

# Assessment of Contractor Training Programme

— COMRA





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# The view on capacitybuilding measures of China

To Co-build a Martime community with a shared future



#### China's view on capacity-building measures

**WINCLOS, Part XI, Article.** 136

-The Area and its resources are the common heritage of mankind (CHM) UNCLOS, Part XI, Article. 143

- The Authority shall promote and encourage the conduct of marine scientific research in the Area, and shall coordinate and disseminate the results of such research and analysis when available.
- UNCLOS, Part XIV, Article. 273

-States shall cooperate with the Authority to encourage and facilitate the transfer of kills and marine technology to developing States, their nationals and the Enterprise.

These Articles highly accord with Chinese Concept "Co-build a Martime community with a shared future".





**Overview of Contractor Training Programme and impact** 



**©** China became a member State of UNCLOS .

COMRA(China Ocean Mineral Resources Research and Development Association) sponsored by Chinese Goverment has signed 3 contracts with ISA.



Polymetallic Nodules Contract 2001-2016 (extension 2016-2021)



Polymetallic Sulphides Contract 2011-2026



Cobalt-rich Crusts Contract 2014-2029

In Accordance with :

UNCLOS,Annex III,Article. 15 - The legal obligations of contractors with regard to training «Decision of the Assembly of the International Seabed Authority regarding the amendments to the Regulations on Prospecting and Exploration for Polymetallic Nodules in the Area » ISBA/19/A/9 «Decision of the Assembly of the International Seabed Authority relating to the regulations on prospecting and exploration for Polymetallic Sulphides in the Area » ISBA/16/A/12 REV. 1 «Decision of the Assembly of the International Seabed Authority relating to the Regulations on prospecting and Exploration for Cobalt-rich Ferromanganese Crusts in the Area » ISBA/18/A/11 «Recommendations for the guidance of contractors and sponsoring States relating to training programmes under plans of work for exploration » ISBA/19/LTC/14

**Providing training opportunities** for personnel from developing States and the Enterprise is a way of **Benefit Sharing and Contribution by COMRA**.









#### **Total: 33 opportunities**



9 opportunities ( including 4 opportunities nominated by the Preparatory Commission, August 1995 )



Polymetallic Sulphides Contract

14 opportunities ( 1 was gave up )



#### Cobalt-rich Crusts Contract

10 opportunities ( 2 were gave up )

Although they would not be provided other opportunities, some candidates still gave up the opportunities for their own reasons.

#### **Polymetallic Nodules Contract**—9 opportunities before 2016

Types	Topics	Opportunities
At-sea training	On-board abilities	2
Master Programme	Marine Science	2
Ph.D Programme	Marine Science	1
٣	5	

• 4 trainees were trained under the training programme nominated by the Preparatory Commission, August 1995

#### Polymetallic Sulphides contract - 14 opportunities (1 candidate gave up)

Types	Year	Topics	Opportunities	Name of trainees
At-sea training	2014	Geological sampling and analysis; geophysical data collection/analysis; environmental studies.	2	Dieudonne Tchokona Seuwui (M, Cameroon) Apichai Kanchanapant (M, Thailand)
	2014	Geological sampling and analysis; geophysical data collection/analysis; environmental studies.	2	Analía Verónica Serra (F, Argentina) 1 candidate gave up
Engineering and technical training	2015	Marine survey techniques ; marine engineering and techniques indoor; mining, metallugical processing technology.	2	Md.Minhaj Uddin Monir (M, Bangladesh) Natia Anzori Chomakhidze (F, Georgia)
Fellowship training	2015	Marine survey techniques ; Marine sciences; assessment of distribution and abundance of deep-sea mineral resources	2	Reinier Giralt Ortega (M, Cuba) Natalia Amezcua Torres (F, Mexico)
At-sea training	2019	Operation and use of survey equipments (Geology, geophysics, biology); adaptive path planning for polymetallic sulphides exploration; Marine microbiology .	6	Alana A Mina (F, Argentina) Win M Than (M, Myanmar) Tomas Helle Pessot (M, Chile) Keanu Jershon Sarmiento (M, Philippines) Josephine Njeru (F, Kenya) Syntyche B Harun (F, Nigeria)

Total

#### **Cobalt-rich Crusts contract** - 10 opportunities (2 candidates gave up)

Types	Year	Topics	Opportunities	Name of trainees
At-sea training	2017	Geological sampling and analysis; geophysical data collection/analysis; environmental studies; Introduction to submersibles and the operation of HAIMA ROV; Sampling and description of geological samples;	5	Noah Awuntigi (M, Ghana) Elizabeth A. Perez Gonzalez (F, Mexico) Naftaly Osoro Nyakundi (M, Kenya) 2 candidates gave up
Fellowship training	2017	Marine sciences; geological and geophysical survey techniques ; Marine sciences; mining, metallurgical, processing technology.		MD Bazlar Rashid (M, Bangladesh) Gor Gevorgyan (M, Armenia) Mariana Benites (F, Brazil)
Engineering and technical training	2018	Deep-sea mining, metallurgical and processing technology; Visit to the Changsha Research Institute of Mining and Metallurgy, and the Central South University (CSU) etc.	2	Karla Tituana Baren (F, Eucador) Koffi Vossah Messan (M, Cameroon)

## Funds expended on Training Programmes of 3 contracts : approximately \$820,000











**"This Program Training was a pleasant experience for both my vocational training and my personal growth.** As a mining engineer, I am aware of the importance of minerals for the development of industry and the society of today.

------ Karla Tituana(Ecuador) Cobalt-rich Crusts Contract-Engineering and technical training, 2018







"The training experience was highly informative and rewarding. ... Without a doubt, the training has added significant value to my skill set as a marine researcher..... The valuable networks and friendships formed in the course of the training will indeed be useful in forming future collaborations in marine research.

----- Josephine Njeru (Kenya) Polymetallic Sulphides Contract At-sea training, 2019



- Increased participation of developing States in the work of ISA and in activities undertaken in the Area
- Increased skills and additional competences amongst developing States
- **Improved management practice of seabed activities**



Increased protection and conservation of marine biodiversity





# **Other capacity-building schemes B Super capacity-buildin implemented by China**

Endowment Fund for Marine Scientific Research(EFMSR).



## • Other capacity-building schemes implemented by China

- In Accordance with 《Decision of the Assembly of the International Seabed Authority relating to the terms of reference, guidelines and procedures for the International Seabed Authority Endowment Fund》 (ISBA/13/A/6)
- China donated \$ 20,000 to the Endowment Fund for Marine Scientific Research in the Area(EFMSR) of ISA in 2019.
- Chinese institutions, such as Marco Polo-ZhengHe, Shanghai Jiao Tong University, Second Institute of Oceanography, have benefited from EFMSR. And they have provided 32 opportunities for developing States.





## **Challeges and Solutions**

**Challenges and Potential Solutions of capacity-building programme** 



- Training Programme provided by Contractors alone cannot satisfy the priority needs and the specific needs of integrated participation by developing States in the activities undertaken in the Area.
- Candidates are suggested to receive the supports from their nations and organizations to attend the training programme on schedule in case of losing the precious opportunities
- It is difficult to ascertain that trainees would still work on deep-sea affairs after returning to their parent organizations, which may lead to a waste of training experiences.
- There is a lack of effective cooperation between training programmes of different contractors.





#### **Establish co-training centers**

Establish co-training centers, such as JTRC in China, to elaborate multiple forces, especially the support by governments.



Nominated nations are suggested to protect the trainees' rights and interests and support them in contributing themselves to deepsea affairs by utilizing the skills from training programmes.





## Conclusion

Summarize China's Training Programmes





- China has provided 33 opportunities under CTP (overall costs is approximately \$820,000) and 32 opportunities under EFMSR for developing States.
- COMRA Traning Programmes improved skills, management practice of seabed activities of trainees from developing States.
- There are still many chanllenges during performance of CTP and EFMSR.
- COMRA provide some potential solutions, eg establishing co- centers, support from nations and strenghten International Cooperation.

China will further promote the implementation of the principle of the common heritage of mankind and cobuild a Maritime Community with a Shared Future.

# Thank you for your attention

