

The Techma logo features the word "Techma" in a white, bold, sans-serif font. It is set against a dark blue background with a purple-to-blue gradient. A thick, curved purple line arches over the text, and a thin blue line arches underneath it, creating a sense of motion or a stylized 'T' shape.

Techma

The title "Emergency Response Management" is written in a large, white, sans-serif font. It is positioned in the center of the page, overlaid on a dark blue background. In the background, there is a faint, light blue silhouette of an industrial or construction site, showing a crane, buildings, and several figures.

Emergency Response Management

October 2021

PROFESSIONAL SOLUTIONS TO PROTECT YOUR BUSINESS

## TECHMA

An ISO:9001 Dubai based company, owned by the IOTA Group, an independent global operating Swiss-based company.

Techma are specialists in Technical Services, Training and Emergency Response Management



Techma offer the following services:

- Consultancy Services
- Health and Safety Training
- Civil Defence Fire Service Training
- Emergency Response Team personnel provision, training and management
- Training Needs Analysis
- Capability Audits

Techma strives to work in partnership with their clients to ensure the most effective solution.

WORKING TOGETHER FOR A BETTER FUTURE



Techma prides itself on providing high quality and consistent training programmes. To support this they have gained accreditation from these Internationally recognised awarding bodies and membership of fire related organisations



Investment in good training reduces losses when disaster strikes.



Techma delivering training.



Putting training to good use.



## WHAT IS EMERGENCY RESPONSE MANAGEMENT?

Emergency Response Management is the “contracting out” of an organisations obligation to provide an emergency response capability. This generally applies to major industries such as refineries or chemical plants, or other industries located in remote areas.

In simple terms the outcome is that the contractor takes responsibility for:

- The provision of all personnel.
- Training to international best practice through accredited programmes.
- Testing and maintenance of all on-site equipment.



## ADVANTAGES.

- Outsourcing the emergency response capability is a big decision, but it puts the responsibility of ensuring a highly trained competent response capability into the hands of professionals.
- The burden of maintaining a highly trained unit within a high-risk environment, that satisfies international best practice, is removed from management, and is given to personnel with the skills, knowledge and experience to ensure that the necessary staffing levels, training and competencies are maintained.



GAZPROM NEFT BADRA – IRAQ  
A CASE STUDY.



## TECHMA'S DUTIES IN BADRA.

Techma are contracted to provide Gazprom with the personnel that will ensure emergency response, firefighting services, oil spill response, rescue from confined space and fire, rescue from height, consultation services and any other services related to emergency response including but not limited to inspections, audits, ER drills, maintenance of fire extinguishers, fire truck repairs and any other duties agreed with the client.



## TECHMA'S DUTIES (CONT).

Techma provide FF & ER Services 24/7 on Gazprom's facilities including, but not limited to: Badra Base Camp, Central Processing Facility (CPF), well pads, infield manifolds and pipelines, export pipelines, drilling sites and rigs, construction sites, Company contractors and sub-contractor facilities, and any other facilities related to the Badra project if required.

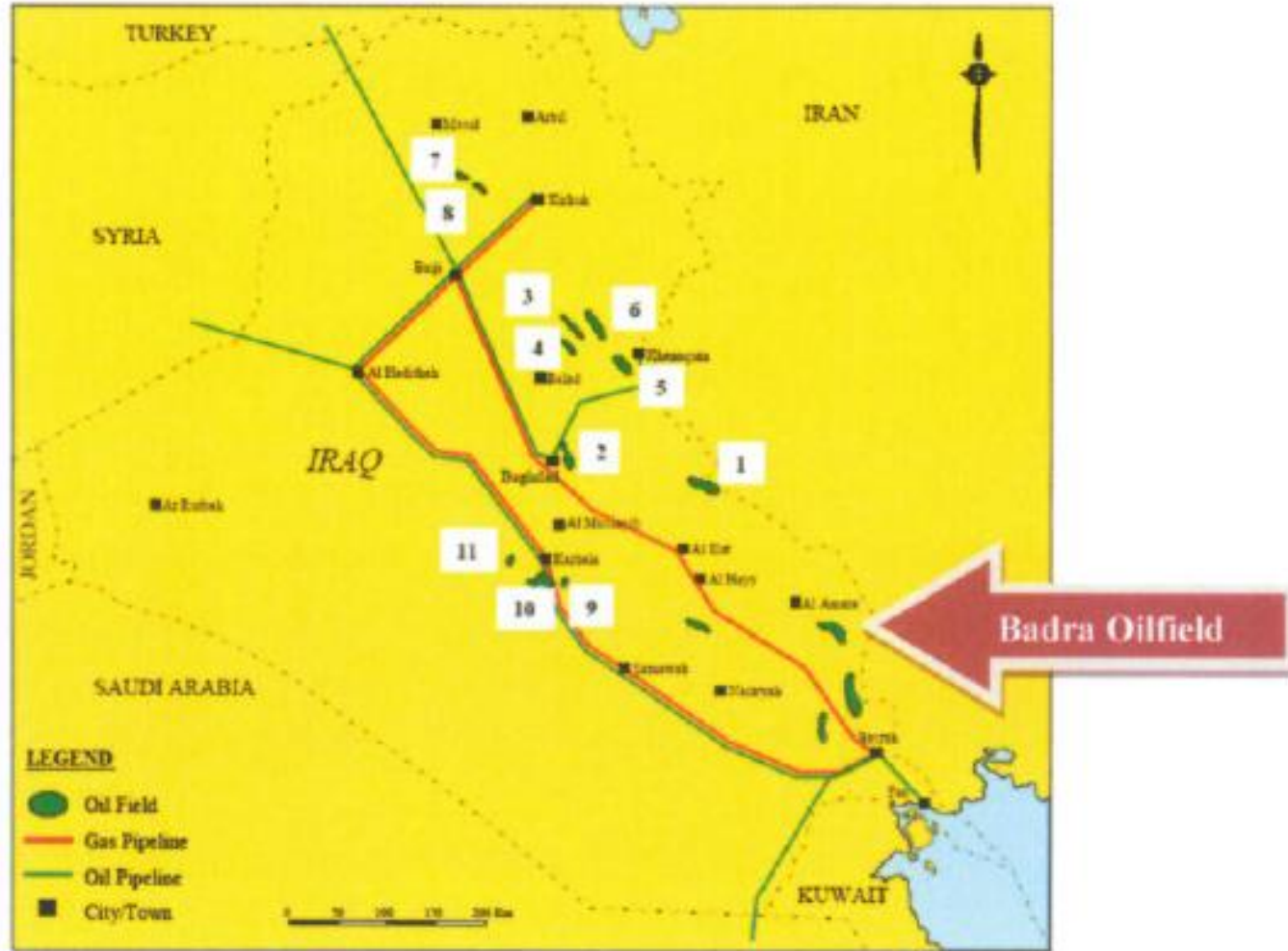
Techma's personnel also respond to civil firefighting and emergency calls from local villages in Badra area as part of Gazprom social contribution program.



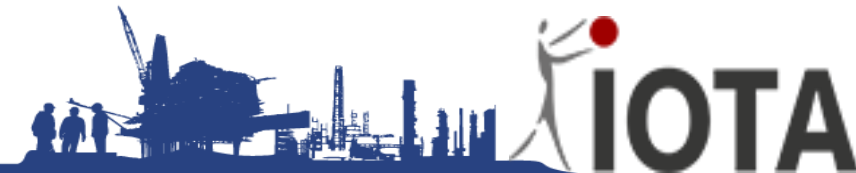
## THE SITE

The Badra Oil Field is approximately 170 sq.km and is operated by Gazprom Neft Badra that holds 30% of the project, Kogas Badra holds 22.5%, Petronas Carigali Iraq holds 15%, TPOC Ltd hold 7.5% while Iraq Oil Exploration Company holds 25%.



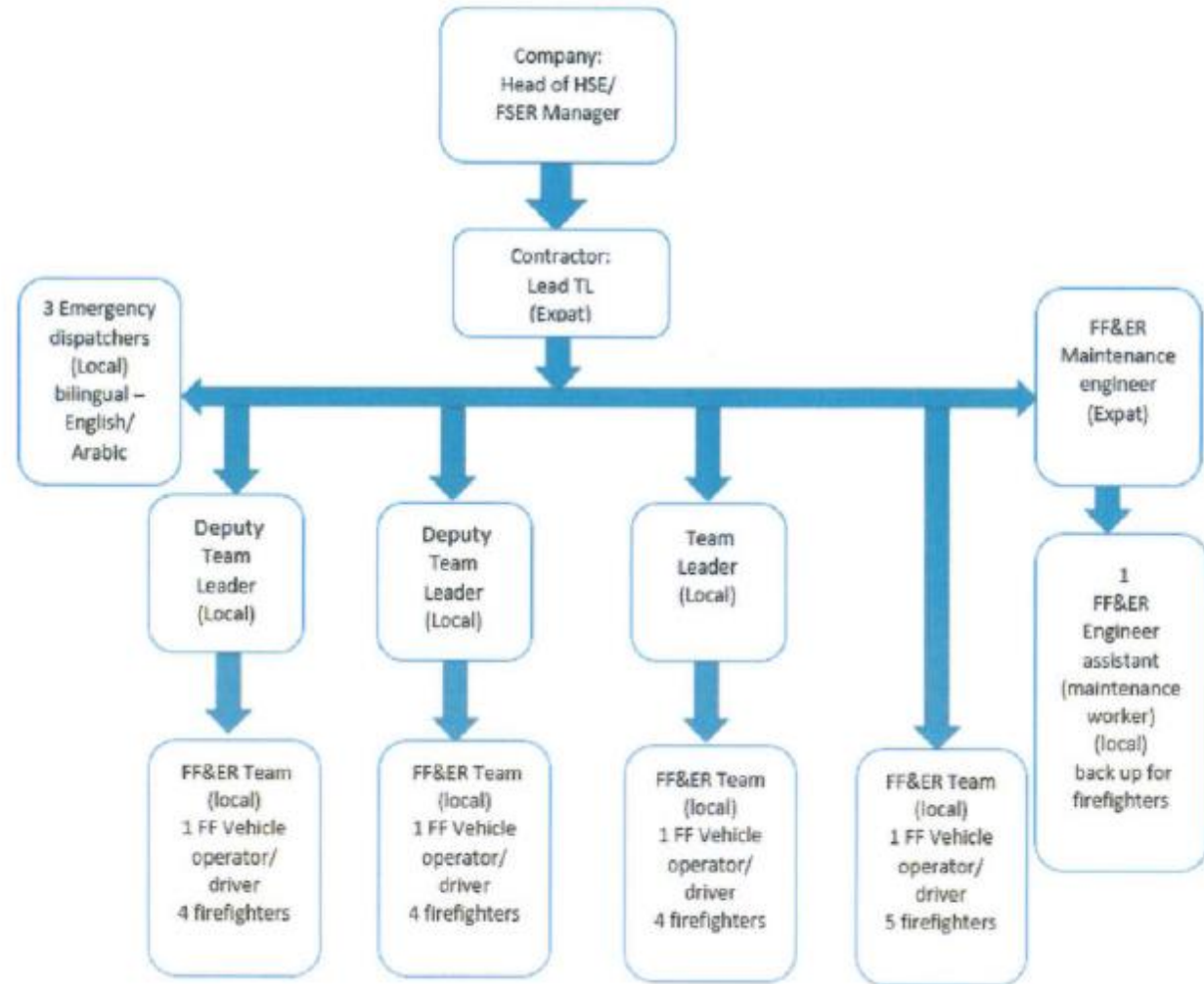


## THE SITE



## BASIC ORGANIZATION CHART

Personnel provided by Techma who are required to be on duty 24/7 for each rotation.



## TECHMA STAFF CURRENTLY OPERATING IN BADRA.

- Lead Team Leader – two expatriate personnel, one per rotation
- Team Leader – two local personnel, one per rotation.
- FF & ER Maintenance engineer – two expatriate personnel, one per rotation.
- Deputy Fire Team Leader – four local personnel, two per rotation.
- Emergency Dispatchers – six local personnel, three per rotation.
- Fire truck drivers – eight local personnel, 4 per rotation.
- FF & ER Maintenance Engineer assistant – two local personnel, one per rotation.
- Firefighters – 34 local personnel, seventeen per rotation.



## FF & ER TEAM DUTIES.

The FF & ER Team are mobilised to:

- All fires, both hydro-carbon and chemical fires.
- All H<sub>2</sub>S and other gas releases.
- Road traffic accidents
- Rescue from height.
- Rescue from confined space and other places with restricted access.
- Rescue from pits, vessels and other underground facilities.
- Natural disasters including earth quakes.
- Oil and other chemical spills.



## FF & ER TEAM DUTIES.

In addition, the FF & ER Team are responsible for:

- Conducting incident investigations.
- Conducting emergency response drills for Gazprom personnel.
- Arranging and conducting on-the-job training for FF & ER Team.
- Ensuring any new recruits are trained to EU/UK Standard.
- Developing and approving Gazprom Disaster Management Plans.
- Developing and up-dating all S.O.P's.
- Arranging and conducting training using all Gazprom's emergency response equipment, including SCBA and fire trucks.
- Undertaking HAZOP, SIMOP's, and Risk Assessments as required.
- Arranging and conducting fire safety audits and inspections.





# WHAT EQUIPMENT DOES EACH FACILITY REQUIRE?

It is difficult to be accurate with the amount of equipment that each location may need, but as a guide, Gazprom utilises the following:

- Four front-line fully equipped fire appliances – this guarantees at least two will always be available while the others are serviced or in need of repair.
- Two major foam carriers.
- Two water bowsers.
- One emergency rescue vehicle – for road traffic accidents.



## EQUIPMENT REQUIREMENTS.

There is also the need for ancillary equipment and resources that require consideration:

- Restaurant, dormitory, wash-room facilities etc.
- Personal Protective clothing (e.g. Helmet, boots, jacket, trousers, gloves and anti-flash hoods) and general work-wear.
- Personal Protective Equipment (e.g. SCBA)
- Washing and servicing facilities for PPE.
- Training resources to maintain competence.



## HOW MANY PERSONNEL DO I NEED FOR MY SITE?

The Gazprom site in Badra covers 170 sq. km, and Techma employ 60 personnel to provide a professional Emergency Response unit, capable of providing 24/7 coverage to international best practice standard.

This ratio of personnel to size of complex is only a very rough guide, and can only be accurately assessed following the completion of a Risk Assessment.



## WHY TECHMA?

- During 2020, Techma Emergency Response Unit attended 73 incidents including 6 fires, 66 calls by AFA and 1 medical emergency.
- On all occasions that the ER & FF personnel were mobilised, they satisfied the KPI's set by Gazprom for attendance times.
- In 2020 Techma Emergency Response Unit trained 624 on-site personnel. So far in 2021 the figure has already reached 570.
- Techma undertake between 60 and 70 safety audits per month.



## WHY TECHMA?

- It is almost impossible to say what the effectiveness of Techma's influence is, but just by satisfying the KPI's for attendance times, the possibility of a major conflagration is greatly reduced.
- Add to the above the huge number of people trained in basic fire prevention, health and safety and basic fire fighting, which all adds to the safety culture of the site.
- All hot work and confined space entry work is inspected by the ER Unit before commencement, and they remain in attendance if the Risk Assessment requires it.



## WHAT IS THE NEXT STEP?

If you are interested in outsourcing your emergency response requirements or interested in how to set up your own capability, please do not hesitate to contact me.

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