its well-qualified pool of instructors. We have been providing Specialized Training in the Detection, Neutralization, Disposal of IEDs and Explosives, Shooting, Field Craft, Physical Training, and Unarmed Combat for some of the most dignified security forces including the Maharashtra Police Force as well as the Indian Army. Moreover, we have been providing regular Special Demining Training to the Indian Army Teams going overseas since 2006.



Till now HORIZON has recovered 100,000+ UXO Devices and 100,000,000+ Sq. M. Area surveyed and UXO cleared and disposed.



Additionally, Horizon has been delivering cutting-edge Turn-Key Security Solutions along with offering Security Advisory. Moving ahead on its path of offering post-conflict environmental solutions, Horizon has also moved towards services like Telecommunication, Supply and Installation of Machinery & Modernization of Training Facilities, Creating Training Films in the field of Combat Engineering for the Indian Army, Project Management Consultancy, Water Sports Development and creating a Modular Floating System.

At Horizon, caring for the environment and creating a sustainable living place for future generations is at the center of all our operations. Through our continued efforts in the fields of Demining, Renewable Energy, and Corporate Training & Security Training, Horizon is determined to build a better and safer place to live for every habitant of this planet.

Among the vast range of its services, Horizon is working in the areas of Land Surveying, Non-Intrusive Geophysical UXO Survey, Unexploded Ordnance (UXO) Survey, and Naturally Occurring Radiological Material (NORM) Survey.

Today, HORIZON Group is a multifaceted global organization with projects spanning a number of countries and offers all types of demining services.

Horizon is now an India-operating global name, which has been recognized by the United Nations as well as the Parliament of India. Our facilities have been visited by many influential leaders such as Late Former Foreign Minister Dr. Sushma Swaraj.

The Horizon Group has also received a national award from the Late former Indian president Dr. APJ Abdul Kalam.





## VISION

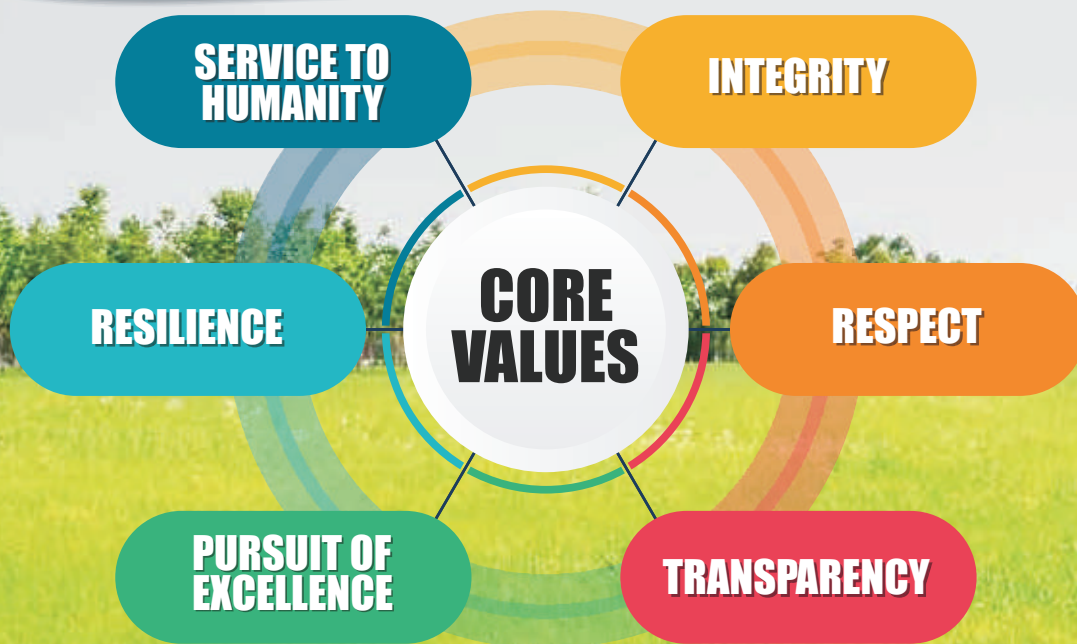
- Recognition of the exceptional professional ability of the retired Indian soldier needs to be utilised towards humanitarian pursuits.
- Indian soldier with his exposure, perseverance, patience, dedication and simplicity sure to excel.
- A resource waiting to be tapped.

## STRENGTH

- Military Ethos and highly professional team.
- Vast International Exposure.
- Quick adaptability.
- Lean and flexible organisation.
- EOD survey and clearance a natural domain.
- Project management capabilities specially during crisis or hazardous task.
- Has sister organisations for supporting larger tasks.

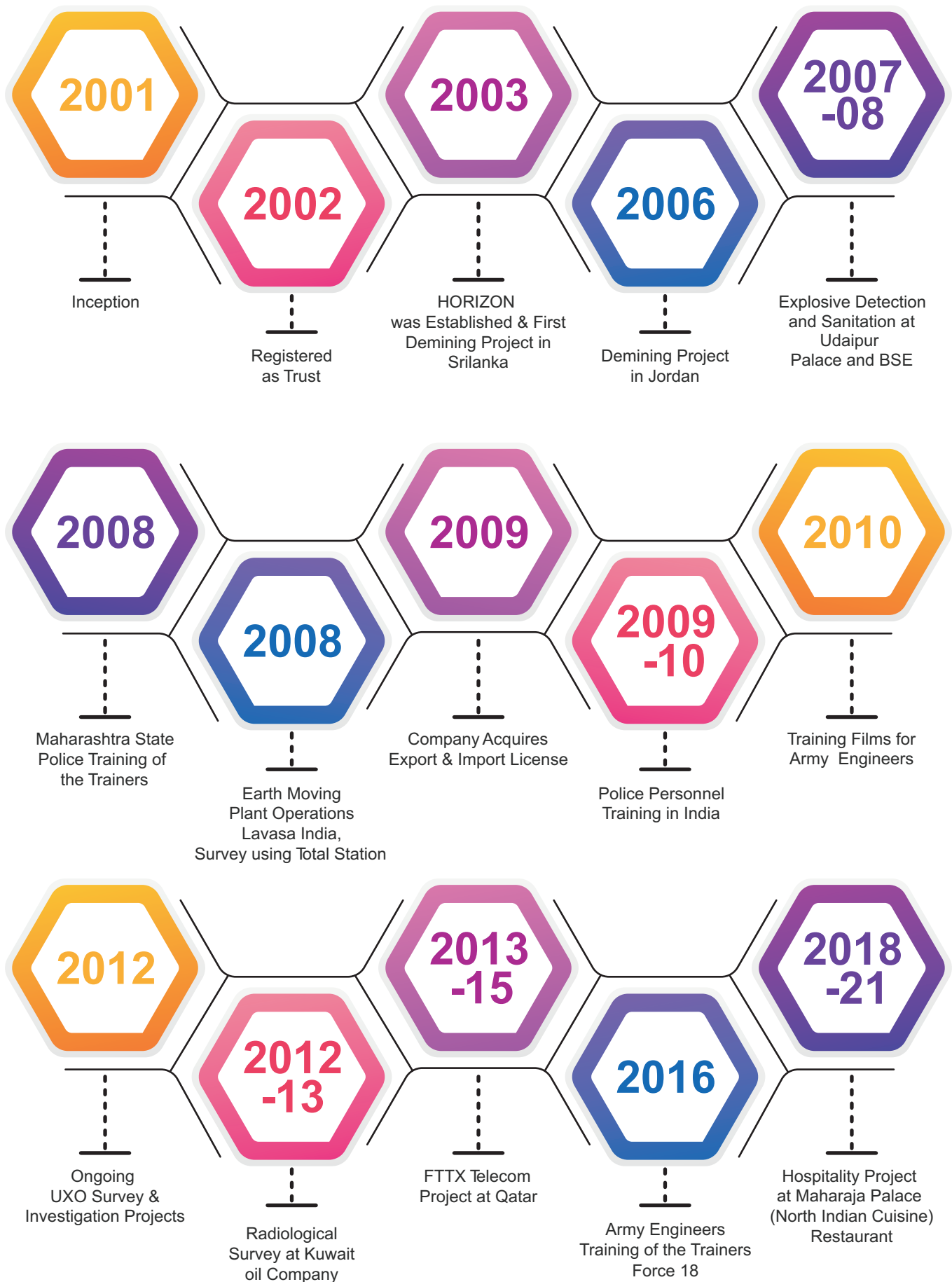
## OBJECTIVES

- Preserving environment and prevention of its degradation.
- Humanitarian demining, explosive detection and disposal.
- Contributing towards enhancement of quality of life.
- Gainful utilisation of knowledge and experience of Veterans

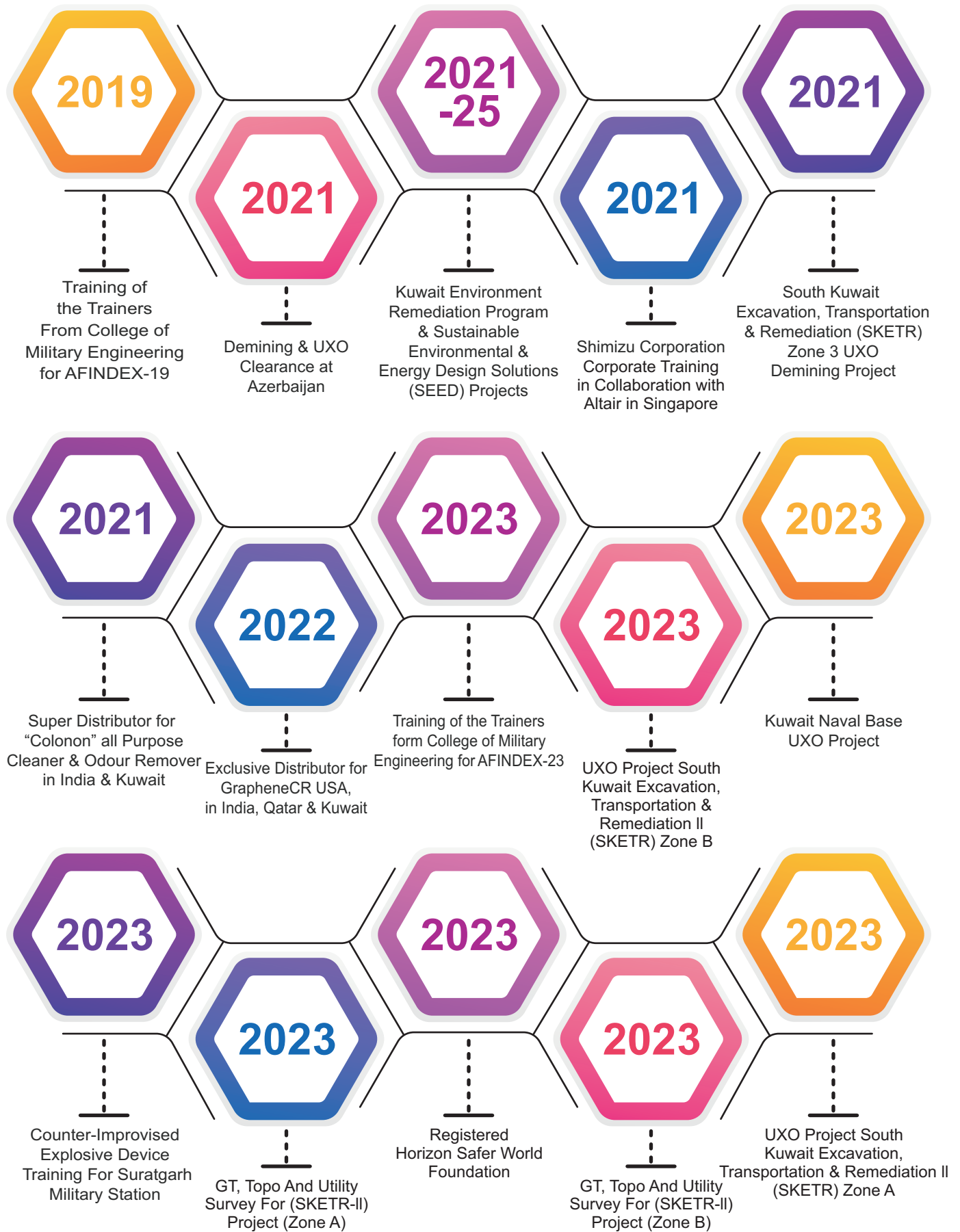


## Section-II

### Journey Begins



## Section-II





## Section-III

### Our Services



#### MINE ACTION

Landmines were first developed during 1916 with the thought of impeding mobility of enemy forces. However, in the last fifty years, the world has seen the advent of localized wars fought by small armies equipped with first-generation weapon systems. They use the mines indiscriminately and without proper drills and procedures. Another problem is the excessive use of mines by insurgents and terrorists to impede the mobility of security forces and terrorize the civilian population.

Owing to these reasons, various non-governmental organizations as well as the United Nations have been involved in mine clearance since 1980 in an effort to reduce the threat landmine pose to innocent civilians throughout the world. Mine Action is the actual process of removal of these mines and making the area safe.

Following Mine Action Procedure are carried by Horizon.

#### Manual Clearance

Despite a variety of expensive and modern machines, which have appeared on the scene of humanitarian Mine Action, manual methods will always remain at the center stage as the most reliable, dependable, and indispensable. It needs to be highlighted that in accordance with the International Mine Action Standards (IMAS), mechanical methods are to be treated only as preparation of the ground. The actual EOD/UXO clearance and the Mine Action process have to be carried out manually since only manual Mine Action can assure the required 99.8% clearance.

It is in this context, that HORIZON has built up a reservoir of Mine Action staff, meticulously selected from the ex-servicemen who are thoroughly trained and extensively practiced in the field. During any maiden project in a foreign country, the Mine Action team comprises exclusively the ex-servicemen expatriates.

HORIZON has a pool of 200 well-trained ex-servicemen Deminers and has the potential to train additional Deminers from Indian ex-servicemen in just four weeks.

## Mechanical System

HORIZON has developed its own ground preparation and Mine Action machines based on excavator cum mechanical raker. These are cost-effective, mobile, efficient, and easy to operate. The utilization of these machines in conjunction with manual Mine Action has significantly improved the speed of clearance.

HORIZON holds a reserve of basic EOD/Mine Action equipment. With its management expertise and dedicated pool of trained EOD personnel/Deminers, HORIZON possesses the ability to undertake a Mine Action project at a short notice from anywhere in the world.

Horizon has been at the forefront of Humanitarian Mine Action in the world.

- Sri Lanka: 16 Mine Action projects executed between 2003-2012.
- Jordan: 2 Mine Action projects along with NPA during 2006-2007.

## Explosive Ordnance Disposal

Horizon undertakes various EOD projects as part of the global mining action.

Kuwait: Executing the EOD project at SEK fields under the Soil Remediation project of TERI (India) since 2012.

## Stockpile Destruction

Horizon has the capability to undertake stockpile destruction. Besides conventional methods, we can also undertake stockpile destruction using eco-friendly methods.

## Rehabilitation

Rehabilitation is the process of bringing the victim of mining blasts back to a normal living style. Horizon has special cells to undertake this task.

## Restoration of Infrastructure

Horizon has cleared 107 KM of disused railway line in Sri Lanka as part of the restoration of infrastructure. Horizon also has the capability to undertake civil and electrical infra projects towards this goal.

## Victim Assistance

We firmly believe that winning the hearts and minds of the local population is a pre-requisite for successful post-conflict management. Therefore, special stress is laid on developing favorable relations with the local population in the area of work.

A medic forms part of the Mine Action team along with an Ambulance. In addition to providing medical assistance to the Mine Action team, they also assist the locals in emergencies. Help is also rendered for the evacuation of patients to local hospitals in our ambulance and special assistance is given to mining victims for their medical treatment as well as resettlement.

## Explosive Ordnance Risk Education

Mine Awareness is an educational process of teaching the population about the threat of mines and munitions, living with the threat they impose, and the changing behavior. The education of the populace about the mines, their hazard, and ways to avoid them while living with them is as important as the Mine Action itself.

The training teams from Horizon tour the affected areas and conduct awareness programs with posters and leaflets. Information obtained from the various mine awareness programs forms an important part of the initial survey data.

## Capacity Development

Capacity building is one of the tenets of Horizon for the mine-affected areas. Horizon has trained and employed nationals in all its Mine Action tasks in Sri Lanka and Jordan, creating an intrinsic capacity amongst the mine-affected countries in Mine Action.

Horizon has over a decade of experience in Mine Action. This includes:

- Workable and efficient Standard Operating Procedures (SOP) in accordance with International Mine Action Standards (IMAS).
- A pool of trained Indian ex-servicemen Deminers.
- State-of-the-art Mine Action and safety equipment procured from internationally reputed firms.
- Mine detection dogs to assist manual Mine Action.
- On-going R&D to evolve mechanical equipment to assist in manual clearance.
- Employing the internally-developed Horizon Mine Action Machine (HDM) based on the excavator chassis in Sri Lanka.
- Well laid down Health, Safety, and Environment (HSE) procedures.







## TRAINING



**Results come when leaders are equipped with the right skills, tools and process and are motivated to do the right activities at the right time.**

- Training helps companies gain and retain top talent, increase job satisfaction and morale, improve productivity.
- Actively interested and dedicated employees see 41 percent lower absenteeism rates, and 17 percent higher productivity.

### SECURITY TRAINING

Horizon has a well qualified pool of instructors for imparting specialized training to security forces in various combat related activities pertaining to detection, neutralization and disposal of IEDs and explosives.

We also specialises in upgrading skill at shooting, field craft, physical training and unarmed combat. Mine Action training to Indian Army Teams going overseas have also been conducted regularly since 2006.

We offer holistic security solution as well as sanitization of the premises

### CORPORATE TRAINING

#### LEADERSHIP TRAINING

Situational Leadership  
Experiential Learning  
Improve Productivity  
Influence Teams  
Implement Strategies  
Critical Decision Making Skills  
Leadership Competency

#### BEHAVIORAL TRAINING

Business Communication  
Personal Effectiveness  
Interpersonal Skills  
The New Age Selling  
Managing Stress  
Live Clutter Free

#### FUNCTIONAL TRAINING

HR Function  
Sales  
Supply Chain Management  
Finance  
Finance for Non Finance  
Microsoft Office  
Performance Coaching  
On the Job Training/Coaching

### THE POSH - WORKSHOP



Post Mumbai Blast in Nov 2008  
Horizon sanitasied the prestigious  
Bombay Stock Exchange



## GEOSPATIAL ANALYSIS

Geospatial analysis refers to the collection, manipulation, and interpretation of geographic information to gain insights and make informed decisions. Land surveying, ground truthing, and GIS (Geographic Information System) are all important components of geospatial analysis, as they involve the acquisition, validation, and management of spatial data. Geospatial analysis has a wide range of applications, including urban planning, natural resource management, emergency management, and many others.

### APPLICATIONS OF GIS

#### **Coastal Zone Management and Mapping:**

Coastal zone management refers to the process of managing the various features of the Earth's landscape. Determining the accurate length of a coastline is a vital part of coastal zone management. This is done through the classification and monitoring of the area.

#### **Environment and Climate Change:**

Geographic Information Systems (GIS) are tools that help organizations monitor the environment through satellite images. They can then use this data to allocate funds for specific species. Through satellite images, an organization can also observe the distribution of various habitats and natural resources.

#### **Infrastructure Management:**

Geographic information systems are used for the design and construction of infrastructure. They allow engineers to communicate with each other and maintain current data. They can also perform iterative data collection procedures without having to exchange data files.

#### **Land Management and Reform:**

Geographic Information Systems (GIS) are tools that allow land managers to quickly visualize and analyze the changes in land use options. Therefore, they are becoming more critical in the management of land. With the ability to change swiftly and analyze multiple land use options, users can make informed decisions.

#### **Natural Disaster Monitoring:**

Geographic Information Systems are commonly utilized in the management of natural disasters, such as flood control, landslides, soil erosion, and earthquake. They also help address the various environmental issues that are currently affecting the world, such as climate change and habitat loss.

#### **Urban Planning:**

With the help of GIS technology, urban planners can now visualize and analyze the various data sources they collect and can thus make informed decisions regarding the planned projects.

## APPLICATIONS OF GROUND TRUTHING

### **Environment:**

Collecting environmental values of soil, water, and air to evaluate the quality of specific site.

### **Water Management:**

Testing the water quality in different check points to help improve the treatment process.



### **Forestry:**

Early detection of trees anomalies and sicknesses.

### **Mines and Natural Resources:**

Improve the quality of the extractables (oil, coal, cement, etc.).

### **Agriculture:**

Sampling and evaluation of the vital parameters of crops and plants.

## LAND SURVEYING

Surveying has been an integral part of the human development process since the very beginning of recorded history. It is commonly used in the planning and execution of various construction projects and is also utilized in mapping, transportation, and the definition of boundaries for land ownership.

## APPLICATIONS OF LAND SURVEYING

### **As-Built Survey:**

Used to document the location of various components of a construction project.

### **Boundary Survey:**

Involves establishing or re-creating the boundaries of a property using a legal description.

### **ALTA/ACSM's Land Title Survey:**

Standardizes the methods used in surveying and mapping land.

### **Control Survey:**

Sets the starting points for future projects. Can also be used to establish reference points for other types of surveying.

### **Hydrographic Survey:**

Conducted to map the bed and shoreline of a body of water.

### **Mortgage Survey:**

A physical survey that shows the boundaries of a property and its building locations.

### **Setout or Stakeout:**

A component of other surveys that involve the marking of an object's proposed or calculated position on the ground. This is a vital part of cadastral and engineering surveying.

### **Topographic Survey:**

Considers the elevation of points on a given piece of land.

### **Drone Surveying:**

Helps contractors in site surveying and captures detailed aerial images and site data.





## GRAPHENE

### Graphene - The Miracle Material

Since its discovery in 2004, graphene has been a hot topic in Chemistry and Material Science. With such amazing properties, no wonder graphene is being researched for diverse applications such as asphalt, concrete, paints, polymers, water filtration, electronics, rubber & elastomers, inks, cosmetics, textiles, 3D printing, medical & biotech, batteries, and more.

### What is Graphene?

A single layer (monolayer) of carbon atoms, tightly bound in a hexagonal honeycomb lattice. It is one million times thinner than a strand of a human hair!

### Properties of Graphene

- Stronger than diamond & steel- 200% superior to structural steel with the same thickness.
- Best Thermal Conductivity of 5000 W/mk- Better than copper, silver, or diamond.
- Highest Impermeability- Concrete using graphene is up to 400% more water impermeable.
- Excellent Elasticity - Can stretch up to 10% of its standard size reversibly & can double up to 20% without any damage.

### Common uses of Graphene

#### Construction Materials

- Concrete
- Cellular Concrete
- Asphalt

#### Coatings

- Marine Paints
- Sealants
- Automotive
- Architectural

#### Energy Storage

- Batteries
- Super Capacitors
- Pipes, Plumbing & Fittings
- Composite Materials
- Polymer Products

### The Eco-friendly Side of Graphene

Our graphenes are made from biomass. Trees in Planned Forestries sequester or “Breathe In” Carbon Dioxide (Co<sub>2</sub>). These same trees are converted into Biochar, which is further converted into two grades of graphene.

### Some Important Applications of Graphene

- Safety Gears
- Tresten Knives
- Graphenoil
- XC gear
- Laser Imaging
- Blackstone Coating
- Ressinea
- Vittoria tires
- Head tennis racquets
- Inov-8 shoes
- Ford underhood parts
- G+ clothing
- The Nanning bridge in Nanning City, China. Resurfaced using Graphene.







## CIVIL WORK

### Earth Work

HORIZON has specialized earth moving teams equipped with earth moving plants. The HORIZON Teams of Ex-Servicemen have successfully carried out earth moving operations at the prestigious construction site of Lavasa near Pune.

### Low Cost Accommodation

HORIZON has experienced technical management to undertake low cost accommodation projects for post conflict rehabilitation.



## TELECOM

HORIZON has undertaken telecommunication project in Qatar under Global Technology Company W.L.L. as subcontractor to Huawei (Ooredoo). Project involved deploying manpower to execute the OSP, ISP Survey, Installation and Migration Works (Underground Cable, B2H and overhead Cables) for its FTTX projects at various locations in the state of Qatar. The work was done as per Standard Operating Procedures of Huawei.



## SOIL REMEDIATION



Soil remediation is the application of proven technologies to mitigate and manage risks from contaminated soils that could be harmful to human health and the environment. Contaminated soil is often the result of historical industrial processes and unregulated waste disposal practices.

## TECHNOLOGY PARTNERS



**EnviroLogic Biobased Technologies**  
Based in Pennsylvania, USA  
SpillAway™ bio-based,  
bio-remedial products



**DE-OIL-IT**  
Based in New Jersey, USA  
nanotech organic  
Hydrocarbon de-grader



**Viraj**  
Base in Navi Mumbai  
Environmental System  
Solutions  
Service Provider

## SOIL REMEDIATION, SLUDGE TREATMENT & OIL RECOVERY



### WHAT IS BIO-REMEDIATION fi

- Uses naturally occurring, safe and non-genetically modified beneficial micro-organisms to degrade environmentally harmful contaminants and turns them into non-toxic compounds.
- Breaks down hydrocarbons and transforms them into CO<sub>2</sub> & H<sub>2</sub>O.
- Use Nanotechnology chemistry to break HC, and achieve remediation through either bio-stimulation or bio-augmentation.

### BIO-REMEDIATION DEGRADES FOLLOWING:

- Hydrocarbons with carbon chains covering from C-5 to C-90.
- Benzene, Xylene and Toluene.
- TCE, PAH, PCB and other chlorinated compounds, Glycols.

### BIO-REMEDIATION BENEFITS:

- Thorough degradation in a relatively narrow time window.
- Toxin resistant and Reduced risk / higher degree of safety.
- Reduced labor and equipment costs.

**BIO-SOLUBLIZER DEGRADER** - use bio-based solvents to break down / detoxify contaminants to achieve remediation through either bio-stimulation or bio-augmentation.

**JACKHAMMER** - Tar & Asphalt Remover that softens / dissolves asphalt & tar.

**Bio-Augmenter** - microorganisms with sp. catabolic abilities to speed up degradation of TPH.

**HC350LR** - live synergistic micro-organisms, with ability to bio-remediate hydrocarbons rapidly.

**Bio-Stimulant** - naturally occurring material that provides ideal habitat enhancement for microbes, expediting bioremediation process.

**Dry Powder Remediact** - absorbent with hydrocarbon digesting microbes.

### SITE CAPABILITIES BY BIOREM-HORIZON

- Construction / preparation of Remediation Pad / Site.
- Design & installation of Water Distribution System.
- Design & installation of Soil Water Evaporation Control System.
- Customs clearance and movement of cargo to Site Storage.
- Creation of Site Storage conditions and Space.
- Construction of Contaminated Soil holding and grading station.
- Creation of Site Blending Station.
- Construction of Water Storage Pond.
- Site Application such as Incoming Soil Distribution, Soil Turning.
- Testing and Removal of Soil.





## ENVIROLOGIC BIOBASED TECHNOLOGIES INC SPILLAWAY™ PRODUCTS

- **About SpillAway™:**  
In operation since 1993.
- **Manufacturing Capacity**  
40KL Liquid, 2MT Powder / day  
Can remediate **12.5Mill CUM** of Soil / Sludge per year
- **Product range covers:**  
Deep soil & water remediation.  
Off-shore bio-remedial cleaner.  
Special products for Oil Drilling.  
Absorbents for soil & water.

## WHY SPILLAWAY™ PRODUCTS...

- Microbes used are in an active preparation, ready to be used.
- Requires no special solutions, no special mixing and no waiting period before application.
- Simple addition of water (salt or fresh) activates the products.
- Requires very little training of personnel.
- All these factors translate into cost savings for the user.

## SPILLAWAY™ PRODUCTS

1. **HC Series** - bio-remediation of soil & ground water HC contamination.
2. **Remediact (Liq/Dry)** - A natural absorbent used for remediation of soils.
3. **OFM-500** - treat & clean crude oil and its by-products on hard surfaces.
4. **RigWash** - Off-Shore -Marine grade cleaner & degreaser for hard surface.
5. **Fleetkleen** - driveway, concrete floors, metal grating, any solid surface.
6. **JackHammer** - softens, dissolves and removes Tar & Asphalt.
7. **PartsWasher** - aqueous product to clean & degrease parts.
8. **OWS-200** - Microbial-enzymatic agent for Oil Water Separator.
9. **SpillAway+** - commercial & industrial, food processing & packaging.
10. **Bio-W** - floating absorbent to control hydrocarbons floating on water.

## TYCO CASE STUDY

- In June 2006, EarthTech (a member of Tyco) undertook bio-remedial clean-up of hydro-carbon contaminated site in Hungary.
- TPH levels were in excess of 300,000 mg/kg in parts.
- The project was completed in September 2006 as a complete success, in less than 120 days.
- On 28-Sep-06,  
TPH 4,045 mg/kg,  
PAH 2.6 mg/kg.

### Case Study

Tyco Earth Tech - Soil Bioremediation

**Summary:**

In June 2006 EarthTech (a member of the Tyco group of companies) undertook the bioremedial clean-up treatment of hydrocarbon contaminated muddy gravel at one of their sites in Hungary. The muddy gravel was contaminated with TPH levels in excess of 300,000 mg/kg in parts and was a stern test for the feasibility of bioremediation within the region.

The project was undertaken using SpillAway Brands™ products and concluded in September 2006 as a complete success, in less than 120 days, including an initial 80 day test period during which time only 50% of the total volume of contaminated soil was treated (the remaining volume being bioremediated within just 40 days).

**Description of the treatment:**

**Task:** Bioremediation of contaminated muddy gravel on site.

**Contamination profile:** Ex situ contaminated muddy gravel laid in a 4000 m² basin, coated with soil.

**Volume to be treated:** c.400m³

**Initial Soil Analysis (Day 1):**

Sample No.	Sample Type	TPH (mg/kg)	Laboratory analysis % PAHs (mg/kg)	Dry Matter %
S-1	Composite	310,000	5,198	44.9
S-2	Composite	250,000	888	40.8

**Treatment procedure:**

**Step 1: Feasibility Test (80%)**

Initially, an area of 400m² was isolated within the project basin and contained by a gravel wall and 40m³ of contaminated muddy gravel was treated. This test area was filled up to a level of 20cm with water and a pre diluted mixture of Liquid Remedact™ and FOC-300™ and increased oxygen circulation was assured through aeration.

Monitoring began on day 30 after initial treatment and showed a great reduction in TPH levels.

**Soil Analysis Day 30:**

Sample No.	Sample Type	TPH (mg/kg)	Laboratory analysis TPH (mg/kg)	Dry Matter %	
S-3	Composite	CA-10 C13-45	2880 95,400	99,200	62.9
S-4	Composite	CA-10 C13-45	900 35,350	34,300	66.8



## KUWAIT KOC SOIL SAMPLE TESTING

- Soil samples from South Zone - 2; Medium L1 (ML1) is very loose/ sandy, relatively easy to work with, and not extremely compact were received. Sample Medium L1 appear to best represent bulk of the volumes (TPH <5%) available at Site, and was selected for detailed analysis and lab scale validation trial.
- **Initial un-treated sample:**
- Date of Report - 17-Nov-2021.
- 9071B (HEM) Oil and Grease - 25000 ppm or 2.5%.
- **Remediated sample after 60days:**
- Date of Report - 11-Jan-2022.
- 9071B (HEM) Oil and Grease - 5000 ppm or **0.5%**.
- **Conclusions:**  
Medium L1 or Dry Oil Lake L1, can be treated by standard single step process.  
Observed reduction from 2.5% to 0.5%, or 80% reduction in 60days is on expected lines.

## PERIOD OF REMEDIATION

- Time taken for remediation is 180days from the date of first application. Though the remedial process begins immediately on application, some hydrocarbons may take longer than other.
- The typical Rate of Reduction expected is as under:

90 days **50%**

135 days **75%**

180 days  
**TARGET LEVELS ACHIEVED**

- Preparatory work including documentation, Pilot Testing, imports and infrastructure creation will be extra.

## SLUDGE REMEDIATION

### Process of Remediation:

- Prepare Pits with impermeable Liner & move the measured or weighed-in quantity of Sludge into the Pits for start of Remediation.
- Apply activated degrader, DE-OIL-IT Super Concentrate or Jack Hammer - Tar & Asphalt remover, along with activated OFM-500.
- Sludge breaks down and Liquefies.
- HC Plus or HC 300 kits are activated by adding water. Aerate the pond regularly using compressed air.
- Test at 2 week intervals.
- Reduction Rate expected.

60 days **60%**

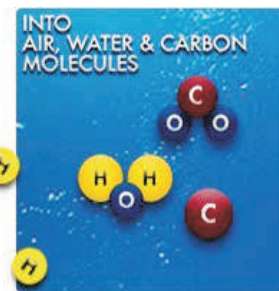
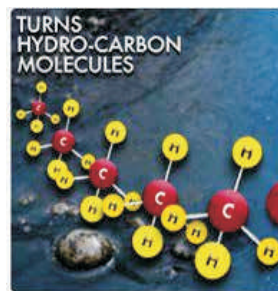
90 days **75%**

180 days  
**TARGET LEVELS**

# DE-OIL-IT

## THE WORDS'S SURVIVAL DEPENDS ON THE NATURAL CYCLE OF DECOMPOSITION

- Oil will not decompose naturally.
- HC molecules kill natural bacteria on contact, preventing the breakdown process needed for decomposition to occur.
- DE-OIL-IT has the unique ability to disarm these toxic molecules rendering them to be bio-available, Earth's natural bacteria then digests them safely.
- If indigenous microbial populations are not enough to degrade the contaminants, then we bio-augment by application of beneficial microbes.



## HOW DOES IT WORK:

- The heart of this new chemistry which is the key to DE-OIL-IT is the technology used to develop a "colloidal micelle."
- The micelle has a hydrophilic (water seeking) pole and a hydrophobic (water repelling) pole.
- The hydrophobic poles attract each other, thus forming the interior of the micelle.
- The hydrophilic poles form a tough outer surface.
- When a micelle of DE-OIL-IT comes in contact with a hydrocarbon molecule, the center of micelle bonds to similar hydrophobic hydrocarbon. It disrupts the attraction to other hydrocarbon molecules and/or to the surface.
- This action is replicated by billions other micelles breaking down HC.
- The molecular level emulsification process penetrates highly viscous HC, lifting them from the surface to which they adhere.

## FEATURES : Multiple use of DE-OIL-IT at various concentrations

- Rig wash – 4%.
- Well bore cleaner – 12%.
- Slick water surfactant – 12%.
- Water flood surfactant – 4%.
- Universal Cleaner/Degreaser – 1%.
- Coil tubing cleaner – 4%.
- Engine cleaner – 6%.
- Oil spill & driveway cleaner – 4%.
- Parts cleaner & shop cleaner – 1%.
- Flame out Fire Suppressor.





**AN UNIQUE ODOUR REMOVER FIRST TIME IN INDIA**

KILLS BACTERIA & VIRUSES | REMOVES ODOUR | SKIN SAFE | NO TOXIC CHEMICALS  
NON CORROSIVE | READY TO USE | WATER BASED DISINFECTANT

#### APPLICATION & USAGE



Wet Garbage



Pet Area



Smoking Area



Shoe Rack



Car



Public Toilets



Kids/Aadult Diaper



Washtoom & Toilet

#### COMMERCIAL USAGE



Restaurant



Hospital



Sport Complex



Corporate Office

**CLONON**

KILLS  
99.9%  
GERMS



#### HORIZON IS A SUPER DISTRIBUTOR

CLONON® - All Purpose Cleaner & Odour Remover is a revolutionary Disinfectant & Surface Sanitizer product for All Purpose cleaning and broad-spectrum Odour Remover. Clonon is manufactured by Dimple Chemicals & Services Pvt. Ltd. Pune, Maharashtra, India. Clonon All Purpose Cleaner & Odour Remover is used in the hospital for disinfecting of all rooms, Beds, Curtains, Toilets, Tables, Chairs, Operation Theatres, or any type of metal structure, leather structure or any type of wooden structure. CLONON is ideal for cleaning up Nanoparticles and disinfecting all types of surfaces with Germ Kill rate of 99.99% within 30 seconds. CLONON kills the Odour releasing Bacteria and effectively makes an Odour-free environment. This has been tested by International and FDA approved labs like TUV India Pvt Ltd (Division of TUV Nord) APT Testing and Research Private Ltd. CLONON does not leave stains on surfaces like Floors, Wooden structure, Steel Structure, Leather and fabric etc.

CLONON is water based disinfectant and contains a proprietary combination with major ingredients like Active Iodophor solution, Benzalkonium Chloride, Glutaraldehyde and others. CLONON does not contain any added fragrance and kills the Odour releasing bacteria. After CLONON is sprayed on the desired surface, the bad Odour is completely eliminated and the surface or area remains Odour free till any new substance that generates bad Odour is added.

#### Benefits of CLONON

- Water based disinfectant.
- Non Corrosive.
- Non Flammable.
- Non Sticky.
- No added fragrance.
- Debonds Nano Particles from Surface.





## Section-IV

### Company Registration & Certifications

  
संयुक्त गणराज्य

प्रारूप आई. आर.  
Form. I. R.  
निगमन का प्रमाण - पत्र  
CERTIFICATE OF INCORPORATION

C.I.N. 

U
---

7	4	1	4	0
---	---	---	---	---

P	N
---	---

2	0	0	3
---	---	---	---

P	T	C
---	---	---

0	1	8	4	8	9
---	---	---	---	---	---

मैं एतद्वारा प्रमाणित करता हूँ की आज \_\_\_\_\_

\_\_\_\_\_ (कम्पनी अधिनियम १९५६ का सं १ ) के अधिन निगमित की गई है और  
वह कम्पनी परिसिमीत है ।

I hereby certify that KSHITIJ ASSIGNMENTS PRIVATE LIMITED is this day  
Incorporated under the companies Act, 1956 (No. 1 of 1956) and that the company is  
limited.

मेरे हस्ताक्षर से आज ता. \_\_\_\_\_ को दिया गया ।

Given under my hand at PUNE this TWENTYTHIRD Day  
Of OCTOBER Two Thousand Three.



  
(R. V. DANI)  
कम्पनीयों का रजिस्ट्रार, पुणे.  
REGISTRAR OF COMPANIES, PUNE.

2003/00411



Reg.No.:-

C.I.N.

U 7 4 1 4 0 P N 2 0 0 3 P T C 0 1 8 4 8 9

**FRESH CERTIFICATE OF INCORPORATION  
CONSEQUENT ON CHANGE OF NAME**

**IN THE OFFICE OF THE REGISTRAR OF COMPANIES, MAHARACHTRA  
PUNE**

In the matter of **KSHITIJ ASSIGNMENTS PRIVATE LIMITED**

I hereby approve and signify in writing under Section 21 of the Companies Act, 1956 (Act of 1956) read with the Government of India, Ministry of Company Affairs, Notification No. G.S.R. 507E dated the 24<sup>th</sup> June 1985 the change of name of the Company.

From: **KSHITIJ ASSIGNMENTS PRIVATE LIMITED**

To : **HORIZON ASSIGNMENTS (INDIA) PRIVATE LIMITED**

and I hereby certify that **KSHITIJ ASSIGNMENTS PRIVATE LIMITED**

which was originally

Incorporated on **TWENTYTHIRD** Day of **OCTOBER, 2003** under the

Company Act, 1956 and under the name **KSHITIJ ASSIGNMENTS PRIVATE LIMITED**

having duly passed

the necessary resolution in terms of Section 21/22(1)(a)/22(1)(b) of the Companies Act, 1956

The name of the said company is the day changed to **HORIZON ASSIGNMENTS**

**(INDIA) PRIVATE LIMITED**

and this

certificate is issued pursuant to section 23(1) of the said Act.

Given under my hand at **PUNE** this **TWENTYFIFTH**

Day

**FEBRUARY**

Two Thousand Five.



(S. M. SAINDANE)

ASSTT. REGISTRAR OF COMPANIES, PUNE.



[Print](#)[Print with Annexure](#)[Home](#)

भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small and Medium Enterprises

**MSME**  
सूक्ष्म, लघु एवं मध्यम उद्यम  
MICRO, SMALL & MEDIUM ENTERPRISES

## UDYAM REGISTRATION CERTIFICATE



UDYAM REGISTRATION NUMBER	UDYAM-MH-26-0111695																							
NAME OF ENTERPRISE	M/S HORIZON ASSIGNMENTS INDIA PVT LTD																							
TYPE OF ENTERPRISE*	MICRO																							
MAJOR ACTIVITY	SERVICES																							
SOCIAL CATEGORY OF ENTREPRENEUR	GENERAL																							
NAME OF UNIT(S)	<table><tr><td>S.No.</td><td colspan="3">Name of Unit(s)</td></tr><tr><td>1</td><td colspan="3">Corporate Office</td></tr></table>				S.No.	Name of Unit(s)			1	Corporate Office														
S.No.	Name of Unit(s)																							
1	Corporate Office																							
OFFICIAL ADDRESS OF ENTERPRISE	<table><tr><td>Flat/Door/Block No.</td><td>6</td><td>Name of Premises/ Building</td><td>Shakti Apartments</td></tr><tr><td>Village/Town</td><td>Aundh</td><td>Block</td><td>Above Bank of Maharashtra</td></tr><tr><td>Road/Street/Lane</td><td>D P Road</td><td>City</td><td>Pune</td></tr><tr><td>State</td><td>MAHARASHTRA</td><td>District</td><td>PUNE, Pin 411007</td></tr><tr><td>Mobile</td><td>9890469111</td><td>Email:</td><td>navneetmittal@horizon-groupindia.com</td></tr></table>				Flat/Door/Block No.	6	Name of Premises/ Building	Shakti Apartments	Village/Town	Aundh	Block	Above Bank of Maharashtra	Road/Street/Lane	D P Road	City	Pune	State	MAHARASHTRA	District	PUNE, Pin 411007	Mobile	9890469111	Email:	navneetmittal@horizon-groupindia.com
Flat/Door/Block No.	6	Name of Premises/ Building	Shakti Apartments																					
Village/Town	Aundh	Block	Above Bank of Maharashtra																					
Road/Street/Lane	D P Road	City	Pune																					
State	MAHARASHTRA	District	PUNE, Pin 411007																					
Mobile	9890469111	Email:	navneetmittal@horizon-groupindia.com																					
DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE	23/10/2003																							
DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS																								
NATIONAL INDUSTRY CLASSIFICATION CODE(S)	<table><tr><td>S.No.</td><td>NIC 2 Digit</td><td>NIC 4 Digit</td><td>NIC 5 Digit</td><td>Activity</td></tr><tr><td>1</td><td>80 - Security and investigation activities</td><td>8020 - Security systems service activities</td><td>80200 - Security systems service activities</td><td>Services</td></tr></table>				S.No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity	1	80 - Security and investigation activities	8020 - Security systems service activities	80200 - Security systems service activities	Services										
S.No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity																				
1	80 - Security and investigation activities	8020 - Security systems service activities	80200 - Security systems service activities	Services																				
DATE OF UDYAM REGISTRATION	30/05/2021																							

\* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the Mo MSME.

Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing:- 02/06/2021

For any assistance, you may contact:

1. District Industries Centre: PUNE ( MAHARASHTRA )

2. MSME-DI: MUMBAI ( MAHARASHTRA )

Visit : [www.msme.gov.in](http://www.msme.gov.in) ; [www.dcmsme.gov.in](http://www.dcmsme.gov.in) ; [www.champions.gov.in](http://www.champions.gov.in)



Follow us @minmsme & @msmechampions



**BE A  
CHAMPION**  
with the  
Ministry of  
**MSME**





# Certificate of Registration

This certificate has been awarded to

**Horizon Assignments (India) Pvt. Ltd.**

0301, Stilt Floor 3, Tower B6, Blue Ridge Township, Hinjewadi Phase 1, Pune,  
Maharashtra, 411057, India

in recognition of the organization's Quality Management System which complies with

**ISO 9001:2015**

The scope of activities covered by this certificate is defined below

**Mine Action, Provision of EOD's, Trading of Engineering Goods and Services  
Pertaining to Mine Action**

Certificate Number: 42641/A/0001/UK/En

A certificate number (ENR) is entered on the cover of a register and is used by the Registrar of Systems (URS) to identify the Certificate holder. A certificate number (ENR) is entered on the cover of a register and is used by the Registrar of Systems (URS) to identify the Certificate holder. A certificate number (ENR) is entered on the cover of a register and is used by the Registrar of Systems (URS) to identify the Certificate holder.

Date of Issue of Certification Cycle	Issue Number	Certificate Expiry Date	Certification Cycle
19 November 2022	6	12 November 2025	5
Revision Date	Revision Number	Original Certificate Issue Date	Scheme Number
19 November 2022	0	13 November 2010	n/a

For detailed explanation for the data fields above, refer to <http://www.urs-holdings.com/logos-and-regulations>

Issued by

On behalf of the Schemes Manager



Where it is not clear as to the authority of this certificate, please do not hesitate to contact the Head Office of the Group at [www.urs-holdings.com](http://www.urs-holdings.com).  
URS is a member of United Registrar of Systems (URS) Limited, 4 Hinton Road, Bournemouth, BH1 2BE, UK. Company Registration no: 5386661

**Company Name** : **HORIZON ASSIGNMENTS (INDIA) PVT. LTD.**

**Registered & Corporate Address** : Tower B6, Stilt Floor 3, Flat 0301, Blueridge Township, Hinjewadi Phase 1, Pune- 411057.

**Branch Address Kuwait** : Unit No.33,34,36, Floor 09, B-Building Al Muhunna Towers, Street III, Block 1, Mahaboula, Kuwait.

**Telephone No. (India)** : +91 8459273764

**Telephone No. (Kuwait)** : +965 60025865

**Email ID** : [contact@horizon-groupindia.com](mailto:contact@horizon-groupindia.com)

**Primary Contact** : Col Navneet M P Mittal (Retd.)  
Chairman  
Mobile: +91 9890469111  
Mobile: +965 66472219

**Email ID** : [navneetmittal@horizon-groupindia.com](mailto:navneetmittal@horizon-groupindia.com)





STATE OF KUWAIT  
MINISTRY OF DEFENCE



دولة الكويت  
وزارة الدفاع

الاشارة: 27241160153  
التاريخ: 2022/12/20

المحترمين

السادة / شركة مطلع الخليج للتجارة العامة

تحية طيبة وبعد

الموضوع : استعلام عن شركة مسجلة

بالإشارة الى الموضوع المذكور أعلاه ، والى كتابكم المؤرخ  
في 2022/12/14 .

نحيطكم علما بأن الشركة مسجلة لعام 2022 لدى وزارة الدفاع -إدارة  
التجهيز المحلي مراقبة تصنيف وتأهيل الشركات مصنفة تحت نشاط أجهزة أمنية  
كاشف الغام ومتفجرات ومسح وتنظيف الألغام الأرضية وكشف الذخائر غير  
المنفجرة والاستخراج والتخلص والبناء ، مرفق شهادة قيد وكالة مع الشركة  
HORIZON ASSIGNMENTS INDIA PRIVATE LIMITED  
برقم تسجيل 2338.

علما بأن كتابنا هذا لا تترتب عليه أية التزامات مالية أو قانونية اتجاه الوزارة .

وتفضلوا بقبول فائق الاحترام

وكيل الوزارة  
وكيل الوزارة المساعد للتجهيز المحلي بالتكليف  
د. عبير صلاح الدين الايوبي







مركز الترجمة  
NEWKUNION



وزارة التجارة والصناعة



## ادارة السجل التجاري - شهادة قيد وكالة

الكويت في : 01/15/2022

بعد الاطلاع على قانون تنظيم الوكالات التجارية رقم 13 لسنة 2016 الصادر بتاريخ 6 مارس سنة 2016 وبعد استيفاء جميع البيانات والرسوم المطلوبة بموجب القانون آنف الذكر تم تسجيل

تاريخ القيد : 09/01/2022

رقم القيد : 2022/001904

الي : 28/11/2026

للمدة من : 29/11/2021

المادة / شركة مطلع الخليج للتجارة العامة

وكيلا في الكويت لي : شركة هورايزن اسايمنتس (الهند) الخاصة المحدودة

HORIZON ASSIGNMENTS INDIA PRIVATE LIMITED

و الصادر منتجاته باسم :

مسح و تنظيف الالغام الارضية و كشف الذخائر غير المتفجرة و الاستخراج و التخلص و البناء - شركة هورايزن اسايمنتس (الهند) الخاصة المحدودة

LAND MINE CLEARANCE , SURVEY UNEXPLODED ORDNANCE DETECTION RETRIEVAL  
AND DISPOSAL CONSTRUCTION



ملاحظات :

مستند الكتروني لا يحتاج الى ختم او توقيع

تاريخ الطباعة : 1/15/2022

رقم الصفحة : 1 / 1

وزارة التجارة والصناعة



## ادارة السجل التجاري - شهادة قيد وكالة

الكويت في : 01/15/2022

بعد الاطلاع على قانون تنظيم الوكالات التجارية رقم 13 لسنة 2016 الصادر بتاريخ 6 مارس سنة 2016 وبعد استيفاء جميع البيانات والرسوم المطلوبة بموجب القانون آنف الذكر تم تسجيل

تاريخ القيد : 09/01/2022

رقم القيد : 2022/001904

الي : 28/11/2026

للمدة من : 29/11/2021

السادة / شركة مطلع الخليج للتجارة العامة

وكيلا في الكويت لي : شركة هورايزن اسايمنتس (الهند) الخاصة المحدودة

HORIZON ASSIGNMENTS INDIA PRIVATE LIMITED

و الصادر منتجاتة بأسم :

مسح و تنظيف الألغام الأرضية و كشف النخائر غير المتفجرة و الاستخراج و التخلص و البناء - شركة هورايزن اسايمنتس (الهند) الخاصة المحدودة

LAND MINE CLEARANCE , SURVEY UNEXPLODED ORDNANCE DETECTION RETRIEVAL  
AND DISPOSAL CONSTRUCTION

وزارة التجارة والصناعة  
MINISTRY OF COMMERCE AND INDUSTRY

ملاحظات :



مستند الكتروني لا يحتاج الي ختم او توقيع

تاريخ الطباعة: 1/15/2022

رقم الصفحة: 1 / 1

وزارة التجارة والصناعة

**Choice Translation Center**

(Certified Translation)



**مركز الاختيار الذهبي للترجمة**

(ترجمة معتمدة)

**State of Kuwait**

**Ministry of Commerce & Industry**

**Civil Registration Department – Agency Registration Certificate**

Kuwait, dated 15/01/2022

After reviewing the commercial agencies regulation law No. 13/2016 issued on 6 March 2016 and after satisfying all the data and required fees as per the above-mentioned law,

Registration No. : 001904/2022 Date of registration : 09/01/2022

For a period from : 29/11/2021 Until : 28/11/2026

**M/s Matla Al Khaleej Gen. Trading Company**

Has been registered in Kuwait as an agent of :

**HORIZON ASSIGNMENTS INDIA PRIVATE LIMITED**

With its activities are summarized as :

Land mine clearance, survey unexploded ordnance detection retrieval and disposal & construction – Horizon Assignments India Private Limited.

**Remarks :**

*Digital document and it doesn't need seal or signature*

Ministry of Commerce and Industry

Date of print : 15/01/2022



الفحيحيل - بناية سوق الاسرة (مقابل جرائد هايبر) الدور الارضي - تلفون ، ٢٣٩٢٥٩٩٥ - فاكس ، ٢٣٩٢٥٩٩٥ - ترخيص رقم ، ٩٤٤ / ٢٠٠٠

Fahaheel - Souk Al-Osra Bldg. (Opp. Grand Hyper) Ground Floor - License No. T/944/2000

Tel. : 23925995 - Fax : 23925995 - E-mail : choicekuwait@yahoo.com





Date: 04 NOV 2021

Project Ref. No.: 21056720- KOC-ENS-LET-00071

KOC Ref. No.: SRP-II / 1523 / 2021

JV/C of Enshaat Al-Sayer General Trading & Contracting Co. WLL with Water and Soil Remediation S.R.L.,

Qibla, Block 14, Fahad Al-Salem Street, Panasonic Tower, 19th Floor, Kuwait City

E-mail address: j.yazji@enshaat.com

: info@wsr.it

Fax No.: 965-22279450; Tel. No. +965-22279444

Attention: Mr. Suhail Younis  
Contractor's Representative

Subject: CONTRACT NO. 21056720

	For information
✓	No Response Required / Action Only
	Response / Action Required

**ENVIRONMENT REHABILITATION PROGRAM UNDER UN LEGISLATION FOR INDEMNIFICATION**

**South Kuwait Excavation Transportation and Remediation (SKETR) Project - Zone 3**

**SUBCONTRACTOR APPROVAL REQUEST PROPOSAL FOR UXO SURVEY AND CLEARANCE WORKS**

- Reference: [1] Company transmittal # 21056720-KOC-ENS-TRE-00003 dated 26 October 2021  
[2] Contractor letter # 21056720-ENS-KOC-LET-00063 dated 25 October 2021  
[3] Company letter # 21056720-KOC-ENS-LET-00044 dated 17 October 2021  
[4] Contractor letter # 21056720-ENS-KOC-LET-00036 dated 03 October 2021

With reference to the subject and Contractor's request for approval of the Subcontractor for UXO Survey and Clearance Works enclosed within Contractor's letter ref# [2] & [4], Company's response is as follows:

Name of Proposed Subcontractor	Scope of Work	Company Response
Horizon Assignments (India) Pvt Ltd.	UXO Survey and Clearance Works	Approved

The approved Subcontractor shall be under the control of the Contractor and shall comply with relevant contractual provisions including but not limited to Clause 2.0 of Contract Specification (CS) and Clause 4 & 5 of the General Conditions of Contract (GCC) as further amendment under Clause 17.1.11 of CS, wherein it is agreed and understood that such subcontracting shall not create any contractual relationship between any Subcontractor and the Company or create any obligation on the part of the Company to any Subcontractor of any tier or to their employees, representatives.

## Section-IV

### CAPT - Central Agency for Public Tenders

	<b>شهادة تسجيل</b> <b>Certification of Registration</b>	
<b>Service Providers</b> <b>Foreign</b>		<b>مقدمي خدمات</b> <b>أجنبي</b>
<b>Issue Date:</b> 2022-08-29		<b>تاريخ الإصدار:</b>
<b>Expiration Date:</b> 2023-08-28		<b>تاريخ الانتهاء:</b>
The Central Agency for Public Tenders certifies that:		<b>يشهد الجهاز المركزي للمناقصات العامة بأن:</b>
<b>Horizon Assignments (India) Private Limited</b>		
<b>Country:</b> India		<b>البلد:</b>
<b>Registered at the agency under No.:</b> 27908		<b>مسجلة لدى الجهاز تحت رقم:</b>
<b>Commercial/ Professional License No.:</b> ()		<b>رقم السجل التجاري/المهني:</b>
<div style="text-align: center;"> <b>و الختم والتوقيع</b> <b>Signature &amp; Stamp</b></div>		
<small>تعتبر هذه الشهادة مثقفة في حال انتهاء صلاحية التسجيل لدى الجهاز أو الترخيص التجاري/المهني الصادر عن الجهة المختصة. This certificate is deemed void when the registration status at the agency or the commercial/ professional license issued by relevant the authorities no longer valid.</small>		
<small>تاريخ طباعة: 13/09/2022 16:58:46</small>		

**Qualification with Kuwait Oil Company (KOC) :**

**Category 77A EOD Services for Unexploded Ordnance (UXO) Detection, Retrieval & Disposal.**

**Qualification with Kuwait Ministry of Defense :**

**Category 77B Unexploded Ordnance (UXO) Detection Services.**

**United Nation**

**Accredited with UNOPS for MINE ACTION.**

## Section-V

### Operational Structure





## Section-V

### Organization Structure

The organization is based on retired Indian soldiers who have knowledge of handling mines and UXOs. Reorientation training is carried out to familiarise them with humanitarian demining. A total of 250 deminers have been trained to have good experience of handling various types of mines. They also have practical experience in the destruction of mines and UXOs.

#### BOARD OF DIRECTOR



**Col Navneet MP Mittal**  
(Retd) BSc, B Tech, MSc, MMS  
**Chairman**

Colonel Navneet MP Mittal, is a retired Indian Army officer with more than 38 years of combat, corporate and NGO experience. His major qualifications include degree of Bachelor of Technology and Masters of Management Science. While serving in the Army, he has been awarded for distinguished service on four occasions, and has held senior level positions in operations, HR, logistics, training as well as major construction activities.

He has been instructor at the Indian Military Academy and College of Military Engineering. International experience includes Chief Humanitarian Officer with United Nations Interim Force in Lebanon and Director Operations of Horizon Group, an ISO 9001-2015, UN accredited organization, functioning globally in areas of post conflict environment management, wherein he has planned and supervised 18 humanitarian demining projects in Sri Lanka, Kuwait and attended various UN conferences on the subject.

He has successfully help conceive and operate number of NGOs and business enterprises including a green energy initiative.

## Section-V

### Organization Structure

#### BOARD OF DIRECTOR



**Mr. Kelvin Tan**  
Director of Operations

Our Director of Operations, Mr. Kelvin Tan, comes with a prolific 22 years of professional experience in project management, administrative accountability and supply management within Explosive Ordnance Disposal, Improvised Explosive Device Disposal & Construction-related fields.

He found his passion for construction, facility, and project management during his tertiary education. He also holds a dignified 10 years of military experience with the Singapore Armed Forces in the Combat Engineer Formation, where he has operated within the Landmine Warfare, Construction Management as well as Explosive Ordnance Disposal environment.

Mr. Tan has also acquired significant experience in humanitarian efforts which includes the 2004 Tsunami Humanitarian Assistance & Disaster Relief (HADR) efforts in Aceh, Indonesia, National Level Event Security Bomb Sweeps, and the Overseas Protection Party for Ministers.

In the last 12 years of his commercial experience, he has held several key positions as EOD Operations Manager, and EOD Project Manager and is now the Director of Operations at Horizon Group, ensuring the delivery of all projects without any safety incidents.

With a master's degree in human resources & management, Mr. Nadeem Saleem has rich professional experience of 18 years in the field of human resource management. During these years, he has worked and helped companies recruit for short-term and long-term projects in Kuwait, thus helping them successfully achieve project goals on time.

In the past 18 years, Mr. Nadeem has recruited an overall manpower of around 12000 people across the world, including India, Nepal, Bangladesh, Sri Lanka, USA, Canada, Tunisia, Cambodia, Pakistan, Saudi, Egypt, Singapore, Malaysia, Sierra Leone, Mozambique, Zimbabwe, and South Africa.



**Mr. Nadeem Saleem**  
Director HR,  
Admin and Logistics

## Section-V

### Organization Structure

#### BOARD OF DIRECTOR



**Ms. Eishna Mittal**  
Director of Finance

Coming from an enriching army upbringing, Ms. Eishna is currently working as the Director of Finance at Horizon. She holds a bachelor's degree in business management (IT) and has since received a certification in Project Planning and Management. She began her career as the Manager & Director at EFS Sun Cargo Private Limited and

since taking on various key management roles in multiple companies including the likes of Horizon Assignments (India) Private Limited and Arnima Ventures LLP.

She carries rich experience working in diverse critical departments including Logistics and Freight Forwarding, Humanitarian & Commercial Mine Action, Solar & LED Lights Manufacturing, and C-IED training equipment manufacturing. She has also significantly contributed towards various Philanthropic and charitable NGO projects and is also the founder of Human Library Pune, which is

under the aegis of Human Library Organization, Copenhagen. Currently, she holds the position of Trustee at the Global Harmony Trust.

Mrs. Arnima Mittal, is the Founder & Director of Establishment at the Horizon Group. With a rich educational background consisting of the degrees of M.Sc. & B.Ed., she is still continuing to enrich her learning journey by pursuing a Doctorate in Chemistry. With a collective work experience of 25 years, she is a talented writer and journalist and is also very proactive in social services.



**Mrs. Arnima Mittal**  
Director of Establishment



## Section-VI

### Resources - Manpower

#### The Strength of the Organization

At Horizon assignment India Pvt. Ltd. the key to success is the focus on Employee Skills Development Programmes:

Deminers are of two categories; Expatriate deminers and National deminers. Expatriate deminers are retired soldiers from the Indian Army and International Armed Forces who possess experience in military demining. They are given four weeks of reorientation training in Mine Action. Additional two weeks Of “On-the-job training” is given under the supervision of director/project managers and other experienced staff.

National deminers are selected in the country. They are given four weeks of training in Mine Action and additional two weeks on-the-job training under the supervision of experienced staff.

Horizon Manpower consists of nationals from 11 countries (India, Singapore, Sri Lanka (female Deminers), Namibia, Cambodia, Tunisia, Sierra Leon, Mozambique, Kuwait, Egypt, and Zimbabwe).

**Field Staff**  
163

**Head Quarter  
Staff - 26**

**Others**  
19

**Direct Staff**  
183

**Indirect Staff**  
26



## Section-VI

### Resources - Equipments



**Armoured  
Backhoe-07**



**Armoured  
Dozer-03**



**Ambulance-01**



**Armoured  
Excavator-07**



**Armoured  
Front Loader-07**

Horizon works on a cost optimization model and has the capacity to increase resources at any given point in time.



**SUV-04**



**Sedan-02**



**13 Seater-14**



**Pick Up -12**

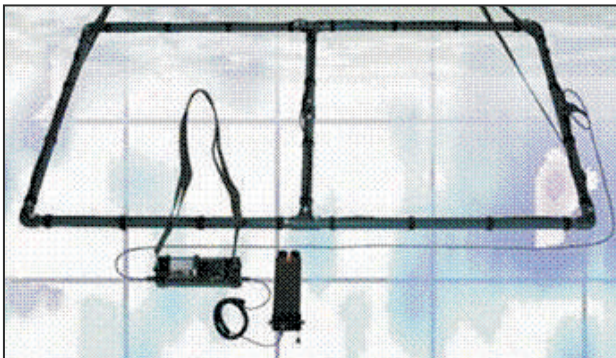
### Resources - Field Equipments owned by Horizon

ITEM (Make & Model)	Quantity
Ground Preparation Machine	20
Water Browser	6
LBA Visor Band	66
LBA Helmet	14
LBA Vest	28
BFR Demining Boots	114
Star Wire Demining Vest	16
Scheibel Mine Detector ATMD	12
Deep Search Metal Detector MK-01	3
Mine Detector DS1-M	4
Deto Safe BPJ	6
Prodder	60
Envotech body protection with Helmet Visor	143

ITEM (Make & Model)	Quantity
JI Matrice 300 RTK Drone	1(Set)
UPX 740M Large Loop - Set	15
Quest Q20 Metal Detector	32
Mine lab Scanning device	8
EM 61 MK 2(HP)	3
EM 63 Towed Array	1
EM 61S	1
UP EX740 LLM Detector	8
F3 Mine Lab Detector	18
Schonstedt GA 72C Detector	110
Garmin GPS	3
DGPS Trimble	9
Search Head for scheibel Mine Detector ATMD	3

## Section-VI

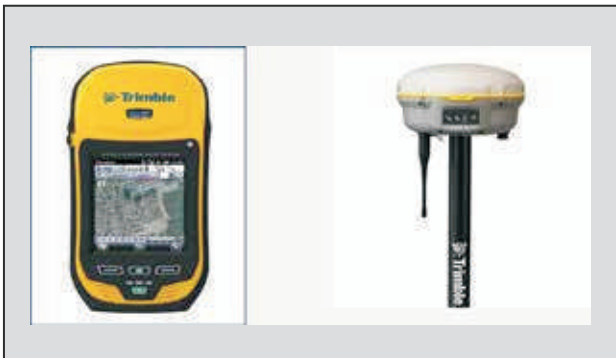
### Resources - Mine Action Equipment



HORIZON has the capability to use UPEX 740 M Large Loop Metal Detector (LLMD) for Geophysical survey of dry area and for obtaining digital geophysical mapping (DGM).



HORIZON also uses the EPAS® software to improve productivity, efficiency, and quality in geophysical surveys and ERW clearance operations.



HORIZON has the capability to use the Trimble Geo Explorer 6000 XT/XH Differential Global Positioning System (DGPS).

It is used with the Terra Sync Professional and GPS Pathfinder Software.



This handheld detector is used by HORIZON as an aid to the EOD teams during survey, marking and intrusive investigations.



## Section-VI

### Resources - Mine Action Equipment



HORIZON 's EOD technicians wear PPE to protect the body from head to toe. Helmets with protective visor, fragment-proof body armor and demining shoes. All PPE comply with the relevant BS or ANSI or equivalent International Standards concerning the design or manufacture of the PPE with regards to health and safety.



The machines will be utilised to expose the position of the UXOs. The machine's cabin and engine portion is protected against blast.



Horizon specializes in providing UXO, topographical ,bathymetric, sub-surface survey and other mapping services using cutting-edge drone technology. Horizon magnetometers detect changes in the Earth's magnetic field, which help locate UXOs and other buried objects.

- Our team can create a map of the magnetic anomalies in an area, allowing for the identification of potential UXO locations.
- Horizon has a wide array of sensors like echo sounders, LiDAR, magnetometers, and electromagnetic sensors.
- We provide High-quality data and detailed imagery.
- Survey underwater topography and bathymetry, making them ideal for coastal engineering, oceanographic research, and hydrographic surveys.

## Section-VI

### Resources - Mine Action Equipment



EM61 MK2 metal detector  
HORIZON has the capability to use EM- 61 MK2A for Geophysical survey of dry area and for obtaining digital geophysical mapping (DGM). EM61-MK2A HP Metal Detector is a high power, high sensitivity metal detector suitable for applications in the detection of both ferrous and non-ferrous metal.  
HORIZON has the capability to use this equipment in the manual as well as the towed array mode.



Employed for Battle Area Clearance and Target investigation.



## Section-VII

### LIST OF BANKERS



Bank In India  
State Bank of India,  
**CURRENCY INR**

Bank In India  
Bank of Maharashtra  
**CURRENCY INR**



बँक ऑफ महाराष्ट्र  
Bank of Maharashtra  
सहकारिता ही हमारी शक्ति है



Bank in Kuwait  
National Bank of Kuwait  
**CURRENCY KWD**

Bank in Kuwait  
National Bank of Kuwait  
**CURRENCY USD**





## Section-VIII

### Past Projects & Experience

**Project name and country:** HIG 1 to HIG 7 Humanitarian Mine Action Projects in Sri Lanka

**Name of client:** Government of India

**Type of work performed and year of completion:** Humanitarian Demining, 2012

**Date of completion of delivery (as per contract):** From Aug '09 to Nov '12

**Date of completion of delivery (actual):** From Aug '09 to Nov '12

**Remarks indicating reasons for late delivery, if any:** Nil



**Project name and country:** Humanitarian Mine Action Project in

**Name of client:** Norwegian People's Aid

**Type of work performed and year of completion:** Humanitarian Demining, 2007

**Date of completion of delivery (as per contract):** From June '06 to March '07

**Date of completion of delivery (actual):** From June '06 to March '07

**Remarks indicating reasons for late delivery, if any:** Nil



**Project name and country:** Radiological Survey and Geophysical survey for UXO/EOD for Soil Remediation Project undertaken by The Energy and Resources Institute (TERI), India in South East Kuwait Fields of Kuwait Oil Company (KOC), Kuwait under Kuwait Environment Remediation Project funded by United Nations

**Name of client:** The Energy and Resources Institute, (TERI)

**Type of work performed and year of completion:** Geophysical Survey for UXO, Reacquisition and Intrusive Investigation of Anomalies, 2013.

**Date of completion of delivery (as per contract):** Aug 2012 to Oct 2013

**Date of completion of delivery (actual):** Aug 2012 to Oct 2013

**Remarks indicating reasons for late delivery, if any:** The contract was initially for three months, but being a pilot project, the duration was extended, and the contract was amended to the actual duration it took to complete the work. Hence, contractually, there were no delays.



**Project name and country:** UXO Anomaly Avoidance Support for Soil Sampling Activity in South East Kuwait Oil Fields of Kuwait Oil Company (KOC) under AMEC under Kuwait Environmental Remediation Project funded by United Nations

**Name of client:** AMEC Kuwait Project Management and Contracting Company WLL

**Type of work performed and year of completion:** UXO Anomaly Avoidance Support 2014

**Date of completion of delivery (as per contract):** Nov 2014 to Dec 2014

**Date of completion of delivery (actual):** Nov 2014 to Dec 2014

**Remarks indicating reasons for late delivery, if any:** Nil

## Section-VIII

### Past Projects & Experience

**Project name and country:** UXO/EOD Construction Support to TERI, Kuwait

**Name of client:** The Energy and Resources Institute, (TERI)

**Type of work performed and year of completion:** UXO/EOD Construction Support. 2017

**Date of completion of delivery (as per contract):** Aug 2012 to March 2017

**Date of completion of delivery (actual):** Aug 2012 to March 2017

**Remarks indicating reasons for late delivery, if any:** Nil



**Project name and country:** UXO/EOD Construction Support to G S Engineering, Kuwait

**Name of client:** G S Engineering & Construction Corporation

**Type of work performed and year of completion:** UXO/EOD Construction Support. 2017

**Date of completion of delivery (as per contract):** May 2014 to April 2017

**Date of completion of delivery (actual):** May 2014 to April 2017

**Remarks indicating reasons for late delivery, if any:** Nil



**Project name and country:** UXO/EOD Construction Support to HERAAmbiental, Kuwait

**Name of client:** HERAAG Ambiental.

**Type of work performed and year of completion:** UXO/EOD Construction Support. 2018

**Date of completion of delivery (as per contract):** Sept 2016 to Apr 2018

**Date of completion of delivery (actual):** Sept 2016 to Apr 2018

**Remarks indicating reasons for late delivery, if any:** Nil



**Project name and country:** EOD/UXO Project for Reacquisition and Target Intrusive Investigation for HERAAG Ambiental Soil Remediation of Contaminated Features in Kuwait Oil Company's SEK Fields (Lot A) under Kuwait Environment Remediation Project funded by United Nations

**Name of client:** HERAAG Ambiental

**Type of work performed and year of completion:** EOD/UXO Project for Reacquisition and Target Investigation. 2017

**Date of completion of delivery (as per contract):** Oct 2016 to July 2017

**Date of completion of delivery (actual):** Oct 2016 to July 2017

**Remarks indicating reasons for late delivery, if any:** Nil

## Section-VIII

### Past Projects & Experience

**Project name and country:** EOD Support for UXO clearance work of Alghanim International at Kuwait Oil Company's North Kuwait and South Kuwait Oil Fields under Kuwait Environment Remediation Project funded by United Nations.

**Name of client:** Alghanim International

**Type of work performed and year of completion:** EOD Support of HORIZON experienced EODs for UXO/EOD clearance work. 2017

**Date of completion of delivery (as per contract):** March 2017 to May 2017

**Date of completion of delivery (actual):** March 2017 to Aug 2017

**Remarks indicating reasons for late delivery, if any:** Contract extension by Client



**Project name and country:** UXO/EOD Construction Support, Kuwait

**Name of client:** PIKA International Inc

**Type of work performed and year of completion:** UXO/EOD Construction Support. 2019

**Date of completion of delivery (as per contract):** Jan 2019 to March 2019

**Date of completion of delivery (actual):** Jan 2019 to May 2019

**Remarks indicating reasons for late delivery, if any:** Contract extension by Client



**Project name and country:** EOD Support for UXO clearance work of Explomo Technical Services Pte Ltd at Kuwait Oil Company's Oil Fields under Kuwait Environment Remediation Project funded by United Nations.

**Name of client:** Explomo Technical Services Pte Ltd

**Type of work performed and year of completion:** EOD Support of HORIZON experienced EODs for UXO/EOD clearance work. April 2017 till 31 May 2020.

**Date of completion of delivery (as per contract):** April 2017 to May 2020

**Date of completion of delivery (actual):** April 2017 to May 2020

**Remarks indicating reasons for late delivery, if any:** Nil



**Project name and country:** Mine and Ordnance Clearance & Disposal Works (Azerbaijan – Fuzuli)

**Name of client:** ALTAY YAZILIM SAVUNMA ENDUSTRIYEL VE TICARET A.S

**Type of work performed and year of completion:** Demining, 2021

**Date of completion of delivery (as per contract):** March 2021 to Sept. 2021

**Date of completion of delivery (actual):** March 2021 to Nov 2021

**Remarks indicating reasons for late delivery, if any:** Contract extension by Client



## Section-VIII

### Past Projects & Experience

**Project name and country:** The UXO Clearance Works component of South Kuwait Soil Excavation, Transportation & Remediation Project (SKETR) Zone 3 in the State of Kuwait

**Name of client:** ENSHAAT AL SAYER GENERAL TRADING AND CONTRACTING COMPANY

**Type of work performed and year of completion:** UXO/EOD Survey and Clearance

**Date of completion of delivery (as per contract):** Oct 2021 to Jan 2026

**Date of completion of delivery (actual):** Project is ongoing

**Remarks indicating reasons for late delivery, if any:** Project is ongoing



**Project name and country:** UXO Survey under Ship Lift (Offshore) & UXO Survey for Extension of Transfer Yard and Western Dry Dock (Onshore)

**Name of client:** Gulf Dredging & General Contracting Co. K.S.C. (Closed),

**Type of work performed and year of completion:** UXO/EOD Survey and Clearance

**Date of completion of delivery (as per contract):** Jan 2023 to Mar 2023

**Date of completion of delivery (actual):** Project is ongoing

**Remarks indicating reasons for late delivery, if any:** Project is ongoing



**Project name and country:** Humanitarian Mine Action (HMA) Training for AFINDEX-23

**Name of client:** College of Military Engineering, Dapodi, Pune, Maharashtra India

**Type of work performed and year of completion:** Humanitarian Mine Action Training

**Date of completion of delivery (as per contract):** 29-Mar-23

**Date of completion of delivery (actual):** 29-Mar-23

**Remarks indicating reasons for late delivery, if any:** Nil



**Project name and country:** Counter Improvised Explosive Device training (CIED)

**Name of client:** Suratgarh Military station

**Type of work performed and year of completion:** Construction of RCC Framed Structure Model Room (Earth Excavation, Returning Filling, Anti-Termite Treatment, PCC, Concrete Work, Floor Work, Joinery Work, Toilet, Plinth Protection, Electric Work, Painting)

**Date of completion of delivery (as per contract):** 25-Feb-23

**Date of completion of delivery (actual):** Project is ongoing

**Remarks indicating reasons for late delivery, if any:** Project is ongoing

## Section-VIII

### Past Projects & Experience

#### GLIMPSES OF PROJECT UNDERTAKEN : SRI LANKA





## Section-VIII

### Glimpses

#### GLIMPSES OF PROJECT UNDERTAKEN : SRI LANKA





## Section-VIII

### Glimpses

#### GLIMPSES OF PROJECT UNDERTAKEN : AZERBAIJAN



## Section-VIII

### Glimpses

#### GLIMPSES OF PROJECT UNDERTAKEN : JORDAN



#### GLIMPSES OF PROJECT UNDERTAKEN : KUWAIT





## Section-VIII

### Glimpses

#### GLIMPSES OF PROJECT UNDERTAKEN : KUWAIT





## Section-VIII

### Glimpses

#### GLIMPSES OF PROJECT UNDERTAKEN : INDIA





## Section-VIII

### Glimpses

#### Crane Manufacturing



## Section-VIII

### Monthly Reward & Recognitions





## Section-VIII

### Monthly Reward & Recognitions



**THE HORIZON**

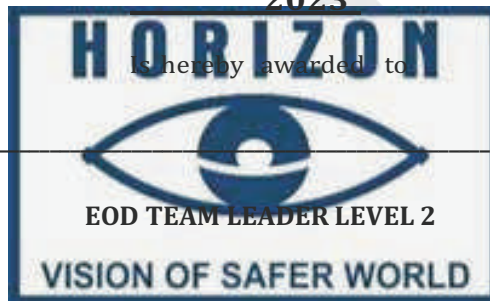


#### OUTSTANDING SUPERVISOR AWARD

FOR THE MONTH OF

2023

Is hereby awarded to



**EOD TEAM LEADER LEVEL 2**

**VISION OF SAFER WORLD**

In recognition that he has displayed exceptional conduct in team leadership, quality, safety, and productivity at work.

Thank you for your exemplary service.

*Col N Mittal*

**COL NAVNEET MITTAL (Retd)**  
**Chairman**

**HORIZON ASSIGNMENTS (INDIA) PVT LTD**  
No. 0301, Stilt Floor 3, Blue Ridge Township, Hinjewadi Phase 1, Pune – 411057  
E-mail : [info@horizon-groupindia.com](mailto:info@horizon-groupindia.com),  
[www.horizon-groupindia.com](http://www.horizon-groupindia.com)

## Section-VIII

### Horizon in Exhibitions





## Section-VIII

### Horizon in Exhibitions





## Section-IX

### Important Events & Appreciation

#### GLIMPSES OF IMPORTANT EVENTS : INDIA



Gen VK Singh, Former Chief of Army Staff and Current Minister of State visited the Horizon site in Sri Lanka: Sept 2010.



Mrs. Nirupama Rao, Former Foreign Secretary on visit to Horizon in Sri Lanka : Sept 2010.



Hon APJ Abdul Kalam, Former President of India presenting Shanmukh Ananda Award to Horizon : Jul 2012.



Mrs. Sushma Swaraj (Former Minister of External Affairs) & Parliamentary Delegation being briefed: Apr 2012.

## Section-IX

### Important Events & Appreciation

#### GLIMPSES OF IMPORTANT EVENTS : INDIA



At the 21st International Meeting of National Mine Action Programme Directors and United Nations Advisers (NDM-UN) held at the United Nations Headquarters, Palais des Nations at Geneva, Switzerland, Horizon Chairman, Col Navneet MP Mittal (Retd) had the privilege to meet Prince Mired Bin Ra'ad Bin Zeid Al-Hussein of Jordan who gave the closing plenary address and apprised him of Horizon's contribution at Jordan for Mine Action.



Briefing about HORIZON's endeavors in the Global Mine Action Sector to Mr. Pratap Parameswaran, Director for Political and Security Affairs, ASEAN Secretariat (Right).



HORIZON Director at KOC-TERI Contract Signing Ceremony Kuwait Mar 2012.

## Section-IX

### Important Events & Appreciation



#### ROYAL NORWEGIAN EMBASSY

HORIZON, an Indian NGO was associated with the Royal Norwegian Embassy in the field of Humanitarian Demining from 2003 to 2011. The NGO carried out nine demining projects in Sri Lanka with funding provided by the Royal Norwegian Government during this period, covering districts of Vavuniya, Mannar, Trincomalee, Batticaloa and Ampara. It cleared an area of about 60 sq km, detected and destroyed about 75,000 mines, unexploded ordnance and other instruments. Their work resulted in releasing for rehabilitation an area of about 101 sq km previously declared dangerous. Total 3,900 families comprising about 20,800 persons were settled in the area cleared. It also led to reopening of schools, hospitals, Government Offices and facilitated cultivation of more than 20 sq km.

I commend the dedication, professional competence and cost effectiveness of this humanitarian organisation for the noble cause of humanitarian demining.




Hilde Haraldstad  
Ambassador



## Section-IX

### Important Events & Appreciation

<p>දුරකථන Secretary Secreatray</p> <p>94-11-2676130</p>		<p>තාක්කාලය அதிகாரகம் Office</p> <p>94-11-2688088</p>
<p>தொலைநகல் Fax</p> <p>94-11-2676720</p>	<p>අර්ථික සංවර්ධන අමාත්‍යාංශය பொருளாதார அபிவிருத்தி அமைச்சு Ministry of Economic Development</p>	<p>தொலைநகல் Fax</p> <p>94-11-2676720</p>

---


<p>මගේ අංකය எனது இல. My No.</p> <p>MED/RD/NMAC/01/Horizon</p>	<p>ඔබේ අංකය உமது இல. Your No.</p>	<p>30<sup>th</sup> August 2012</p>
---	---	------------------------------------

**To whom it may concerned**

Horizon is one of Indian based international de-mining organizations performing de-mining operations under the National Mine Action Programme in Sri Lanka since year 2004.

Since the inception, as at 30<sup>th</sup> June 2012 Horizon has contributed the National Mine Action Programme by clearing of mines in a land area of 93,375,545 sq.m and recovered 43595, 46 and 3969 of Anti Personal mines, Anti Tank mines and UXOs respectively by adopting the Sri Lanka National Mine Action Standards (SLNMAS) developed in line with the International Mine Action Standards (IMAS).

With the experience gained in Sri Lanka, Horizon will be able to undertake an effective de-mining operations in anywhere in the world.

  
**D.P.K.Ranasinghe**  
Assistant Director  
For Director – Mine Action  
National Mine Action Centre  
Ministry of Economic Development

## Section-IX

### Important Events & Appreciation



#### Norwegian People's Aid

Mine Action Programme - Jordan

#### STATISTICS

Team	No of Tasks	AP Cleared	AT Cleared	SQM Cleared	Man Days
Site Preparation Team 1&2	70	10510	6129	59639	1608

Period Covered  
10 June 2006-20 Mar 2007

#### OVERVIEW

In general the Horizon members were hard working, professional and diligent in their duties. They contributed tremendously to the success of the mine clearance project and NPA will recommend the members of the team without any reservations. Horizon as an organization provided constant support to their team members and NPA hope to build on this relationship in the future.



STEPHEN BRYANT

Program Manager  
Norwegian People's Aid  
Jordan



10 April 2007

## Section-IX

### Important Events & Appreciation

#### Horizon

---

**From:** Banwari Lal [banwaril@teri.res.in]  
**Sent:** 15 October 2013 17:45  
**To:** Horizon  
**Cc:** 'Anil Apte'; 'Infoindia'; 'Navneet Mittal'; 'TOMS OUSEPH'; timothy.peterson@teri-kocproj.org; OPERATIONS; sandeep arora; Sandeep Arora; Priyangshu M Sarma; M M Joshi; Dinesh Varma; Ajoy Kumar Mandal; Albert Trevor  
**Subject:** Completion of work

Dear Brig Apte,

I would like to thank the entire team of M/s Horizon and my special appreciation to Col. Anil Srivastava for successfully completing the EOD/UXO and Radiological works of KOC project.

As this is our first project in Kuwait so we had not envisaged earlier that it will take more than a year to complete the work which was planned only for three months in the initial stage of the project. Needless to mention that both the team of M/s Horizon as well as TERI put in their best efforts to complete this challenging task successfully. At the same time I would also like to mention that the extended period of work had added on our expenses considerably which we had not budgeted earlier. As the work has been completed now and also the rental period of the accommodation arranged for team of M/s Horizon would be ending on 22nd Oct so I humbly request you to demobilize your team on 22nd Oct except for the two EOD supports who will remain with TERI.

I also request that the remaining reports to be prepared and submitted from India. We will make the payment of the outstanding bills in the first week of November 2013.

Once again, my deep appreciation to the entire team of M/s Horizon for completion of the above task.

We look forward to meeting you again in the future.

Best regards,

Banwari Lal, Ph.D  
Director  
Environmental and Industrial Biotechnology Division The Energy and Resources Institute  
Darbari Seth Block, Habitat Place Lodhi Road, New Delhi - 110 003 India  
Tel: +91-11-24682100 and +91-11-41504900  
Fax: +91-11-24682144 and +91-11-24682145  
Email: [banwaril@teri.res.in](mailto:banwaril@teri.res.in)  
Web site [www.teriin.org](http://www.teriin.org)  
\*\*\*\*\*



## Section-IX

### Important Events & Appreciation

United Nations Development Programme



#### YEAR WISE DETAILS OF AREA CLEARED AND DEVICES RECOVERED BY HORIZON

This is to certify that Horizon is engaged in Humanitarian Demining in Sri Lanka since the year 2003. Year – wise details of area cleared and devices recovered by Horizon as recorded in the IMSMA is given below.

Ser No.	Year	Area Cleared (sq m)	Devices Recovered				Grand Total
			AP Mines	AT Mines	Unknown	UXO	
1	2003	206,000	1,672		1		1,673
2	2004	88,693	1,094	3		153	1,250
3	2005	219,701	981			29	1,010
4	2006	206,692	931			7	938
5	2007	7,723,856	273		3	65	341
6	2008	27,507,453	107	1		242	350
7	2009	28,845,457	3,438	2	50,343	2,920	56,703
8	2010	28,863,964	23,741	40	6,688	293	30,762
9	2011	5,329,844	11,176		2,185	247	13,608
10	2012	589,269	413		878	61	1,352
Total		99,580,929	43,826	46	60,098	4,017	107,987

(As per completion reports as recorded in IMSMA)

Regional Mine Action Officer, Vavuniya

Sri Lanka

[arumainayagam.Mugunthan@undp.org](mailto:arumainayagam.Mugunthan@undp.org)

Mine Action Officer  
Regional Mine Action Office  
District Secretariat  
Vavuniya, Sri Lanka.

30.11.2012

Date

District Mine Action Office, District Secretariat, Vavuniya

## Section-IX

### Important Events & Appreciation



## Section-X

### Glossary

GLOSSARY OF TERMS	
Abbreviation	Definition
BAC	Battle Area Clearance
bgs	Below Ground Surface
cm	Centimeters
EOD	Explosive Ordnance Disposal
ERW	Explosive Remnants of War
HD	Humanitarian Demining
HSE	Health, Safety and Environment
HSEMS	Health, Safety and Environment Management System
ICC	Interim Clearance Certificate
IMAS	International Mine Action Standard
JSA	Job Safety Analysis
KMoD	Kuwait Ministry of Defence
KNFP	Kuwait National Focal Point
KOC	Kuwait Oil Company (Company)
kms	Kilometers
MEC	Munitions of Explosive Concern
MOD	Ministry of Defence
m	Meters
QA/QC	Quality Assurance/Quality Control
UXO	Unexploded Ordnance
WMS	Works Method Statements
EIC	Engineer-in-charge
OWS	Oil and Water Sewer
H <sub>2</sub> S	Hydrogen Sulphide
wt/wt	Weight Percentage
PPE	Personal Protective Equipment
at/at	Atomic Percentage
HSE	Health, Safety, and Environment
BS&W	Bottom Sediment and water
w/w	Weight concentration of Solution
M <sup>3</sup> /day	Cubic Meter per day
Kg/ Cm <sup>2</sup>	Kilogram per Square centimeter pressure unit
LDO	Light Diesel Oil
KG	Kilogram
KWH	Kilowatt - Hour
RO	Recovered Oil
QA/QC	Quality Assurance/Quality Control



# THANK YOU!



URS is a member of Registrar of Standards (Holdings) Ltd.



[HTTPS://WWW.LINKEDIN.COM/IN/HORIZON-ASSIGNMENTS-ABB54A105](https://www.linkedin.com/in/horizon-assignments-abb54a105)



[HTTPS://INSTAGRAM.COM/HORIZONASSIGNMENTS?igshid=ymmymta2m2y=](https://instagram.com/horizonassignments?igshid=ymmymta2m2y=)



[HTTPS://WWW.FACEBOOK.COM/HORIZONASSIGNMENTS?mibextid=ZBWKWL](https://www.facebook.com/horizonassignments?mibextid=ZBWKWL)



[HTTPS://TWITTER.COM/HORIZONASSIGNMENT?igshid=jgjsbchypT-B8FOVJWED5G&S=09](https://twitter.com/horizonassignment?igshid=jgjsbchypT-B8FOVJWED5G&S=09)



[HTTPS://YOUTUBE.COM/@IMBMEDIAINDIA](https://youtube.com/@imbmediaindia)

## REGISTERED / CORPORATE OFFICE

Tower B6, Flat 0301, Stilt Floor 3,  
Blue Ridge Township, Phase 1,  
Pune, Maharashtra, Pin: 411057  
[info@horizon-groupindia.com](mailto:info@horizon-groupindia.com)  
+ 91 9890469111 / 8459273764

## KUWAIT OFFICE

Unit 33, 34, 36, Floor 9, B-Building,  
Al Muhanna Towers, Street 111,  
Block 1, Mahboula, Kuwait.  
[info@horizon-groupindia.com](mailto:info@horizon-groupindia.com)  
(+)965 60025865

Vice President BD  
+ 91 7756849691, + 965 60983630

## USA PARTNER OFFICE

Horizon Assignments L.L.C. USA  
1621 12Th Street South,  
Birmingham, Alabama 35205 USA.  
[info@horizon-groupindia.com](mailto:info@horizon-groupindia.com)  
+ 91 9890469111

Ms. Mavi +1 205 9485151

Mr. Peter Faro, South Africa,  
+ 27 605098590