



CASSION CONSULTING

Hyper Baric Intervention Specialist



CASSION CONSULTANTS

PRESSURE IS THE ESSENCE OF OUR WORK

Dr. Harigopal Subudhi

(Ex-Indian Armed Forces)



Work Experience:

1. Presently consultant in Diving and Offshore Medicine, Aviation Medicine, Marine Medicine, General Medicine, Public Health, and Industrial Health since 2000.
2. Medical Consultant in the Indian Navy.

Achievements:

1. One of the few Level 2 Medical consultants for Dive and Hyperbaric Medicine in world.
2. First doctor to be officially approved by Directorate General of Shipping, Govt. of India.
3. Panel doctor for various Consulates, such as Republic of Mauritius, Panama, Vanuatu, Liberia, Marshall Islands, MCA-UK, MPA-Singapore, Australia, and other flag States.
4. All-India topper at Army Medical Corps.
5. Gold Medal in PGD Health and Hospital Management (AIIMS, New Delhi).

Education & Qualifications:

- M.B.B.S (Regd. with Medical Council of India)
- Naval Medicine (School of Naval Medicine, Mumbai, Indian Navy)
- Specialist in Occupational Medicine (AFIH, Centre Labour Institute)
- Level 1 Marine and Diving Medicine (UHMS, North Carolina, USA)
- Level 2 Marine/Offshore and Diving Medicine (Royal College of Edinburgh, UK)

Present Empanelment with the following authorities:

- DG Shipping (Ministry of Shipping)
- DGFASLI (Ministry of Labour)
- Consulate of Mauritius
- IMCA-UK(Diving and offshore)
- UHMS-USA
- DGCA (Ministry of Civil Aviation)

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Education & Qualifications:

- UG in Chemistry Botany & Zoology at JSS college Mysore
- HSE part 1 diving course at the UNDERWATER TRAINING CENTER FT William UK
- Diver medic training & Remotely Operated Vehicle pilot training
- CSWIP 3.4U Inspection co-ordinator

Deep sea diver with
16 years of
underwater experience

Set up all procedures & man lock operations at Bangalore, Chennai metro & Katni projects Managed over 50,000 hours of man lock operations.

Carried out interventions at costal projects, Bangalore & SUCG-L&T JV, AFCONS-TTS JV & MOSMETRO-GAMMON JV, in CHENNAI. Narmada Valley Development Authority, Katni.

Partner & operations head in partnership with Hyperbaric Services.

Initial set up of man lock, inspection & certification, man lock procedure, breathing Air certification & man lock operator coordination & documentation.



EXPERIENCE

- Offshore diving projects for Dolphin Offshore
- Worked for various oil companies in the middle east, far east & Africa
- Client rep/diving & construction Superintendent at Lakshmi field at Hazira & Ravva oil fields
- Construction manager for Bangalore International Airport expansion project, responsible for 8700 tonnes of steel
- Over 1 lakh hours of work under pressure, 1000 hours of confined, pressurized hot work with no incident.

COMPANY PROFILE:

- ☛ We specialise in hyperbaric intervention for the tunnel boring machine
- ☛ Medical consultancy for hyperbaric work
- ☛ Expert medical panel on board the company.
- ☛ TBM manlock consultancy for hyperbaric intervention
- ☛ Supply and management of trained manlock operators.
- ☛ Consultancy for air quality checks, testing and commissioning of man locks
- ☛ Supply and maintenance of medical locks
- ☛ Supply of emergency equipment
- ☛ Supply of miners and trained personnel for hyperbaric intervention
- ☛ Rescue training and emergency procedures.
- ☛ Development of standard operating procedures for TBM operations.
- ☛ Safety regulations and SOP
- ☛ Consultancy and management of HOT work under confined space.
- ☛ Record keeping management of interventions.
- ☛ Refurshment of medical and manlocks with certification.





OPERATOR PROFILE

All our operators are experienced divers from the navy with at least 10 years experience. All of them are EX CD1 level divers who are diving supervisors in the navy. They are also ex special forces.

After retiring from the naval special forces they have been working as divers in the oil and gas industry.

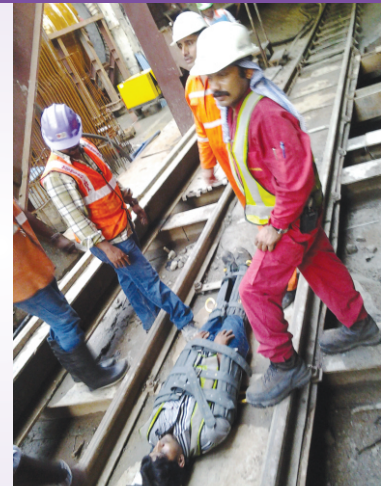
All our operators have a minimum of 2- 4 years' experience in hyperbaric intervention operations.

Our criteria for selection is experience, calmness and composure in times of emergency, and thinking on their feet.



SAFETY STANDARDS AND DOCUMENTATION

The operators are trained to maintain the highest level of safety standards and ensure all operations are conducted in a safe environment, without causing any damage to human life. As part of the process they also maintain a proper documentation process that can be reviewed later.



PLANT AND EQUIPMENT

COMPRESSORS AND ALLIED EQUIPMENT

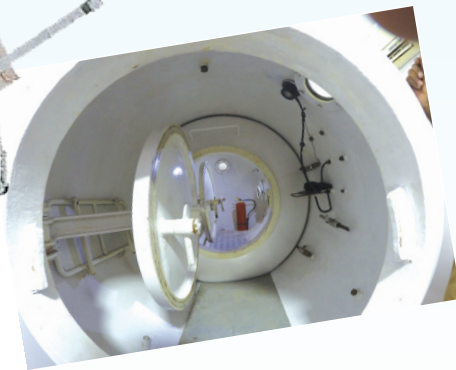
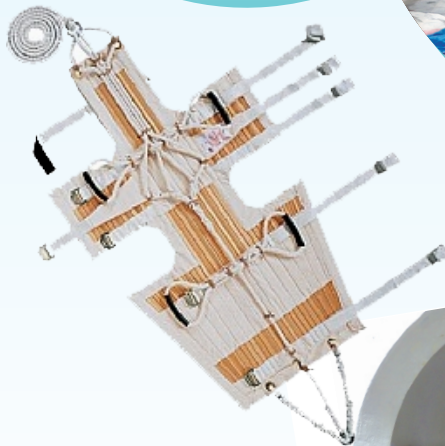
All the equipment required for a hyperbaric intervention has to be certified for use by a third party surveyor. This is part of the mandatory fit for human use certification. All equipment including compressors, reservoir tanks gauges need to be certified fit for human use.

The manlocks need to be certified for fit to use by a qualified Third party surveyor. This would include all the gauges, air quality, seals, fittings, relief valves, port holes etc.

Similarly the medical locks also need to be certified by a qualified third party surveyor as part of the statutory compliances.

We also consult on the type of compressor, minimum air requirements, air quality certification, gauges, safety equipment etc.

As part of the intervention a few mandatory equipment is required at site which would include nitrogen based fire extinguishers, emergency chemical rebreathers, neil Robertson stretcher, etc. We have tieups with suppliers for procurement and supply of the same.



SUPPLY OF MEDICAL LOCKS

We have our own medical locks/chambers for treatment, which are housed in a container and can be shifted easily.

We have them certified and ready to use.

These are rented out to companies.



RECERTIFICATION and REFURBISHMENT

As part of every ongoing job all manlocks and medical locks need to be recertified or sometimes refurbished. We specialise in refurbishment and enhancement of medical and manlocks, with a team of qualified mechanics for the job. We do a turnkey project of refurbishing and recertifying the system.



TRAINED MINERS TEAM

As part of a company that is involved in Hyper Baric Intervention we have our own team of experienced miners who will be available to our clients at short notice.

Miners have over 10,000 hours of work experience under pressure ranging from 0.8 bar to 1.8 bar.

The miners are multi skilled as welders, fabricators and riggers.



CASSION CONSULTANTS

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