Ref : **ADM/LMN/2022/21**

Date: **29/04/2022**

LOCAL MARINE NOTICE IN ABU DHABI

To : All users of waterways, mariners and maritime operators in Abu Dhabi

Location : Mugharraq-Sir Bani Yas offshore areas

Subject : Offshore ADNOC 3D Seismic Survey

Seismic survey operations will be carried out by BGPO Inc. in Abu Dhabi waterways as per attached schedule and location map.

All waterways users and marine operators are required to take all necessary actions and instruct their Masters/Operators to be vigilant and stay well clear of the area of operations and adhahre to following Instructions:

1. All concerned parties to be aware that in the area indicated, the seismic equipment will be deployed on the seabed as well as on water surface.
2. Seismic source vessels will be operated day and night during operation periods.
3. Fishing, anchoring stoppage and diving operations in this area are strictly forbidden.
4. All seismic survey operation vessels will be restricted in their ability to maneuver during the seismic operations.
5. The seismic survey operation vessels will keep clear of the vessels navigating in the channels while all other vessels should navigate safely with due care and keep clear from seismic survey vessel.

المرجع :

التاريخ :

النشرة البحرية المحلية لإمارة أبوظبي

إلى : جميع مستخدمي الممرات المائية والبحارة والمشغلين البحريين في أبوظبي

الموقع : المناطق البحرية - المغرق وصِير بَنِي يَاس

الموضوع : مسح أدنوك الزلزالي ثلاثي الأبعاد

ستقوم شركة BGPO Inc بتنفيذ عمليات المسح السيزمي (الزلزالي) في الممرات المائية بأبوظبي وفقًا للجدول الزمني وخريطة الموقع المرفقين.

على جميع مستخدمي الممرات المائية والمشغلين البحريين اتخاذ ما يلزم وإصدار التعليمات المطلوبة لربابنة سفنهم ومشغليها بضرورة توخي الحذر والبقاء بعيدًا عن منطقة العمليات والالتزام بالتعليمات التالية:

1. على جميع المعنيين العلم بأنه سيتم نشر معدات المسح السيزمي في قاع البحر وكذلك على سطح الماء بالمنطقة المشار إليها.
2. سيتم تشغيل سفن المسح السيزمي (سفن المصدر) ليلا ونهارا خلال فترات التشغيل.
3. عمليات الصيد والرسو والتوقف والغوص في هذه المنطقة ممنوعة منعا باتا.
4. جميع سفن عمليات المسح السيزمي ستصبح مقيدة في قدرتها على المناورة أثناء عمليات المسح الزلزالي.
5. ستقوم سفن عمليات المسح السيزمي بالابتعاد عن السفن المبحرة في القنوات المائية بينما يتعين على جميع السفن الأخرى الإبحار بممرات آمنة مع اتخاذ لحذر التام والابتعاد عن سفن المسح السيزمي.

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ص. ب. 54477
أبوظبي، الإمارات العربية المتحدة

6. Siesmic Survey Vessels can be contacted through VHF CH 09/16/72 for further movement information.

7. List of the relevant Siesmic Survey Vessels and their communication channels is attached as well.

8. This LMN to be read in conjunction with AD Ports Group and ADNOC circulars, Marine Notices and other instructions issued for the same project.

Attachement:
- Illustrative map with schedule.
- List of Seismic Survey fleet and contacts

6. يمكن الاتصال بسفن المسح السيزمي من خلال VHF CH 72/16/09 للحصول على مزيد من المعلومات عن الحركة.

7. مرفق أيضا قائمة بسفن المسح السيزمي المعنية وقنوات الاتصال معها.

8. يجب قراءة هذه النشرة المحلية بالتزامن مع التعاميم والنشرات البحرية والتعليمات الأخرى الصادرة من مجموعة موانئ أبوظبي وأدنوك والخاصة بنفس المشروع.

المرفقات:
- خريطة توضيحية مع الجدول الزمني.
- قائمة أسطول المسح السيزمي وقنوات الاتصال

سيف المهيري

المدير العام – أبوظبي البحرية

Capt. Saif Al Mheiri
Managing Director – Abu Dhabi Maritime

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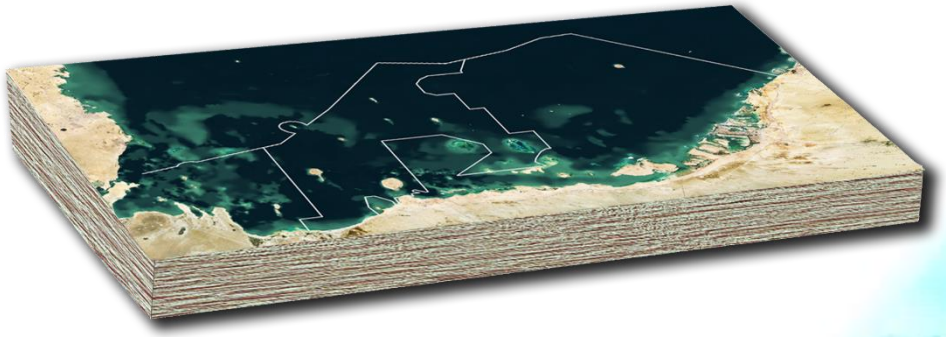
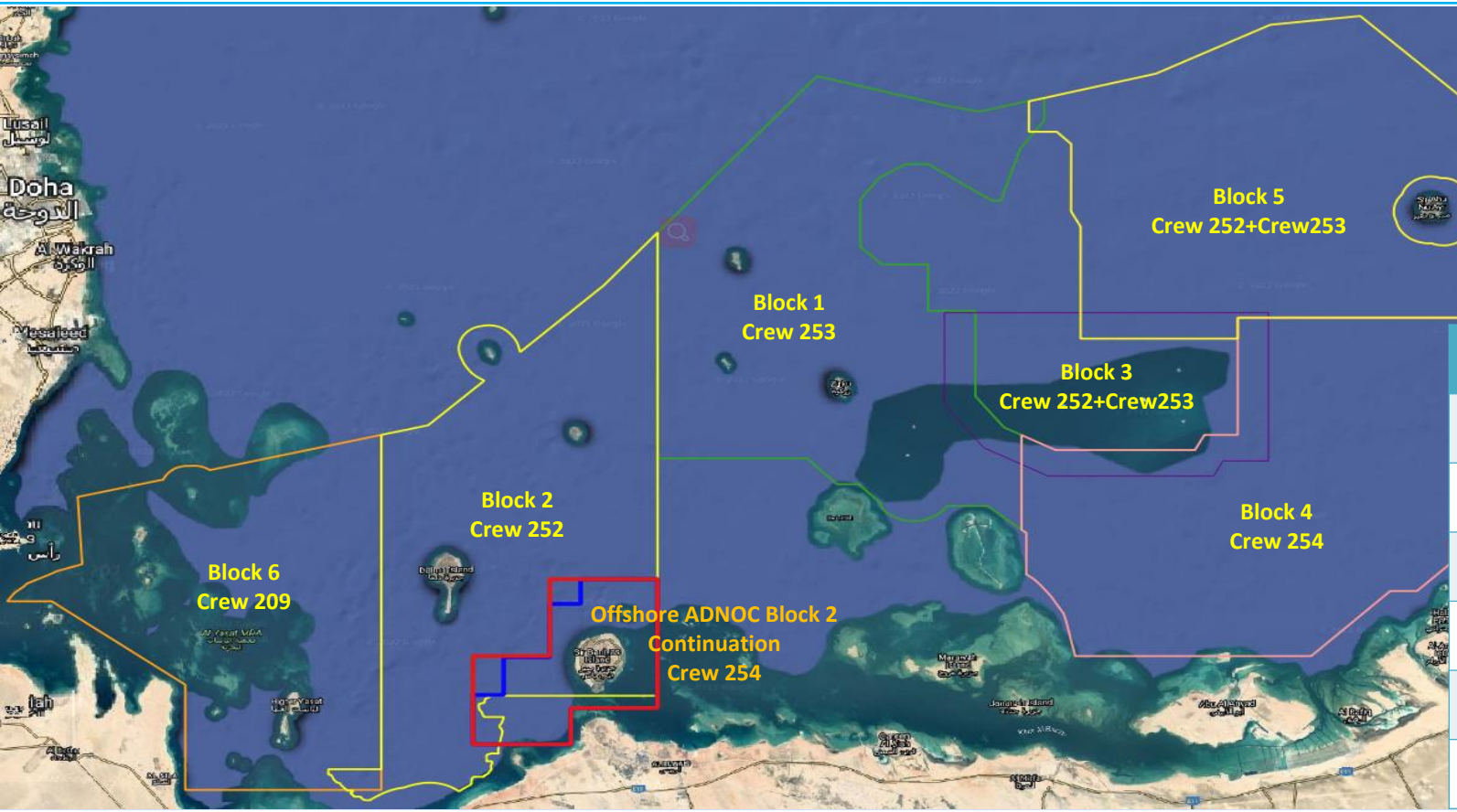
OFFSHORE ADNOC 3D SEISMIC SURVEY ACQUISITION

Offshore ADNOC Block 2 Continuation

BGP CREW 254



Project Overview - Offshore ADNOC Block 2 Continuation

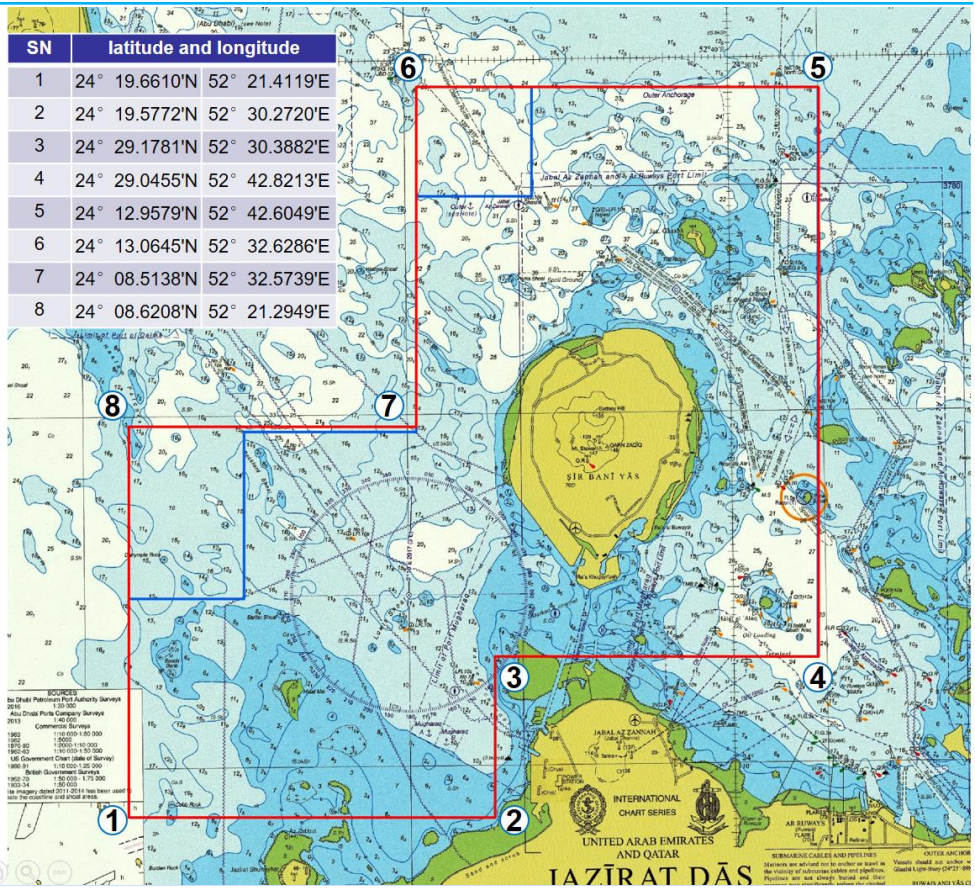


Project	OFFSHORE ADNOC 3D
Client	ADNOC
Contractor	BGP INC., CNPC
Block	Block 2(SBY Island)
Survey	862.395 km2
Location	Offshore, ABU DHABI
Crew	BGP Crew 254

Project Overview - Offshore ADNOC Block 2 Continuation

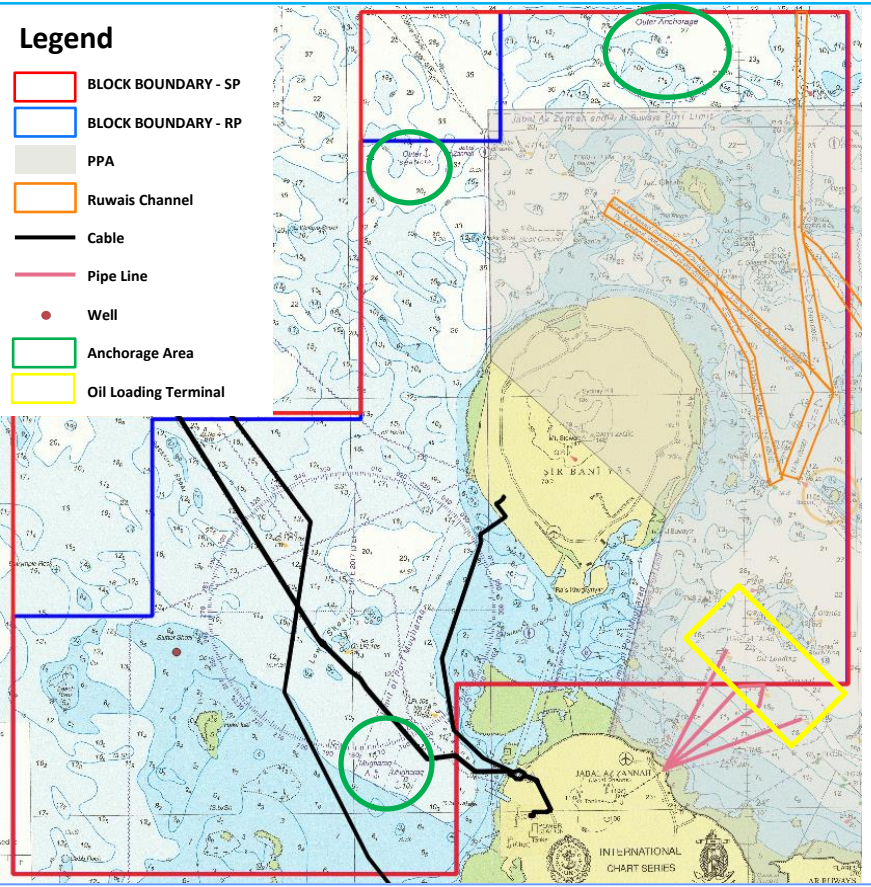
Project Location:

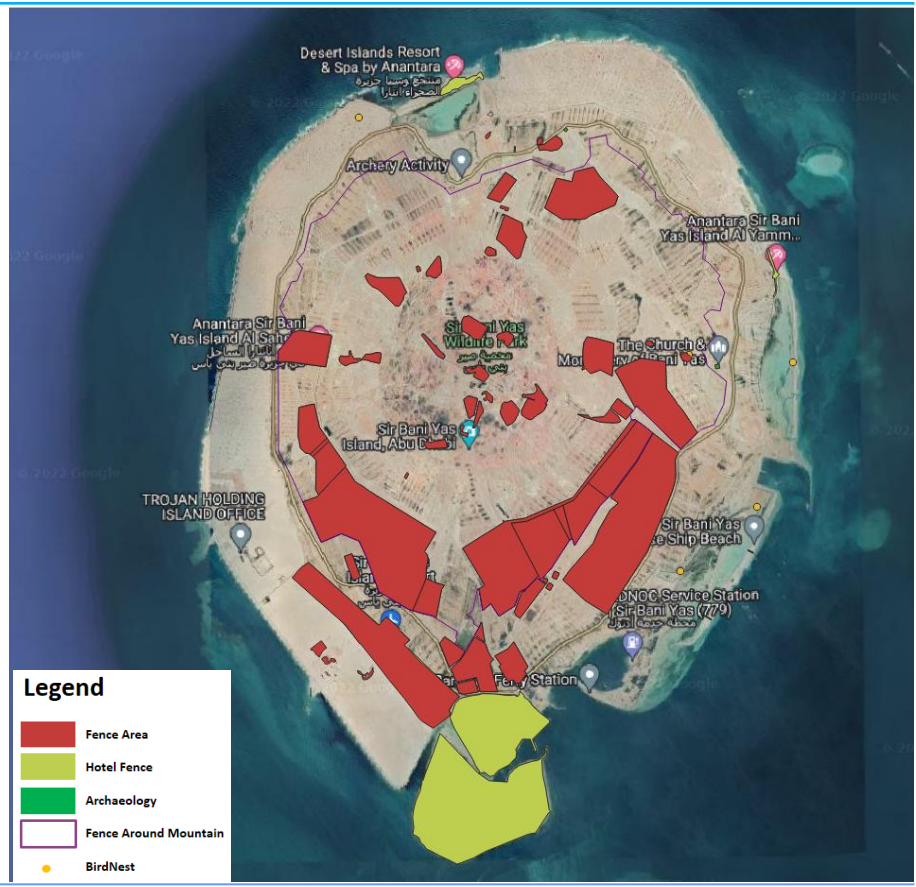
SN	latitude and longitude	
1	24°19.6610'N	52°21.4119'E
2	24°19.5772'N	52°30.2720'E
3	24°29.1781'N	52°30.3882'E
4	24°29.0455'N	52°42.8213'E
5	24°12.9579'N	52°42.6049'E
6	24°13.0645'N	52°32.6286'E
7	24°08.5138'N	52°32.5739'E
8	24°08.6208'N	52°21.2949'E



Vessel Fleet

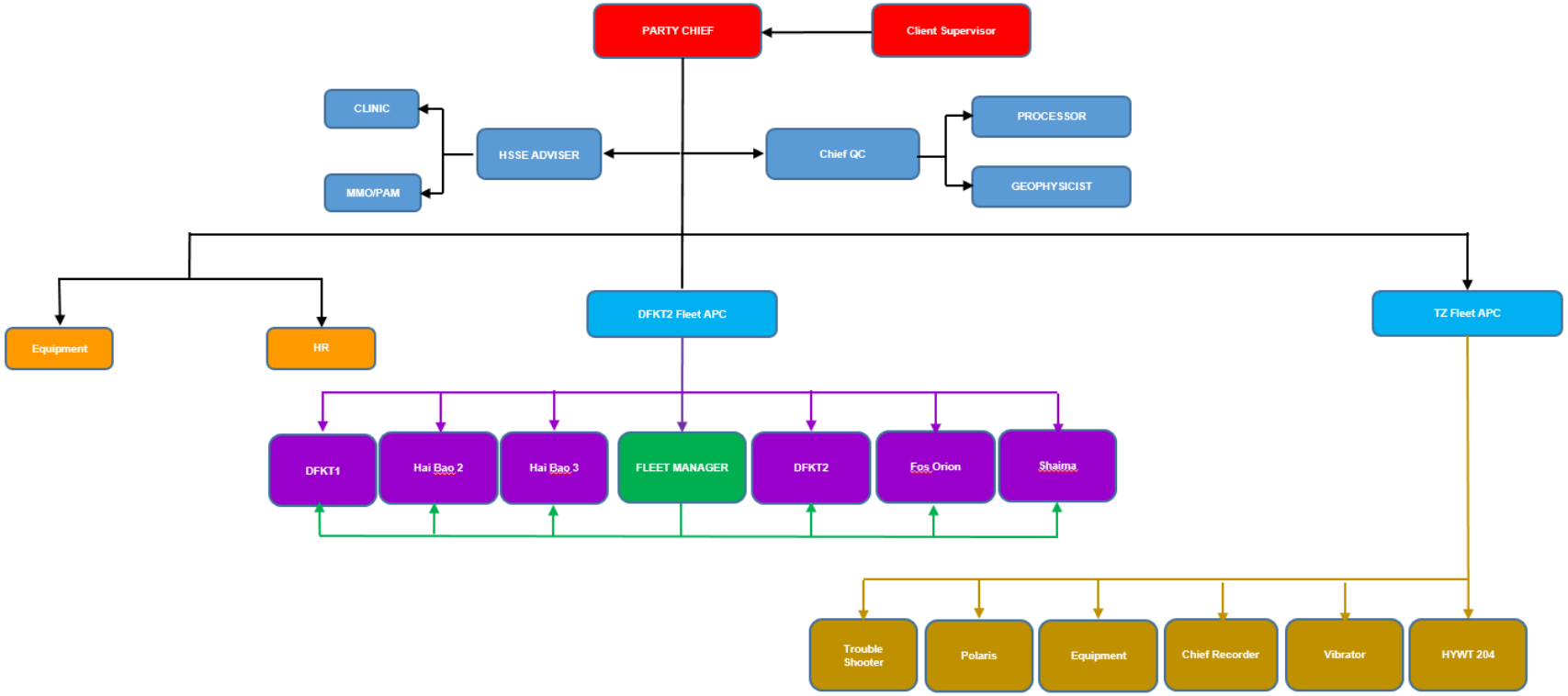
Geography and obstacle





Organization Chart

ADNOC 3D CREW 254 ORGANIZATION CHART



Vessel List and Key Equipment List

S/N	Vessel Type	Vessel Name	IMO	LOA	Beam	Draft	Comment
1	Node Vessel	DFKT2	9397418	65.8	13.8	3.6	Controlling Vessel
2	Node Vessel	FOS ORION	9510412	60.0	11.0	2.2	
3	Source Vessel	DFKT1	9417385	65.8	13.8	3.8	
4	Source Vessel – Single	Haibao 3	8342820	38.1	8.2	2.1	
5	Source Vessel – Single	Haibao 2	8742044	37.0	8.0	2.0	
6	Mini-source vessel	HYWT204	9885207	23.8	8	1.2	
7	Crew Boat	Shaima	9847750	40.3	7.8	1.30	
8	Work Boat	FangLan 26&27					

Category	Equipment Name	Model	Planned Qty.
Recording	OBN	GEOSPACE OBX-750E	8400
Navigation	Acoustic Positioning System	Sonardyne Transceiver	4
Navigation	Acoustic Positioning System	Sonardyne Transponder	3500
Navigation	Integrated Navigation System	Dolphin	13
Navigation	DGPS	Veripos	13
Navigation	RGPS System	Seatrack	3
Airgun	Airgun Array	Bolt 1900 LLXT – HAI BAO 2	20
Airgun	Airgun Array	Bolt 1900 LLXT – HAI BAO 3	20
Airgun	Airgun Array	Bolt 1900 LLXT DFKT 1	40
Processing	Processing System	Processing System	2

Vessels for project

Node Vessel – DFKT2

Node Vessel - FOS ORION

Node Vessel - Fanglan

Work Boat- Polaris

Source Vessel – DFKT1

Source Vessel - HAI BAO 2

Source Vessel - HAI BAO 3

Mini-Source Vessel – HYWT204

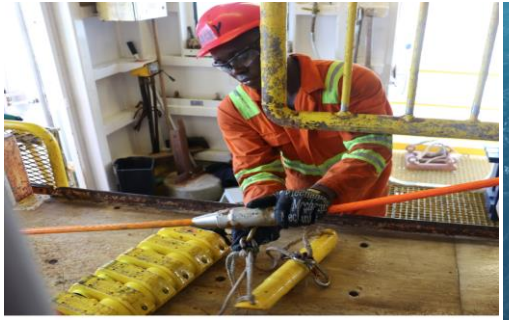
Ping Boat – Shaima

Personnel Configuration

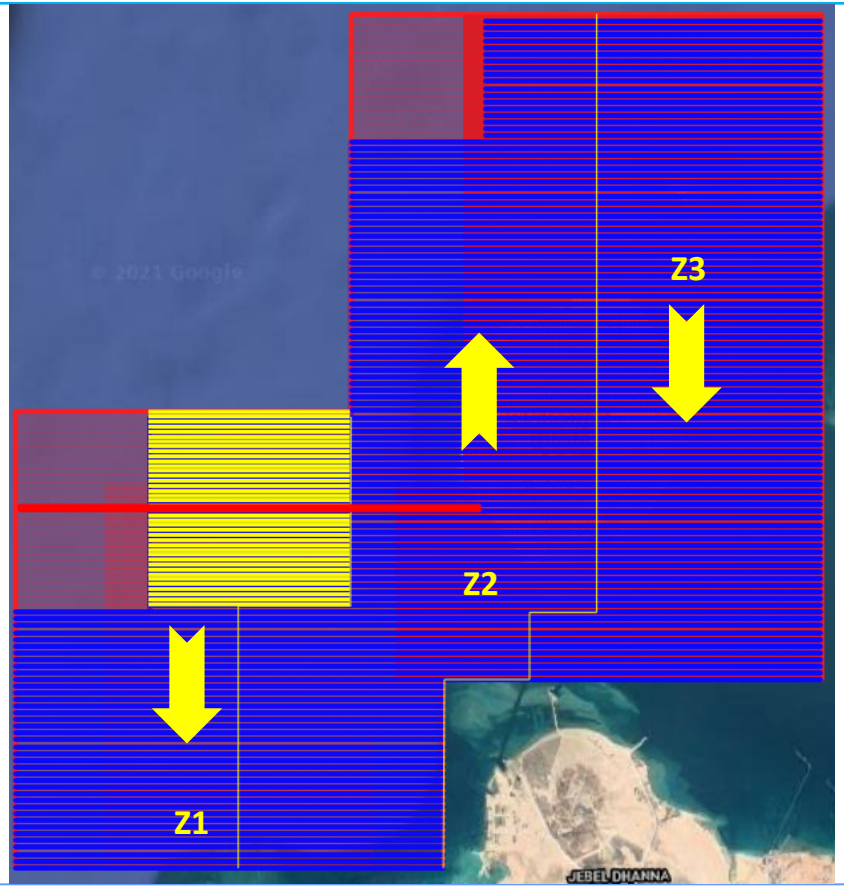
S/N	Location	Marine	Client	PC/APC	FM	HSE		Technic			NAV			G&M	OBS	BACK DECK				GUN			MEDIC	MMO	Shore	POB
						Advisor	Assist	Chief	QC	Processor	Chief	Leader	NAV			Leader	LCE	MECH	Node Man	Chief	Leader	Gunner		PAM		
1	DFKT2	20	2	2		1		1	3	1	1	2	1		3	2	2		6				1			48
2	FOS	17		1		1					1		1		2	2	2		6				1			34
3	DFKT1	19	2	1		1					1	2	3							1	2	4	1	2		39
4	HAIBAO2	12										1	1							1	3			2		20
5	HAIBAO3	12										1	1							1	3			2		20
6	Shaima	10										1	1													12
7	Shore Manager																								2	2
8	SBY Island		1	2	1	1	1	1	1		1		3	1	50								1	1	12	77
POB	DEPARTMENT	90	5	6	1	4	1	2	4	1	4	7	11	1	55	4	4		12	3	8	4	4	7	14	252
POB	DEPARTMENT	90	5	6	1	5		7			22			1	55	20				15			4	7	14	252
POB	DEPARTMENT	90	5	143																					14	252

Mobilization Progress - Equipment

Category	Equipment Name	Model	Planned Qty.	Status
Recording	OBN	GEOSPACE OBX-750E	8400	Ready
Navigation	Acoustic Positioning System	Sonardyne Transceiver	4	Ready
Navigation	Acoustic Positioning System	Sonardyne Transponder	3500	Ready
Navigation	Integrated Navigation System	Dolphin	13	Ready
Navigation	DGPS	Veripos	13	Ready
Navigation	RGPS System	Seatrack	3	Ready
Airgun	Airgun Array	Bolt 1900 LLXT – HAI BAO 2	20	Ready
Airgun	Airgun Array	Bolt 1900 LLXT – HAI BAO 3	20	Ready
Airgun	Airgun Array	Bolt 1900 LLXT – DFKT 1	40	Ready
Processing	Processing System	Processing System	2	Ready

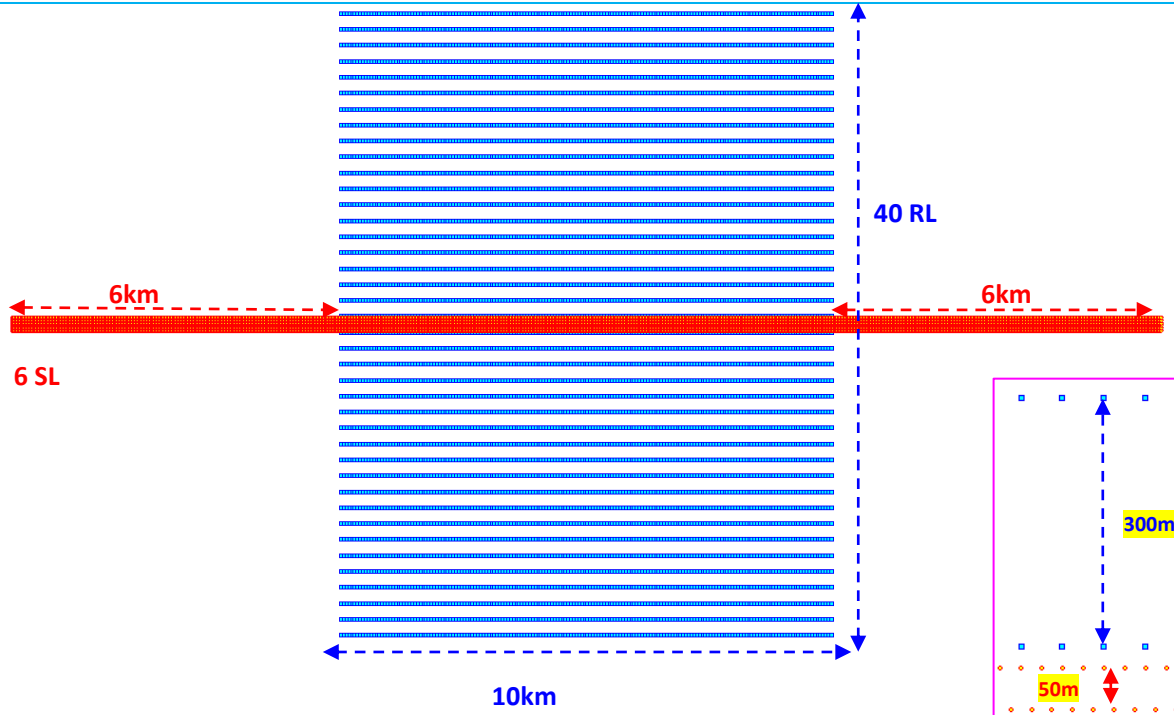


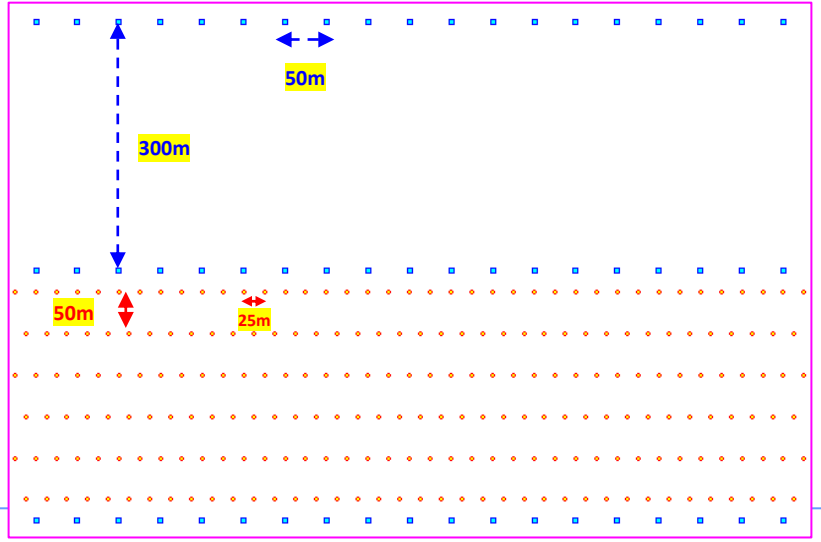
Zipper Definition and Designing



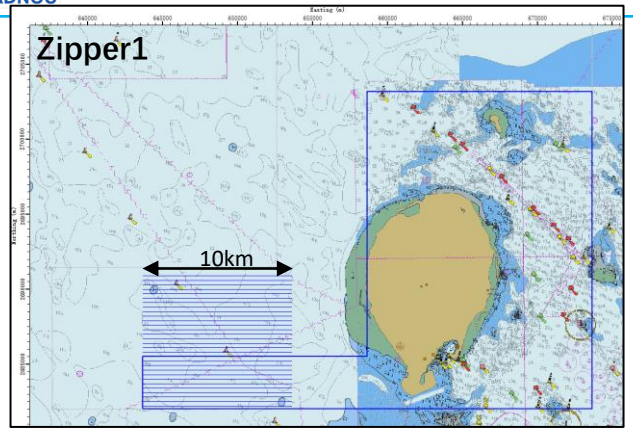
Zipper	RL-km	RP-km²	Source Point
Z1	40L-9km	189.795	315,666
Z2	40L-11km	371.97	599,754
Z3	40L-10km	300.63	401,337
Total		862.395	1,316,757

Geometry

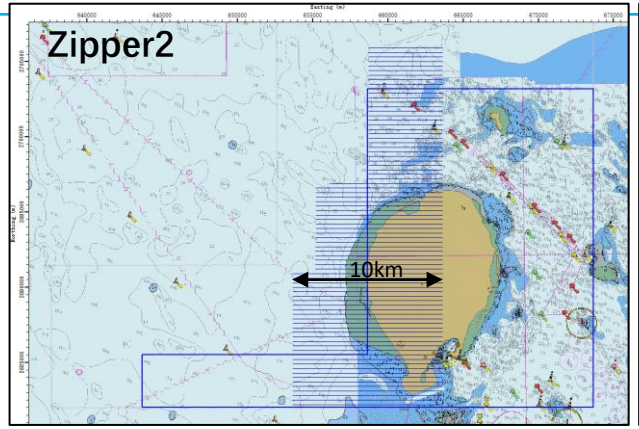




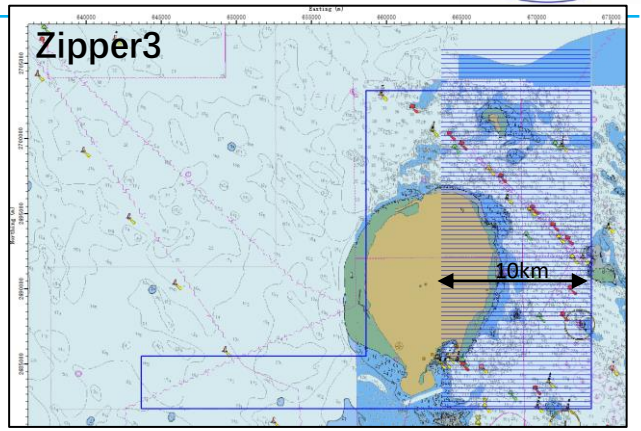
Receiver and shot layout



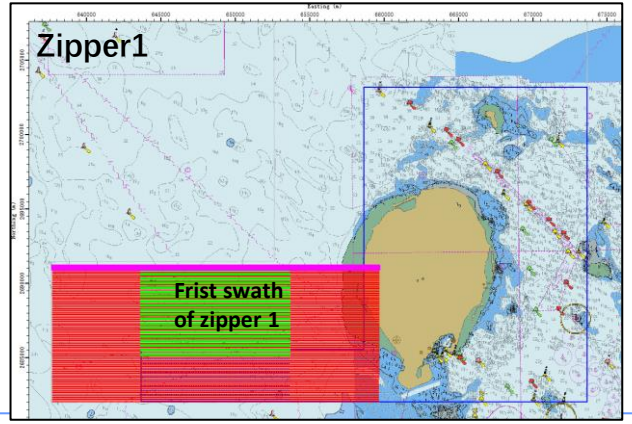
Receiver



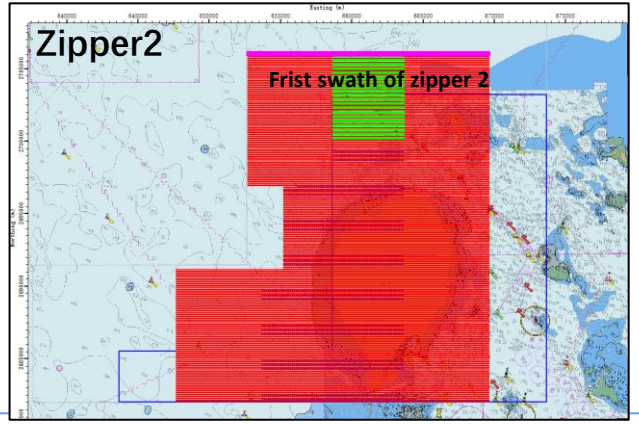
Receiver



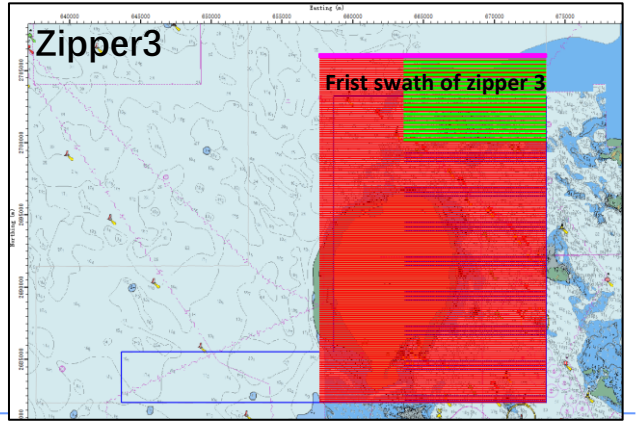
Receiver



Receiver and shot

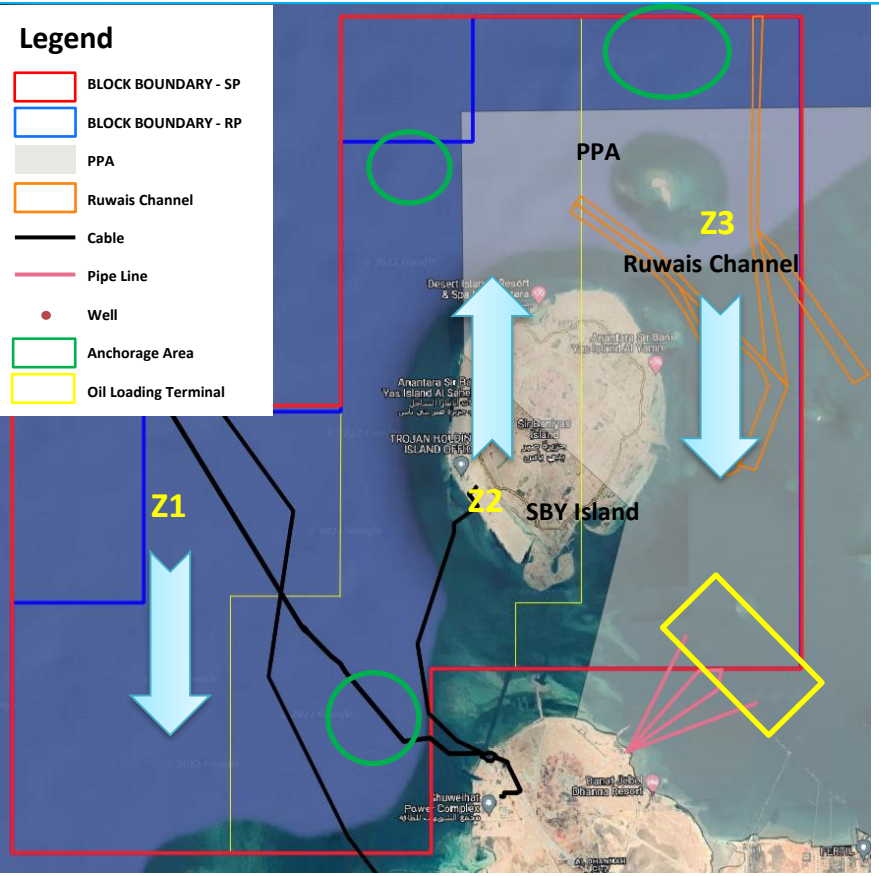


Receiver and shot



Receiver and shot

Acquisition Sequence and Schedule



S/N	Zipper	Direction	KM²	SPS	Days
1	Z1	N-S	189.795	315,666	27
2	Z2	S-N	371.97	599,754	53
3	Z3	N-S	300.63	401,337	40
Total	3		862.395	1,316,757	120

Operation Schedule

Z1: From 1st May 2022 to 27th May 2022

Z2: From 28th May 2022 to 10th July 2022

Z3: From 11th July 2022 to 28th Aug 2022

Operation Statement and Crafts - Bathymetry Survey

I	Bathymetry Survey
II	Node Deployment
III	Acoustic Positioning
IV	Seismic Source
V	Node Retrieval

SN	latitude and longitude	
1	24° 19.6610'N	52° 21.4119'E
2	24° 19.5772'N	52° 30.2720'E
3	24° 29.1781'N	52° 30.3882'E
4	24° 29.0455'N	52° 42.8213'E
5	24° 12.9579'N	52° 42.6049'E
6	24° 13.0645'N	52° 32.6286'E
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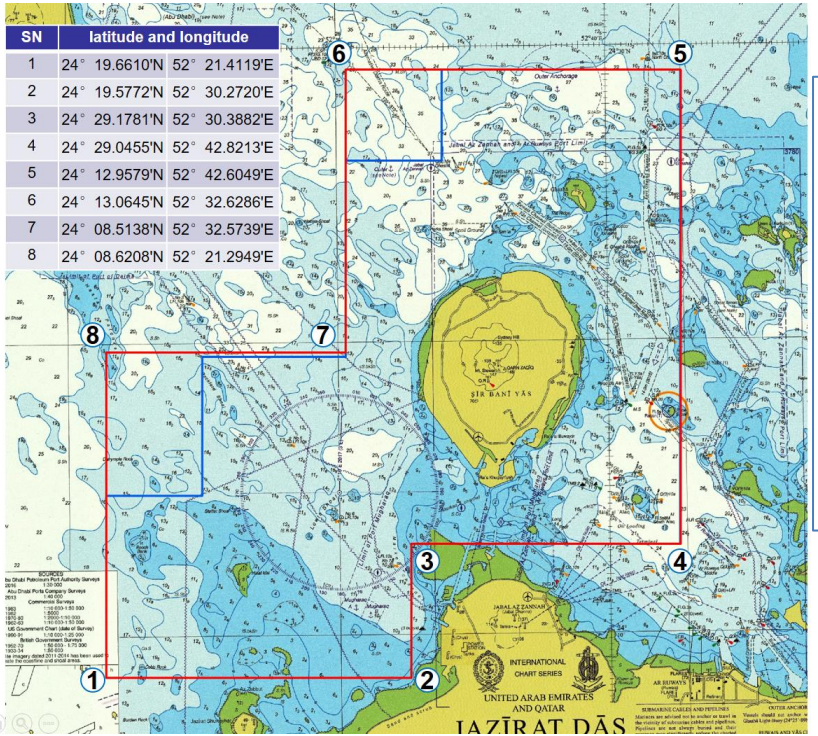
8	24° 08.6208'N	52° 21.2949'E



Shaima

Fos Orion

- Bathymetry Survey to gather water depth information and identify surface obstacles coordinates;
- The vessels will keep sailing in 3-5 knots speed during the operation.

Operation Statement and Craft- Node Deployment

I	Bathymetry Survey
II	Node Deployment
III	Acoustic Positioning
IV	Seismic Source
V	Node Retrieval

DFKT2

Node vessel

FANGLAN 28/29/30

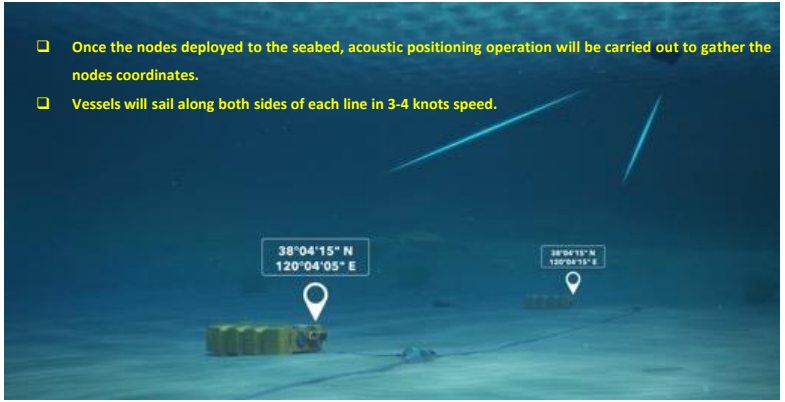
Node Craft

Fos Orion

Node vessel

Operation Statement and Vessels - Acoustic Positioning

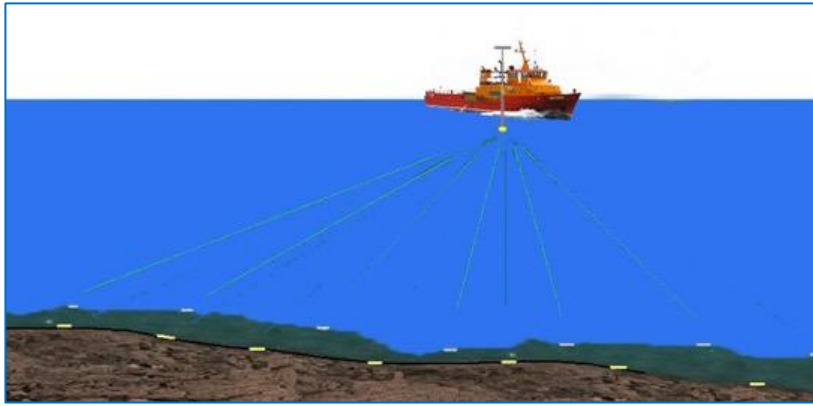
I	Bathymetry Survey
II	Node Deployment
III	Acoustic Positioning
IV	Seismic Source
V	Node Retrieval



- Once the nodes deployed to the seabed, acoustic positioning operation will be carried out to gather the nodes coordinates.
- Vessels will sail along both sides of each line in 3-4 knots speed.

Shaima

Fos Orion



Operation Statement and Crafts - Seismic Source

I	Bathymetry Survey
II	Node Deployment
III	Acoustic Positioning
IV	Seismic Source
V	Node Retrieval

Deep water gun boat DFKT1

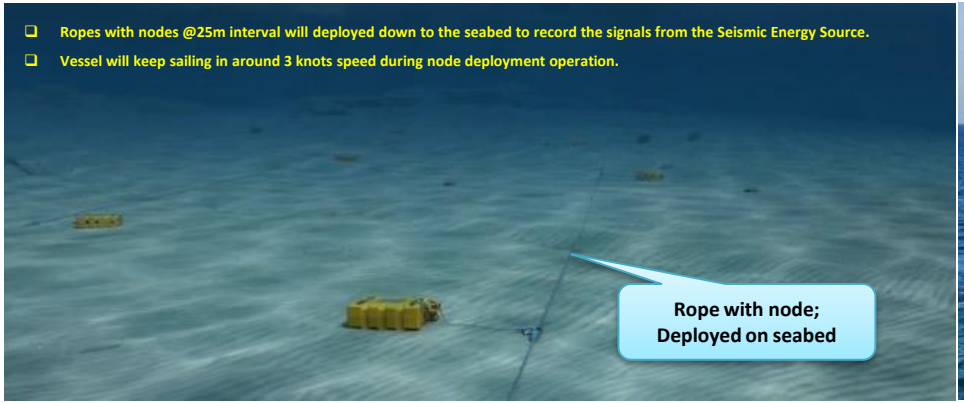
Shallow water Source Vessel - HAI BAO 2 and HAI BAO 3

Extremely shallow water source vessel HYWT204

- Seismic Source Operation will be conducted by vessel with towing equipment up to @4m depth.
- Nodes on seabed will listen the signal from the seismic source.
- Seismic Source Vessel will keep sailing in 3.5-4.5 knots speed.

Operation Statement and Craft- Node Deployment

I	Bathymetry Survey
II	Node Deployment
III	Acoustic Positioning
IV	Seismic Source
V	Node Retrieval



DFKT2

Node vessel

FANGLAN 28/29/30

Node Craft

Fos Orion

Node vessel

THANKS

BGP INC., CHINA NATIONAL PETROLEUM CORPORATION