Application Guideline for Survey on undeveloped copper resources and uncollected by-products.

8th October, 2019
Japan Oil, Gas and Metals National Corporation

JOGMEC invites a contractor for Survey on undeveloped copper resources and uncollected by-products. Applicants, who wish to respond to this RFP, must submit their proposal in accordance with the following instructions.

1. Title of Work
Survey on undeveloped copper resources and uncollected by-products.

2. Purpose
Currently, in the field of metal resource development, the number of excellent deposits has decreased, and issues such as low grade, increased impurities and deepening of ore bodies have become a major problem. The commonly found ores of oxide or secondary copper sulfide are treated by hydrometallurgical process such as heap leaching while primary copper sulfide are subjected to pyrometallurgical treatment following concentrate production by flotation. However, the increasingly occurring low-grade primary copper sulfide ore presents a challenge during heap leaching due to longer time spent in copper leaching. Similarly, it is difficult to produce concentrate by flotation due to gangue association. With respect to the challenges presented, the need for continuous technological development is a necessity to the treatment of current copper ores.

There is a significant amount of low-grade copper deposits in Chile that are hosted in carbonate rock. However, the mineralogical association of copper with carbonate makes it difficult for efficient extraction by leaching because of high acid consumption by the carbonate, and flotation is an ineffective because the copper ore is an oxide. Additionally, there are other copper deposits that are difficult to develop due to high amount of impurities while other copper deposits have a complex association with other valuable materials that are difficult to separate.

Therefore, in this survey, investigation will be carried out on copper deposits as described above, that have potential for copper resources but are currently not suitable for development due to technical constrictions. Additionally, copper deposits that may be economical viable by recovering by-products sufficiently are considered. Through the investigation, technical issues will be identified and new technologies that solve these issues will be proposed. Finally, this survey will be used for JOGMEC to identify the themes for their technical development projects that will be implemented in the future.

3. Scope of Work
With investment by Japanese companies in mind, copper deposits and/or regions in the North and South American continents which have potential as copper resources, but have not been developed due to technical issues (on mineral processing and hydrometallurgical process) will be addressed. Additionally, deposits that have potential economic increment by recovering by-products will be considered by developing efficient mineral processing technologies. For each ore deposit and/or regions, these technical issues will be identified and classified to propose new technologies that have technological and economical significance.

1. Data analysis for Deposits and/or Region

Through literature surveys, undeveloped copper deposits and/or regions in the North and South American continents that have potential as copper resources and that contain many by-products will be discovered. The information discovered from rigorous survey of the copper resources will be used to identify challenges that might not have been discovered or are a major technical problem. Similarly, we intend to use the studies to identify potential economic value for by-products that cannot be completely recovered from copper ores.

2. Survey of new technologies

New technologies applicable to the technical issues will be extracted from literature surveys.

3. Summary

Summarize the results of Section (1) and (2)

4. Summary of a contract

1. Type of Contract

Service contract.

2. Term

Term of the contract will be from an effective date to 13th March, 2020.

3. Budget

Up to US$50,000 including all taxes.

4. Work products

The final report shall be sent by email in MS word format and PDF format

5. Copyright

Copyright of the deliverables will attribute to JOGMEC. The deliverables submitted to JOGMEC will not be disclosed to third parties.

5. Schedule (JST)

8th October, 2019: Opening date for application (published on the JOGMEC website).
7th November, 2019: Closing date for application.

6. Required conditions for applicant

Applicants should fulfill all the following requirements.

1. An applicant shall not be currently under a suspension of business order as instructed by Japanese government administrative organization.
(2) An applicant should have satisfactory and sufficient records of technical consulting service in metal mining industry of the world.

(3) An applicant should involve specialists having expertise of geology, resources/reserves estimation, geotechnical engineering, hydrogeology, mining, mineral processing, metallurgy, tailings management, transportation, infrastructure, reclamation, etc. for the work.

7. Proposal submitted to JOGMEC

(1) Deliverables

① Proposal

Applicants shall submit their proposals which include and satisfy all of the following items. Applicants are required to use Appendix 2 as a proposal form. The proposals should be written in English or Japanese language.

a) Cover page including Title of Work, date, applicant name and its representative with signature.

b) Representation of satisfying the required conditions for applicant listed above under Item 5 of this guidelines.

c) Service to be provided (Work plan in accordance with the Scope of Work described in Item 3 of this guidelines).

d) Applicant’s experiences and work records in similar consulting services to the Scope of Work for the last five years.

e) Work organization including project organization diagram, networks with other consultants and blanches inside and outside the country, security protection framework, possible project manager and staff for the Work and their roles, and contact person).

f) Profile of the person in charge with CV (Please show name, area of expertise, title, job experience, qualifications and awards in relevant area of expertise of all potential technical personnel in charge of the Work).

g) Quotation with detailed breakdown.

② Accompanying materials

a) Audited financial statement for the last three years.

b) If applicants have admitted by the government or institution as the company caring “work-life balance” of the employee, please submit the copy of the certificate, which is also to be evaluated. For foreign companies, the copy of the confirmation of verification of appropriateness for certification of corporations promoting measures such as work-life balance 2 issued by Gender Equality Bureau Cabinet Office or any other similar certificates admitted by other countries/organizations may be substituted for the preceding certificate.

(2) Submission of proposal

Applicants shall submit their proposal in PDF or Microsoft Word format by e-mail to the contact persons listed below under Item 6 (4) of this guidelines by the time specified under
Item 6 (3) of this guidelines. Please be advised that our mail server could not accept a file which is larger than 10MB. In that case, please split it into the smaller files. Any proposal submitted other than by e-mail shall not be accepted nor reviewed.

(3) Due date
Your proposal must be submitted to the contact persons before 5:00 p.m. on 7th November, 2019 JST

(4) Contract person
(Mr.) Tatsuhiro Ono: ono-tatsuhiro@jogmec.go.jp
Metals Strategy & Exploration Unit, Metals Mining Technology Department, JOGMEC

(5) Briefings to applicants
JOGMEC does not hold any information sessions about this invitation.

(6) Handling of proposals
Proposals submitted to JOGMEC will be used solely for the purpose of selection of a potential contractor. Please understand that JOGMEC may not return the proposal back to applicants.

8. Evaluation of proposals
(1) Evaluation criteria
JOGMEC will evaluate proposals and accompanying materials submitted by applicants who satisfy the conditions provided in Item 6 of this guidelines in response to RFP by due date specified under Item 7 (3) of this guidelines in consideration of the following criteria:

① Applicant’s competence, work organization, experiences
a) Work plan in proposals shall be in accordance with the Scope of Work described in Item 3 of this guidelines.
b) In consideration of the Work plan and technical fields to be provided, an applicant should have any advantage.
c) It is desirable that an applicant is in good financial conditions.
d) An applicant should be able to respond to JOGMEC’s request properly and quickly under its work organization.
e) An Applicant should have networks with other consultants, branches inside and outside the country and experienced human resources which contribute to the efficiency at Work.
f) An applicant shall have work records in similar consulting services to the Scope of Work at least once a year in the last five years.
g) An applicant should have satisfactory and sufficient work records similar duties described above or experiences which contribute to the Work for the last five years.

② Competence of the person in charge
a) The person in charge shall have enough knowledge, abilities, experiences and the past work records in similar consulting services which contribute to the work as
...stated Item 2 of this guidelines.

b) The person in charge should have superior ability and experience; and has any useful qualifications or receives any awards in relevant area of expertise.

③ Proposed quotation should be cost-effective and reasonable.

④ It is desirable that an applicant is admitted by the government or any other institution as the company caring “work-life balance” of the employee.

Applicants who received the highest scores would be selected as potential contractors through this evaluation. However, regardless of the score, an applicant would be disqualified if its proposal fails to meet any underlined conditions.

(2) Announcement of the result

The result will be notified in writing individually to the representatives of all applicants. Companies’ name and address of selected applicants will be announced on the JOGMEC website after service contracts are signed.

9. Conclusion of a contract

Potential contractors shall submit a formal quotation reflecting its proposal. JOGMEC will negotiate the details of contract with each potential contractor. If JOGMEC and the potential contractors reach an agreement, the parties execute a service contract.

10. Notes

① JOGMEC may not take any liability for costs or expenses incurred by applicants in the process of preparation and submission of their proposals.

② JOGMEC may not receive any applications after the due.

③ A proposal has to include requirements for RFP. If not, the application will be disqualified.

④ Any inquiries regarding the evaluation processes and results shall not be accepted.

End of “Application Guidelines”