



MEMORANDUM

THE PHILIPPINE STOCK EXCHANGE, INC.

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| <input type="checkbox"/> Trading | <input type="checkbox"/> Public Advisory |
| <input type="checkbox"/> Disclosure | <input type="checkbox"/> Administrative/Technology Matters |
| <input type="checkbox"/> Listing | <input checked="" type="checkbox"/> Others: |

Proposed 2020 PMRC IRR

TO : ALL CONCERNED STAKEHOLDERS

SUBJECT : PROPOSED IMPLEMENTING RULES AND REGULATIONS OF THE PHILIPPINE MINERAL REPORTING CODE 2020 EDITION

DATE : April 12, 2024

The Exchange is inviting all concerned parties to submit their comments to the proposed Implementing Rules and Regulations (“IRR”) of the Philippine Mineral Reporting Code (“PMRC”) 2020 Edition (“2020 Code”).

The proposed IRR provides listed mining and exploration companies and those applying to list in the Exchange with guidelines in complying with the reporting standards provided in the 2020 Code. The 2020 Code took effect on September 20, 2021, subject to a 2-year transitory period which ended on September 19, 2023.

The proposed IRR is a revision of the 2007 PMRC IRR and was drafted by the PMRC Committee to align with the new provisions of the 2020 Code. The initial draft of the proposed IRR underwent a public hearing on October 27, 2023.

Subject to the transitory provisions, the proposed IRR shall supersede the 2007 PMRC IRR.

The following are the salient changes incorporated in the proposed IRR:

- Changes in the companies covered by the proposed IRR (*see Section 2*):

2007 PMRC IRR	Proposed IRR
Companies whose primary purpose is to engage in mining, mineral development, or exploration activities	Companies whose primary purpose includes engaging in Mining Operations and/or Mineral

	<u>Exploration, whether or not currently engaged therein</u>
Companies classified under the mining sector	Companies classified under the mining <u>industry</u>
Companies which regularly engage in mining or exploration activities	Deleted; deemed incorporated in the first category
Companies with an equity or participating interest in companies or partnerships regularly engaged in mining or exploration activities, the value of which is at least 10% of the book value of the listed company	<u>Listed</u> companies with an equity or participating interest in companies or partnerships regularly engaged in <u>Mining Operations</u> or <u>Mineral Exploration</u> , the <u>cost of investment</u> of which is at least 10% of the book value of the listed <u>investor</u> company <u>based on its latest audited financial statements and available interim financial statements</u>
-	<u>Holding companies listed with the Exchange with unlisted subsidiary/ies that is/are under the mining industry or primarily or regularly engaged in Mining Operations and/or Mineral Exploration</u>
-	<u>A listed company's or a listing applicant's subsidiary which falls under any of the categories above, whether or not such subsidiary is listed or is applying for listing</u>
Such other companies as may be determined by the Exchange to ensure full, fair and accurate disclosures of material information	Such other companies as may be determined by the Exchange to ensure full, fair and accurate disclosures of material information

2. Adoption of new terms introduced in the 2020 Code (e.g., “Accredited Competent Person” instead of “Competent Person”, “Mineral Reserve” instead of “Ore Reserve”); addition of new terms (e.g., Mining Operations and Data Cut-off Date); removal of old terms (e.g., Disclosures); and revisions to the definition of some terms to align with the 2020 Code (e.g., “Public Reports” are now defined as reports prepared for the purpose of informing investors or potential investors and their advisers, on Exploration Results, Exploration Targets, Mineral Resources, Mineral Reserves and/or metallurgical assessments and design);
3. Clarification that a Public Report submitted to the Exchange should include a statement from the Accredited Competent Person (“ACP”) that he/she has conducted Data Verification and Data Validation of the data disclosed in the Public Report (see Section 4.2);
4. Annual reporting of any Exploration Results, Exploration Targets, Mineral Resources, and Mineral Reserves, to be included in the Annual Report (SEC Form 17-A), and quarterly reporting of any Exploration Results, to be included in the Quarterly Report (SEC Form 17-Q) (see Sections 4.5.2 and 4.5.3);
5. Disclosure on Environmental, Social and Governance considerations using established sustainability reporting frameworks and standards, which will be voluntary for the first three (3) years from date of effectivity of the proposed IRR (without prejudice to extensions as may be warranted), and mandatory moving forward (see Section 4.6);
6. Requirement for Technical Reports to be submitted to the Exchange within eighteen (18) months from Data Cut-off Date (see Section 5.1);
7. Changes in the events requiring a Technical Report (see Section 5.2):

2007 PMRC IRR	Proposed IRR
Application for initial listing in the Exchange	Any capital-raising activity conducted <u>through</u> the Exchange <u>including, but not limited to,</u> applications for initial listing, follow-on offerings, stock rights offerings <u>and private placements:</u> <u>i. The listing date of the securities for which the Technical Report was used</u>
Any capital-raising activity conducted in the Exchange, such as Initial Public Offering, Follow-on Offering and Stock Rights Offering	

	<p><u>should not be more than 18 months from Data Cut-off Date of the Technical Report</u></p> <p><u>ii. If the company fails to list within the prescribed 18 month period above, a new Technical Report must be submitted. However, should there be no or only minor changes to the Technical Report after the 18 month period, the company is required to submit either a notarized certification from the ACP stating that there have been no changes of material nature to the Technical Report or a supplemental Technical Report, reflecting the changes</u></p>
When reporting Mineral Resources and/or Ore Reserves for the first time	When reporting Mineral Resources and/or Mineral Reserves for the first time
When there is a 100% increase or 50% drop in the Mineral Resources and/or Ore Reserves of the Issuer (for exploration companies and operating mines)	When there is 100% increase or 50% decrease in the Mineral Resources and/or Mineral Reserves <u>within the Mineral Property from the most recent Public Report prepared by the ACP</u>
Submission of a Final Feasibility Study (for companies at development stage)	Deleted The classification of covered companies into exploration companies, companies at development stage and operating mines was also removed.

8. More comprehensive TR-Forms 1, 2 and 3, which must be accomplished in accordance with the “if not, why not” principle;

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9. Clarification on the following (see Section 6):

- a. Only Public Reports that comply with the reporting standards under the 2020 Code and the guidelines under the IRR shall be accepted by the Exchange for listing and/or disclosure purposes;
- b. Failure to include any attachment, document, or material information required under the 2020 Code and the IRR to a Public Report filed with the Exchange shall be equivalent to non-submission of said report;
- c. Any violation of the listing and disclosure requirements applicable to the company/Issuer shall merit the imposition of the applicable penalties under the Exchange's Consolidated Listing and Disclosure Rules, as amended; and
- d. Any violation with respect to the professional code of ethics by an ACP involving misconduct and/or negligence over the preparation, review, and reporting of the Technical Reports and other Public Reports shall be investigated and, if warranted, penalized by the respective Professional Representative Organization (*i.e.*, GSP, PSEM or SMEP);

10. Incorporation of the following transitory provisions (see Section 7):

- a. Upon the approval of the IRR, all Public Reports must be compliant with the 2020 Code and the IRR. Further, all covered entities are required to provide Technical Reports on Exploration Results, Exploration Targets, Mineral Resources, Mineral Reserves and metallurgical assessment and design to the Exchange relevant to their Mineral Property(ies) within two (2) years from the date of the approval of the IRR.
- b. The two-year transitory period above, however, does not apply to companies with capital-raising activities through the Exchange. For these companies, the Technical Report(s) that are fully compliant with the provisions of the IRR must be immediately submitted to the Exchange upon filing of the relevant listing application.
- c. Applicant companies intending to apply for listing with the Exchange prior to the approval of the IRR are highly encouraged to submit Technical Report(s) prepared in accordance with the 2020 Code, the draft of the IRR, and its TR-Forms posted on the Exchange's website; and

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11. Updated ACP Consent Form and Consent Statement (*see Annex II*), which must be notarized and attached to all Public Reports submitted to the Exchange for listing and/or disclosure purposes.

The proposed IRR is attached as Annex "A".

Comments may be sent to the Office of the General Counsel at ogc@pse.com.ph until **May 2, 2024**.

(Original Signed)
Ramon S. Monzon
President and CEO

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ANNEX "A"

IMPLEMENTING RULES AND REGULATIONS FOR THE PHILIPPINE MINERAL REPORTING CODE 2020 Edition

Prepared by the PMRC Committee composed of the Philippine Society of Mining Engineers, Geological Society of the Philippines, Society of Metallurgical Engineers of the Philippines, The Philippine Stock Exchange, Inc., Chamber of Mines of the Philippines, Philippine Mining and Exploration Association, the Philippines-Australia Business Council, and Philippine Chamber of Coal Mines

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1. FOREWORD

The Philippine Mineral Reporting Code 2020 Edition ("PMRC 2020" or the "Code"), sets out the minimum standards, recommendations, and guidelines for Public Reporting of Exploration Results, Exploration Targets, Mineral Resources, Mineral Reserves, and metallurgical assessments and design related to mining in the Philippines. The Code is an upgrade of the PMRC 2007 Edition and modeled substantially after the International Reporting Template (2019) of the Committee for Mineral Reserves International Reporting Standards (CRIRSCO) and the Australasian Code for Reporting of Exploration Results, Mineral Resources, and Ore Reserves (JORC Code) 2012 of the Australasian Joint

25 Ore Reserves Committee (JORC). In adopting the CRIRSCO Template 2019's sixteen (16) Standard
26 Definitions, the PMRC 2020 is compatible with the international reporting codes of the CRIRSCO's
27 members which are National Reporting Organizations (NROs) such as the Joint Ore Reserve
28 Committee (JORC) in Australasia, the Canada Institute of Mining, Metallurgy, and Petroleum (CIM) in
29 Canada, and the Pan-European Reserves and Resources Reporting Committee (PERC) in Europe.

30
31 These Implementing Rules and Regulations ("IRR") supplement the Code. Any doubt in the
32 interpretation of the provisions of the Code and this IRR shall be resolved in such manner that will
33 give effect to both provisions or that will be most consistent with the rationale and intent of the
34 provision(s).

35
36 This IRR provides listed mining and exploration companies and those applying to list in The Philippine
37 Stock Exchange, Inc. ("PSE" or the "Exchange") with guidelines in complying with the reporting
38 standards provided in the Code. The guidelines hereunder provided, however, are not exhaustive and
39 should not be construed as substitutes for other reporting obligations under other applicable laws,
40 rules, and regulations. This IRR aims to protect investors by ensuring full and timely disclosure of
41 reliable material information, prohibiting disclosure of misleading information, and preventing
42 fraudulent practices. This IRR also adopts the PMRC's Governing Principles of Materiality,
43 Transparency, and Competence.

44 45 46 **2. APPLICABILITY**

47
48 The PMRC 2020 and its IRR shall apply to the following listed companies and those applying for listing
49 in the PSE:

- 50
51 a. Companies whose primary purpose includes engaging in Mining Operations and/or
52 Mineral Exploration, whether or not currently engaged therein;
53
54 b. Companies classified under the mining industry;
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56 c. Listed companies with an equity or participating interest in companies or partnerships
57 regularly engaged in Mining Operations or Mineral Exploration, the cost of investment of
58 which is at least ten percent (10%) of the book value of the listed investor company based
59 on its latest audited financial statements and available interim financial statements;
60
61 d. Holding companies listed with the Exchange with unlisted subsidiary/ies that is/are under
62 the mining industry or primarily or regularly engaged in Mining Operations and/or Mineral
63 Exploration;
64
65 e. A listed company's or a listing applicant's subsidiary which falls under any of the categories
66 above, whether or not such subsidiary is listed or is applying for listing; and
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68 f. Such other companies as may be determined by the Exchange to ensure full, fair, and
69 accurate disclosures of material information.
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74 **3. GLOSSARY OF TERMS AND ACRONYMS**

75
76 3.1 **Accredited Competent Person (ACP)** is a minerals industry professional who is a Member
77 or Fellow of the Philippine Society of Mining Engineers (PSEM), the Geological Society of
78 the Philippines (GSP) or the Society of Metallurgical Engineers of the Philippines (SMEP),
79 duly accredited as an ACP by the professional organization to which he/she belongs, or of
80 a Recognized Professional Organization (RPO), as included in a list promulgated by PSEM,
81 GSP, and SMEP through the Philippine Mineral Reporting Code Committee (PMRCC) as
82 the need arises, subject to the applicable laws and regulations. These professional
83 organizations have enforceable disciplinary processes including the powers to suspend or
84 expel a member. An ACP must have a minimum of five (5) years relevant experience in
85 the style of mineralization or type of Mineral Deposit under consideration and to the
86 activity which that person is undertaking. If the ACP is preparing a report on Exploration
87 Results and/or Exploration Targets, the relevant experience must be in exploration. If the
88 ACP is estimating, or supervising the estimation of Mineral Resources, the relevant
89 experience must be in the estimation, assessment, and evaluation of Mineral Resources.
90 If the ACP is estimating, or supervising the estimation of Mineral Reserves, the relevant
91 experience must be in the estimation, assessment, evaluation, and economic extraction
92 of Mineral Reserves (*modified from Clause 12, PMRC 2020*).

93
94 3.1.1 **ACP-Geologist** means an Accredited Competent Person-Geologist.

95
96 3.1.2 **ACP-Metallurgical Engineer** means an Accredited Competent Person-
97 Metallurgical Engineer.

98
99 3.1.3 **ACP-Mining Engineer** means an Accredited Competent Person-Mining
100 Engineer.

101
102 3.2 **Beneficial Owner/Beneficial Ownership** means any person considered as a “beneficial
103 owner” under Rule 3.1.2 of the 2015 Implementing Rules and Regulations of the Securities
104 Regulation Code, or as may be amended.

105
106 3.3 **BOI** means Board of Investments of the Department of Trade and Industry.

107
108 3.4 **CADT** means Certificate of Ancestral Domain Title as defined in the Indigenous Peoples’
109 Rights Act of 1997 (Republic Act No. 8371) and its implementing rules and regulations,
110 as may be amended.

111
112 3.5 **CAPEX** means Capital Expenditures.

113
114 3.6 **CDP** means Community Development Program as discussed by Section 136-A of the
115 Department of Environment and Natural Resources (DENR) Department Administrative
116 Order (DAO) No. 2010-13, as may be amended.

117
118 3.7 **COC** means Coal Operating Contract which refers to a specific agreement between the
119 Philippine government (through the Department of Energy) and a contractor for the
120 exploration, development, utilization, and extraction of coal resources within a specific
121 contract area as discussed under Section 9 of Presidential Decree No. 972 of 1976 and its
122 implementing rules and regulations, as amended.

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- 3.8 **Cut-off Grade** is the lowest grade, or quality, of mineralized material that qualifies as economically mineable and available in a given Mineral Deposit. It may be defined on the basis of economic evaluation, or on physical or chemical attributes that define an acceptable product (*Appendix 1, PMRC 2020*). It may also refer to the lower limit of grade values that delineate the mineralization or Mineral Resource.
- 3.9 **Data Cut-off Date** refers to the cut-off date of the company/Issuer’s technical data included in Public Reports such as Technical Reports.
- 3.10 **Data Validation** is a process of establishing the integrity of verified data for use in the assessment. It is essential that previous data intended to be used in the Mineral Resources and/or Mineral Reserves estimation are validated through a field check sampling program of a scale that would demonstrate that the data could be reliably used.
- 3.11 **Data Verification** is a process of confirming that the data used were generated with “best practice procedures”, accurately transcribed from the reference, and are suitable for use. It is essential that original data are checked and that their integrity and credibility are demonstrated.
- 3.12 **DENR** means Department of Environment and Natural Resources.
- 3.13 **DOE** means Department of Energy.
- 3.14 **ECC** means Environmental Compliance Certificate as defined by DENR DAO No. 2010-021, as may be amended.
- 3.15 **EMS** means Environmental Management System as defined by DENR DAO No. 2003-14, as may be amended.
- 3.16 **EP** means Exploration Permit as defined by the Philippine Mining Act of 1995 (Republic Act No. 7942) and its implementing rules and regulations, as may be amended.
- 3.17 **EPC** means Engineering, Procurement, Construction.
- 3.18 **EPCM** means Engineering, Procurement, Construction Management.
- 3.19 **EPEP** means Environmental Protection and Enhancement Program as defined by DENR DAO No. 2010-021, as may be amended.
- 3.20 **ESG** means Environmental, Social, and Governance.
- 3.21 **Exploration Results** include data and information generated by Mineral Exploration programs that may be of use to investors, but which do not form part of a declaration of Mineral Resources or Mineral Reserves (*Clause 21, PMRC 2020*).
- 3.22 **Exploration Target** is a statement or estimate of the exploration potential of a Mineral Deposit in a defined geological setting where the statement or estimate, quoted as a range of tonnage (or volume) and a range of grade (or quality) relates to mineralization

- 172 for which there has been insufficient exploration to estimate a Mineral Resource (*Clause*
173 *20, PMRC 2020*).
- 174
- 175 3.23 **FMR/DP** means Final Mine Rehabilitation and/or Decommissioning Plan as defined by
176 DENR DAO No. 96-40, as amended.
- 177
- 178 3.24 **FTAA** means Financial or Technical Assistance Agreement as defined by the Philippine
179 Mining Act of 1995 and its implementing rules and regulations, as may be amended.
- 180
- 181 3.25 **Historical Data** refers to any set of exploration results, mineral resources, mineral
182 reserves and/or any technical data generated on the Mineral Property prior to
183 acquisition by the company/Issuer, which is part of the subject covered by the current
184 Public Report.
- 185
- 186 3.26 **Historical Estimate** refers to an estimate of mineral resources and/or mineral reserves
187 declared but not compliant with PMRC 2020 or reported prior to the acquisition of the
188 mining rights of the Mineral Property by the company/Issuer.
- 189
- 190 3.27 **'If not, why not'** means that each heading and sub-heading listed in TR-FORMs 1, 2, and
191 3 (ANNEX I) and each item in the relevant section of Table 1 of the PMRC 2020 must be
192 discussed and if it is not discussed, then the ACP must explain why they were not
193 discussed (*modified from Clause 7, PMRC 2020*).
- 194
- 195 3.28 **I&AP** means Interested and Affected Party.
- 196
- 197 3.29 **IP/ICC** means Indigenous People or Indigenous Cultural Community as defined by the
198 Indigenous Peoples' Rights Act of 1997 (Republic Act No. 8371) and its implementing
199 rules and regulations, as may be amended.
- 200
- 201 3.30 **IRR** means Implementing Rules and Regulations of PSE for the PMRC 2020.
- 202
- 203 3.31 **ISO** means International Organization for Standardization.
- 204
- 205 3.32 **Issuer** is a company listed and/or applying for listing with PSE.
- 206
- 207 3.33 **LoMP** means Life-of-Mine Plan which refers to a mine design with its periodic mine
208 production plans and corresponding financial/economic study of an existing operation
209 in which appropriate assessments have been made of all Modifying Factors in sufficient
210 detail (to a minimum of pre-feasibility level) to demonstrate that continued extraction is
211 reasonably justified. Refer to Table 2 of PMRC 2020 for guidance (*modified from*
212 *Appendix 1, PMRC 2020*).
- 213
- 214 3.34 **Metal Equivalent**s are sometimes used by companies to report polymetallic contents of
215 Mineral Deposits and converted in terms of a single equivalent grade of a major metal in
216 the Mineral Deposit showing details of all material factors contributing to the net value
217 derived from each constituent metal (*modified from Clause 46, PMRC 2020*).
- 218
- 219 3.35 **MGB** means Mines and Geosciences Bureau of the DENR.
- 220

- 221 3.36 **Mineral** is any substance, extracted for value, occurring naturally in or on the Earth, in or
222 under water or in tailings, residues or stockpiles, having been formed by or subjected to
223 a geological process but excludes water, oil, and gas (*Clause 4, PMRC 2020*).
224
- 225 3.37 **Mineral Deposit** is a distinct place in the Earth’s crust where geological processes have
226 concentrated one or more Minerals at greater abundance than in the average crust.
227
- 228 3.38 **Mineral Exploration** means searching or prospecting for Mineral Resources by
229 geological, geochemical and/or geophysical surveys, remote sensing, test pitting,
230 trenching, drilling, and other related means for the purpose of determining their
231 existence, quantity and quality, and the feasibility of mining them. The usual stages of
232 Mineral Exploration are:
233
- 234 3.38.1 **Phase I. Prospecting and Preliminary Exploration** is an initial exploration
235 activity in a Mineral Property. The main activities consist of rapid
236 reconnaissance geological mapping and widely-spaced geochemical sampling
237 of stream sediments, soils, and rocks, and remote sensing, at times. The
238 objective is to locate surface and near-surface indications of mineralization and
239 to obtain initial data on the general geology of the exploration area,
240 characteristics of the Minerals of interest and range of concentration of the
241 contained elements. The desired target or outcome of this activity is
242 **Exploration Results**.
243
- 244 3.38.2 **Phase II. Exploration** is a follow-up work done after Prospecting and
245 Preliminary Exploration (Phase I) in a Mineral Property. The main activities
246 consist of semi-detailed geological mapping and geochemical sampling at
247 widely-spaced observation and sampling points, including geophysical
248 survey(s) in selected places, as well as limited trenching/pitting and/or random
249 scout to widely-spaced drilling. The objective is to verify the existence of
250 significant mineralization. The desired target or outcome of this activity is still
251 included under **Exploration Results** and possibly **Exploration Targets**.
252
- 253 3.38.3 **Phase III. Semi-detailed Exploration** is conducted to delineate the length,
254 width, depth, and shape of the mineralization in delineated Mineral Deposit(s)
255 within a Mineral Property. The main activities consist of semi-detailed to
256 detailed geological mapping and geochemical sampling at closely-spaced
257 observation and sampling points, soil grid sampling, and closely-spaced drilling
258 in the delineated mineralized areas. Other specialized exploration techniques
259 are also applied such as geophysics. The objective is to be able to estimate the
260 tonnage (or quantity) and grade (or quality) with a level of geological
261 confidence lower than the Indicated Mineral Resource. The desired target is
262 **Inferred Mineral Resource**.
263
- 264 3.38.4 **Phase IV. Detailed Exploration** is conducted to delineate the tonnage (or
265 quantity) and grade (or quality) of the Mineral Deposit(s) with a level of
266 geological confidence higher than Inferred Mineral Resource. The main
267 activities consist of detailed geological mapping and geochemical sampling at
268 closer-spaced observation points, mainly by drilling, adequate to establish

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moderate to high confidence level of geological and grade (or quality) continuity. The desired target is **Indicated to Measured Mineral Resource**.

3.39 **Mineral Property** is an area covered by a tenurial instrument granted to a contractor/permittee by the Philippine government or entered into between the Philippine government, through the DENR, DOE or Office of the President, the latter in the case of an FTAA, and the contractor with distinct location, area, and technical description for the purpose of Mineral Exploration and/or Mining Operations.

3.40 **Mineral Reserve** is the economically mineable part of a Measured and/or Indicated Mineral Resource. It includes diluting materials and allowances for losses, which may occur when the material is mined or extracted and is defined by studies at pre-feasibility or feasibility level as appropriate that include application of Modifying Factors. Such studies demonstrate that, at the time of reporting, extraction could reasonably be justified. The reference point at which Mineral Reserves are defined, usually the point where the ore is delivered to the processing plant, must be stated. It is important that, in all situations where the reference point is different, such as a saleable product, a clarifying statement is included to ensure that the reader is fully informed as to what is being reported (*Clause 32, PMRC 2020*).

3.40.1 **Probable Mineral Reserve** is the economically mineable part of an Indicated, and in some circumstances, a Measured Mineral Resource. The confidence in the Modifying Factors applying to a Probable Mineral Reserve is lower than that applying to a Proved Mineral Reserve (*Clause 33, PMRC 2020*).

3.40.2 **Proved Mineral Reserve** is the economically mineable part of a Measured Mineral Resource. A Proved Mineral Reserve implies a high degree of confidence in the Modifying Factors (*Clause 34, PMRC 2020*).

3.41 **Mineral Resource** is a concentration or occurrence of solid material of economic interest in or on the Earth's crust in such form, grade (or quality), and quantity that there are reasonable prospects for eventual economic extraction (RPEEE). The location, quantity, grade (or quality), continuity, and other geological characteristics of a Mineral Resource are known, estimated or interpreted from specific geological evidence, including sampling. Mineral Resources are subdivided, in order of increasing geological confidence, into Inferred, Indicated, and Measured categories (*modified from Clause 23, PMRC 2020*).

3.41.1 **Inferred Mineral Resource** is that part of a Mineral Resource for which quantity and grade (or quality) are estimated on the basis of limited geological evidence and sampling. Geological evidence is sufficient to imply but not verify geological and grade (or quality) continuity. It is based on exploration, sampling, and testing information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings, and drill holes. An Inferred Mineral Resource has a lower level of confidence than that applying to an Indicated Mineral Resource and must not be converted to a Mineral Reserve. It is reasonably expected that the majority of Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration (*Clause 24, PMRC 2020 Edition*).

- 318 3.41.2 **Indicated Mineral Resource** is that part of a Mineral Resource for which
319 quantity, grade (or quality), densities, shape, and physical characteristics are
320 estimated with sufficient confidence to allow the application of Modifying
321 Factors in sufficient detail to support mine planning and evaluation of the
322 economic viability of the Mineral Deposit. Geological evidence is derived from
323 adequately detailed and reliable exploration, sampling and testing information
324 gathered through appropriate techniques from locations such as outcrops,
325 trenches, pits, workings, and drill holes, and is sufficient to assume geological
326 and grade (or quality) continuity between points of observation. An Indicated
327 Mineral Resource has a lower level of confidence than that applying to a
328 Measured Mineral Resource and may only be converted to a Probable Mineral
329 Reserve (*Clause 25, PMRC 2020*).
- 330
- 331 3.41.3 **Measured Mineral Resource** is that part of a Mineral Resource for which
332 quantity, grade (or quality), densities, shape, and physical characteristics are
333 estimated with confidence sufficient to allow the application of Modifying
334 Factors to support detailed mine planning and evaluation of the economic
335 viability of the Mineral Deposit. Geological evidence is derived from detailed
336 and reliable exploration, sampling and testing information gathered through
337 appropriate techniques from locations such as outcrops, trenches, pits,
338 workings and drill holes and is sufficient to confirm geological and grade or
339 (quality) continuity between points of observation. A Measured Mineral
340 Resource has a higher level of confidence than that applying to an Indicated
341 Mineral Resource. It may be converted to a Proved Mineral Reserve or under
342 certain circumstances to a Probable Mineral Reserve (*Clause 26, PMRC 2020*).
- 343
- 344 3.42 **Mine Production Plan (MPP)** is a mine design with a corresponding financial/economic
345 study of a Mining Project that is not in production at the time of reporting.
- 346
- 347 3.43 **Mining Operations** mean activities conducted on a mine site related to the extraction of
348 minerals and include the removal of overburden, excavation with or without processing
349 of minerals, stockpiling and removal of minerals from a site for revenue generation.
- 350
- 351 3.44 **Mining Project** is the whole Mineral Property or portion(s) of it where Mineral Reserves
352 exist or are being assessed.
- 353
- 354 3.45 **Modifying Factors** are considerations used to convert Mineral Resources to Mineral
355 Reserves. These include, but are not restricted to, mining, processing, metallurgical,
356 infrastructure, economic, marketing, legal, environmental, social, and governmental
357 factors (*Clause 15, PMRC 2020*).
- 358
- 359 3.46 **MPSA** means Mineral Production Sharing Agreement as defined by the Philippine Mining
360 Act of 1995 and its implementing rules and regulations, as may be amended.
- 361
- 362 3.47 **NPV** means Net Present Value which is a financial metric.
- 363
- 364 3.48 **OPEX** means Operating Expenses.
- 365

- 366 3.49 **Payback Period** is the financial metric that shows the duration between the date of the
367 initial investment (i.e., project cost) and the date when this investment has been
368 recovered by cash inflows from the operations of the Mining Project.
369
- 370 3.50 **PERT CPM** means Project Evaluation and Review Technique and Critical Path Method.
371
- 372 3.51 **PEZA** means Philippine Economic Zone Authority.
373
- 374 3.52 **Philippine Mineral Reporting Code Committee (PMRCC)** is a committee that initiated and
375 drafted the PMRC 2020 Edition. It was established on November 22, 2018 by the
376 Professional Representative Organizations of the minerals industry which are the PSEM,
377 the GSP, and the SMEP together with minerals industry-related organizations and bodies
378 such as the PSE, the Chamber of Mines of the Philippines (COMP), the Philippine Mining
379 and Exploration Association (PMEA), the Philippines-Australia Business Council (PABC),
380 and the Philippine Chamber of Coal Mines (PHILCOAL) (*Clause 1, PMRC 2020*).
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- 382 3.53 **PIC** means Professional Identification Card issued by the Professional Regulation
383 Commission (PRC).
384
- 385 3.54 **PMRC's Governing Principles** are the three (3) principles governing the operation and
386 application of the PMRC. They are as follows -
387
- 388 3.54.1 **Transparency** requires that the reader of a Public Report is provided with
389 sufficient information, the presentation of which is clear and unambiguous, so
390 as to understand the report and not to be misled by this information or by
391 omission of material information that is known to the ACP.
392
- 393 3.54.2 **Materiality** requires that a Public Report contains all the relevant information
394 which investors and their professional advisers would reasonably require, and
395 reasonably expect to find in the report, for the purpose of making a reasoned
396 and balanced judgment regarding the Exploration Results, Exploration Targets,
397 Mineral Resources, Mineral Reserves, and/or metallurgical assessments and
398 design being reported. Where relevant information is not supplied, an
399 explanation must be provided to justify its exclusion.
400
- 401 3.54.3 **Competence** requires that the Public Report be based on work that is the
402 responsibility of suitably qualified and experienced persons who are subject to
403 an enforceable professional code of ethics - the ACP.
404
- 405 3.55 **Professional Regulation Commission (PRC)** is the commission attached to the Philippine
406 Department of Labor and Employment (DOLE) which regulates and supervises the
407 practice of all professionals except lawyers.
408
- 409 3.56 **Professional Representative Organizations** refer to national professional organizations
410 in the mining, geosciences, and metallurgical fields, consisting of the PSEM, the GSP, and
411 the SMEP.
412
- 413 3.57 **Public Reports** are reports prepared for the purpose of informing investors or potential
414 investors and their advisers, on Exploration Results, Exploration Targets, Mineral

415 Resources, Mineral Reserves and/or metallurgical assessments and design. These may
416 include but are not limited to annual and quarterly company reports, media releases,
417 information memoranda, technical papers, website postings, public presentations, and
418 corporate disclosures required to be submitted to both the SEC and PSE, including
419 disclosures of any material fact or event that occurs which would reasonably be expected
420 to affect investors' or potential investors' decision in relation to the company's securities
421 *(modified from Clause 6, PMRC 2020)*.
422

423 3.58 **QA/QC** means Quality Assurance/Quality Control.
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425 3.59 **Report Date** refers to the date when the ACP(s) signs off Public Reports such as Technical
426 Reports
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428 3.60 **RC** means Reverse Circulation type of drilling.
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430 3.61 **ROI** means Return on Investment which is a financial metric.
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432 3.62 **RPEEE** means Reasonable Prospects for Eventual Economic Extraction which is a major
433 criterion for Mineral Resources *(Clause 23, PMRC 2020)*.
434

435 3.63 **SEC** means the Securities and Exchange Commission.
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437 3.64 **SDMP** means Social Development Management Program as defined by Section 136-A of
438 the DENR DAO No. 2010-13, as may be amended.
439

440 3.65 **Technical Report** is a comprehensive Public Report following the reporting outlines
441 found in TR-FORMs 1, 2, and 3 (ANNEX I), and are prepared by ACP(s) to inform investors
442 or potential investors and their advisers on Exploration Results, Exploration Targets,
443 Mineral Resources, Mineral Reserves, and/or metallurgical assessments and design. This
444 must also be compliant with the PMRC 2020 and this IRR on an 'if not, why not' basis.
445

446 3.66 **Technical Studies** are technical and economic studies of the viability of Mineral
447 Resources and/or Mineral Reserves. In order of increasing levels of confidence and
448 comprehensiveness, these are the Scoping Study, Pre-Feasibility Study, and Feasibility
449 Study, which are further defined below.
450

451 3.66.1 **Scoping Study** is an order-of-magnitude technical and economic study of the
452 potential viability of the Mineral Resources which includes appropriate
453 assessments of realistically assumed Modifying Factors together with any other
454 relevant operational factors that are necessary to demonstrate at the time of
455 reporting that progress to a Pre-Feasibility Study can be reasonably justified
456 *(Clause 43, PMRC 2020)*.
457

458 3.66.2 **Pre-Feasibility Study** (or **PFS**) is a comprehensive study of a range of options
459 for the technical and economic viability of a mineral project that has advanced
460 to a stage where a preferred mining method, underground or surface, has been
461 established and an effective method of mineral processing has been
462 determined. It includes a financial analysis based on reasonable assumptions
463 on the Modifying Factors and the evaluation of any other relevant factors which

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are sufficient for an ACP, acting reasonably, to determine if all or part of the Mineral Resource may be converted to a Mineral Reserve at the time of reporting. A Pre-Feasibility Study has a lower confidence level than a Feasibility Study (*Clause 44, PMRC 2020*).

3.66.3 **Feasibility Study** (or **FS**) is a comprehensive technical and economic study of the selected development option for a mineral project that includes appropriately detailed assessment of applicable Modifying Factors together with any other relevant operational factors and detailed financial analysis that are necessary to demonstrate at the time of reporting that extraction is reasonably justified (economically mineable). The results of the study may reasonably serve as the basis for a final decision by a proponent or financial institution to proceed with, or finance, the development of the project. The confidence level of the study will be higher than that of a Pre-Feasibility Study (*Clause 45, PMRC 2020*).

3.67 **TSF** means Tailings Storage Facility.

4. PUBLIC REPORTS

4.1 General Requirements

All Public Reports, including Technical Reports, are the responsibility of the Issuer acting through its Board of Directors. Public Reports containing information on Exploration Results, Exploration Targets, Mineral Resources, Mineral Reserves and/or metallurgical assessments and design made by the Issuer on the Mineral Property and material to the Issuer must be based upon the information prepared by or under the supervision of ACP(s) on an ‘if not, why not’ basis. The following information must be submitted to the Exchange whenever a Public Report is made:

- 4.1.1 The name, address, and occupation/profession of the ACP(s)
- 4.1.2 Proof of validity of the PRC license of the ACP(s), by providing a scanned copy of the ACP’s current PRC PIC
- 4.1.3 Proof of validity of the ACP(s)’ accreditation, by providing a scanned copy of the ACP’s identification card or accreditation certificate issued by the relevant Professional Representative Organization
- 4.1.4 The relationship of the ACP(s) to the Issuer (e.g., consultant, whether independent or not independent, employee or holder of a corporate position) and number of shares, options and/or warrants that the ACP(s) beneficially own, if any, in the Issuer’s shares as certified by the Issuer’s Corporate Secretary
- 4.1.5 The ACP must also disclose other relationships or arrangements of the ACP, such as but not limited to:
 - a. being a holder of tenement rights which is the subject of the Public Report;

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- b. landlord-lessee relationship of land and/or infrastructure which has a bearing on the Public Report;
- c. any other employment-related relationship which may have a bearing on the integrity of the Public Report.

4.1.6 When applicable, the title, Data Cut-off Date, and Report Date of the Public Report, such as a Technical Report

4.1.7 Prior Written Consent of the ACP(s)

- a. The ACP(s) must provide their prior written consent to the public filing of Public Reports, including Technical Reports (ANNEX II).
- b. If the Issuer intends to disclose any material information on a Mineral Property that references a Technical Report which the Issuer had earlier commissioned, the Issuer is still required to obtain prior written consent from the ACP(s) before the disclosure.
- c. If there is more than one (1) ACP involved in a Public Report, the ACPs must state which part of the Public Report was prepared or supervised by them.
- d. The ACP(s) should state that they have carefully verified the Public Report being filed; that it fairly and accurately reflects in the form and context in which it appears, the information embodied in the Public Report; and that at the time of the report, to the best of the ACP(s)' knowledge, all technical information required to ensure that the Public Report is not misleading, false, inaccurate, or incorrect have been included.
- e. When filing a Public Report with the Exchange, the Issuer must file one (1) original notarized Consent Statement (ANNEX II) completed, dated, and signed by each of the ACPs responsible for preparing or supervising the preparation of each portion of the Public Report. Failure to file the Consent Statement with the Public Report submitted to the Exchange shall be equivalent to non-submission of the said report.

4.2 Data Verification and Data Validation

Public Reports should include Data Verification and Data Validation. To ensure this, the following information must be included in the Public Report:

- 4.2.1 A statement by the ACP(s) that they have conducted Data Verification and Data Validation of the data disclosed (see ANNEX II) which includes any of, but not limited to, the following:
 - a. sampling data
 - b. analytical data

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- c. quality assurance and quality control data
- d. opinions supporting the technical information in the Public Report
- 4.2.2 Description of how the Data Verification and Data Validation were undertaken and any limitations on the process should also be included.
- 4.2.3 In lieu of Section 4.2.2, if Data Verification and Data Validation were not undertaken, an explanation as to why such were not executed.
- 4.3 Public Reports on Exploration Results and Exploration Targets
 - 4.3.1 Public Reports on Exploration Results and/or Exploration Targets should be reported by an ACP-Geologist.
 - 4.3.2 Public Reports on Exploration Results and/or Exploration Targets must be in accordance with Clauses 20 to 22 of the PMRC 2020 and consider the list of the criteria in Table 1 of the PMRC 2020.
- 4.4 Public Reports on Mineral Resources and Mineral Reserves
 - 4.4.1 Public Reports on Mineral Resources should be reported by an ACP-Geologist.
 - 4.4.2 Public Reports on Mineral Reserves should be reported by an ACP-Mining Engineer.
 - 4.4.3 Public Reports on metallurgical assessments and design should be reported by an ACP-Metallurgical Engineer.
 - 4.4.4 The ACP(s) should report Mineral Resources and Mineral Reserves separately.
 - 4.4.5 The Inferred Mineral Resources should not be combined with Indicated and Measured Mineral Resources in the reporting of total Mineral Resource since it cannot be converted to Mineral Reserves by the ACP-Mining Engineer(s). Inferred Mineral Resources may be included in the list of Mineral Resources but should be labeled as such.
 - 4.4.6 Each category of the Mineral Resources and Mineral Reserves disclosed must be reported with the corresponding tonnage (or volume) and grade(s) (or quality(ies)).
 - 4.4.7 The Cut-off Grades (or qualities) used for estimating Mineral Resources and Mineral Reserves and their bases must be disclosed.
 - 4.4.8 A Pre-Feasibility Study, Final Feasibility Study or Life-of-Mine Plan (LoMP) is required in declaring Mineral Reserves.

610 4.4.9 Public Reports on Mineral Resources and/or Mineral Reserves must be in
611 accordance with Clauses 23 to 41 of the PMRC 2020 and consider the list of
612 criteria in Table 1 of the PMRC 2020.
613

614 4.5 General Disclosures under the Exchange’s Consolidated Listing and Disclosure Rules, as
615 amended
616

617 4.5.1 All Issuers are required to submit an annual report (*SEC Form 17-A*), three (3)
618 quarterly reports (*SEC Form 17-Q*), and any other periodical or current reports
619 within the deadlines set under Section 17.2, Article VII of the Exchange’s
620 Consolidated Listing and Disclosure Rules, as amended.
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622 4.5.2 A summary of the Exploration Results and Exploration Target(s), if any, during
623 the fiscal year should be reported in the annual report by the ACP-Geologist. If a
624 Mineral Property has Mineral Resources and/or Mineral Reserves, the Issuer
625 must also include discussions on such Mineral Resources and/or Mineral
626 Reserves in its annual report by the ACP-Geologist and/or ACP-Mining Engineer,
627 respectively. These discussions must specifically cover all of the following
628 information (*see Clause 18, PMRC 2020*):
629

630 4.5.2.1 A summary of the results of the Issuer’s annual review of its Mineral
631 Resources and/or Mineral Reserves. An annual review is a
632 comprehensive review by ACP(s) of an Issuer’s declared Mineral
633 Resources and Mineral Reserves estimates for the purpose of
634 identifying any changes related to these estimates during the
635 previous twelve (12) months and determining whether such changes
636 have a material effect on the declared Mineral Resources and/or
637 Mineral Reserves. The annual review should be conducted by the
638 ACP(s).
639

640 4.5.2.2 The Issuer’s Mineral Resources and/or Mineral Reserves as of the end
641 of the Issuer’s fiscal year, classified/categorized on the following basis
642 in tabular form:
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- 644 a. By commodity type, including the tonnage (quantity) and
645 grade(s) (quality(ies))
646
- 647 b. By Mineral Resource category and/or Mineral Reserve category,
648 and
649
- 650 c. By geographical area based on the materiality of the Mineral
651 Resources and Mineral Reserves to the Issuer
652

653 4.5.2.3 A comparison of the Issuer’s Mineral Resources and Mineral Reserves
654 for the current year against that from the previous year on the
655 following basis:
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- 657 a. By commodity type, including the tonnage (quantity) and
658 grade(s) (quality(ies))

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- b. By geographical area based on the materiality of the Mineral Resource and/or Mineral Reserves to the Issuer

4.5.2.4 A summary of the governance arrangement and internal controls that the Issuer has put into place with respect to its estimation process to determine the Mineral Resources and/or Mineral Reserves estimates

4.5.3 For quarterly reports, a summary of the Exploration Results generated during the applicable quarter as reported by the ACP-Geologist should be included.

4.6 Disclosures on Sustainability Considerations

Public Reports are required to discuss sustainability considerations such as environmental, social, and health and safety impacts that are expected during Mineral Exploration, development, Mining Operations, and after closure, and the mitigation and remediation plans to address such impacts (*Clause 61 of PMRC 2020*). To implement the foregoing provision, for the first three (3) years from the date of effectivity of this IRR, without prejudice to extensions as may be warranted, disclosures on Environmental, Social, and Governance (ESG) considerations may be voluntarily included in Technical Reports as outlined in Section 5 of TR-FORMs 1 and 2, and Section 4 of TR-FORM 3 (ANNEX I) adopting established sustainability reporting frameworks and standards. After the initial three-year period (or such longer period that the Exchange may deem appropriate), inclusion of disclosure on ESG considerations in Public Reports shall be mandatory.

4.7 Prohibited Disclosures

4.7.1 Tonnage (or quantity), and grade (or quality) of a Mineral or contained metal of a Mineral Deposit not classified according to the Mineral Resource and Mineral Reserve categories stipulated by the PMRC 2020

4.7.2 Historical Estimate(s) incorporated in current Mineral Resources or Mineral Reserves estimates unless the following criteria are met:

- a. The source documents, i.e., technical report(s), of the Historical Estimate are available and the following are known - author(s), title, and date of the said reports; and the Issuer/company who commissioned the said report(s), and
- b. Complete database is available for adequate Data Verification and Data Validation, including additional exploration/development works such as drilling if considered necessary, in order for the ACP(s) to consider that the Historical Estimate(s) used in the current Mineral Resources and/or Mineral Reserves estimates comply with the PMRC 2020.

If the foregoing criteria (a) and (b) are not met, the Historical Estimate(s) may be used only as a reference and cannot form part of the current Mineral Resources and/or Mineral Reserves estimates.

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- 4.7.3 Public Reports on Exploration Target(s) not in accordance with Clause 20 of the PMRC 2020
 - 4.7.4 Public Reports on in situ or in ground valuation, i.e., economic value of Mineral Resources and/or Mineral Reserves, without a Pre-Feasibility Study, Feasibility Study or LoMP (*modified from Clause 47 of the PMRC 2020*)
 - 4.7.5 Public Reports on Mineral Resources and Mineral Reserves, and economic value at a Cut-off Grade of zero
 - 4.7.6 Inferred Mineral Resources should not be considered in the assessment of economic viability, rendering its presence inside the Mine Production Plan (MPP) or LoMP as purely incidental and without influence on the declaration of Mineral Reserves (*Clause 40, PMRC 2020*). A MPP or a LoMP must be economically viable without inclusion of Inferred Mineral Resources in the estimation of Mineral Reserves.
 - 4.7.7 Disclosures on Metal Equivalents not in accordance with Clause 46 of the PMRC 2020.
- 4.8 Public Reports through Media Release, Information Memorandum, Website Posting, and Public Presentation

Any information relating to Exploration Results, Exploration Targets, Mineral Resources and/or Metallurgical Assessments and Design which will be disclosed to the public through media release, information memorandum, website posting, public presentation, and any other means must: (a) comply with the requirements under the PMRC 2020 and its IRR, including consent from ACP(s); and (b) be disclosed to the Exchange in accordance with the Listing Rules (for covered listing applicants) and Disclosure Rules (for covered listed companies).

5. TECHNICAL REPORT

5.1 Data Cut-off Date

Subject to Section 5.2.a.ii, Technical Reports should be submitted to the Exchange within eighteen (18) months from the Data Cut-off Date. Historical Estimates incorporated in current Mineral Resources and/or Mineral Reserves estimates that satisfy Section 4.7.2(a) and (b) will be considered within the Data Cut-off Date.

5.2 Events requiring a Technical Report:

- a. Any capital-raising activity conducted through the Exchange including, but not limited to, applications for initial listing with the Exchange, follow-on offerings, stock rights offerings, and private placements:

- 756 i. The listing date of the securities for which the Technical Report was used
757 should not be more than eighteen (18) months from the Data Cut-off
758 Date of the Technical Report;
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760 ii. If the company fails to list within the prescribed eighteen (18) month
761 period above, a new Technical Report must be submitted to the PSE.
762 However, should there be no or only minor changes to the Technical
763 Report after the eighteen (18) month period, the company is required to
764 submit either a notarized certification from the ACP stating that there
765 have been no changes of material nature to the Technical Report or a
766 supplemental Technical Report, reflecting the changes.
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768 b. When reporting Mineral Resources and/or Mineral Reserves for the first time; and
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770 c. When there is one hundred percent (100%) increase or fifty percent (50%) decrease
771 in the Mineral Resources and/or Mineral Reserves within the Mineral Property from
772 the most recent Public Report prepared by the ACP.
773

774 5.3 General Requirements for the Technical Report

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776 5.3.1 The Technical Report should follow the report outline format as detailed in TR-
777 FORMs 1, 2 or 3 (ANNEX I) and consider the list of criteria in Table 1 of the PMRC
778 2020 (ANNEX III).
779
780 5.3.2 The Technical Report must be prepared in accordance with the PMRC 2020 and
781 this IRR.
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783 5.3.3 The Technical Report must be prepared or its preparation supervised by ACP(s).
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785 5.3.4 The ACP(s) shall assume full responsibility for the Technical Report they have
786 prepared or were prepared under their supervision.
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788 5.4 Author of the Technical Report

- 789
790 5.4.1 Basic qualifications of the ACP(s)
791
792 a. Possesses a valid PRC PIC as a registered professional geologist, and/or
793 mining engineer, and/or metallurgical engineer
794
795 b. Member of good standing of their respective Professional Representative
796 Organizations (GSP, PSEM or SMEP)
797
798 c. Has a minimum of five (5) years relevant experience in the style of
799 mineralization or type of Mineral Deposit under consideration and to the
800 activity which that person is undertaking (*Clause 12, PMRC 2020*)
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802 d. Possesses a valid ACP identification card or accreditation certificate issued
803 by the proper Professional Representative Organization (GSP, PSEM or
804 SMEP)
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- 806 5.4.2 If a specialist professional who is not an ACP is engaged to cover certain facets
807 of the preparation of the Technical Report, the supervising ACP should take
808 responsibility for the work of the said professional.
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- 810 5.4.3 The Technical Report must be signed by the respective ACP(s) through the
811 ACP's Consent Form (ANNEX II). The Data Cut-off Date and Report Date of the
812 Technical Report must be stated.
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- 814 5.4.4 The Technical Report must be directly prepared by the ACP(s) or prepared
815 under their direct supervision.
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- 817 a. Report on Exploration Results, Exploration Targets and/or Mineral
818 Resources must be prepared by an ACP-Geologist.
819
- 820 b. Report on the economic assessment and Mineral Reserves must be
821 prepared by an ACP-Mining Engineer.
822
- 823 c. Report on metallurgical assessments and design must be prepared by an
824 ACP-Metallurgical Engineer.
825
- 826 5.5 Preparation of the Technical Report
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- 828 5.5.1 The Technical Report must be prepared on the basis of all available technical
829 data as of the Data Cut-off Date relevant and material to the Public Report that
830 it supports.
831
- 832 5.5.2 The Technical Report should include Data Verification and Data Validation (see
833 Section 4.2).
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- 835 5.5.3 The ACP(s), as author(s) of the Technical Report, must complete an on-site
836 inspection of the Mineral Property that is the subject of the Technical Report
837 prior to the filing of the Technical Report by the Issuer.
838
- 839 5.5.4 The company/Issuer must diligently keep records of verifiable data such as
840 assay and other analytical certificates, drill core splits, sample rejects, drill core
841 logs, and other information referenced in the Technical Report or used as a
842 basis for the Technical Report.
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- 844 5.6 Technical Report Format
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- 846 5.6.1 The Technical Report's format is dependent on the purpose. It can include the
847 Exploration Results, Exploration Targets, Mineral Resources, Mineral Reserves,
848 and/or metallurgical assessments and design on a Mineral Property. TR-FORM
849 1, 2, and 3 (ANNEX I) set out specific report outlines and guidelines for the
850 preparation and contents of the Technical Reports.
851
- 852 5.6.2 The ACP(s) preparing the Technical Report should follow the numbered
853 headings and sub-headings indicated in **bold** typeface listed in TR-FORM 1, 2,
854 and 3 (ANNEX I). Guidance notes indicated in *italic* typeface and numbered in

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Roman numerals in lower case ('Romanette') are placed below each heading and subheadings. Additional sub-headings may be created, if deemed necessary. If unique or infrequently used technical terms are required, clear and concise explanations must be included. Headings and subheadings that are not applicable cannot be omitted (see Section 5.6.4).

5.6.3 Section 9 (Declaration of Exploration Targets) in TR-FORM 1 is an optional section. If the ACP(s) will be reporting Exploration Results only without Mineral Resources as outlined in TR-FORM 1, "Not Applicable" can be indicated under Section 10 (Estimation of Mineral Resources) of TR-FORM 1. If Mineral Resources and/or Exploration Target(s) will be reported, the ACP(s) must provide a discussion under Section 8 (Exploration Results) of TR-FORM 1.

5.6.4 Based on the 'if not, why not' requirement, all headings and subheadings listed in TR-FORMs 1, 2 and 3 (ANNEX I) must be discussed. If any of the headings and subheadings are not discussed, the ACP(s) must explain why they have not been discussed.

5.6.5 Appendices for the Technical Reports shall be as follows –

5.6.5.1 Appendix 1 (Outline of Comments on PMRC 2020 Table 1 Assessment and Reporting Criteria) is mandatory for all Technical Reports following the TR-FORMs 1, 2, and 3 outlines (ANNEX I). A template for Appendix 1 is provided under ANNEX III. This must be filled-out in compliance with the "if not, why not" reporting requirement. The criteria indicated under the "PMRC 2020 Reporting Criterion" column is based on the criteria under Table 1 (Checklist of Assessment and Reporting Criteria) of the PMRC 2020. The section headings/subheadings and/or page numbers where the specific criterion is discussed in the Technical Report should be indicated under the "Commentary" column. The last four (4) columns indicate the criteria to be included in the Appendix 1 of the Technical Report depending on the applicable template (i.e., TR-FORMs 1, 2 or 3). These four (4) columns should not be replicated in the actual Appendix 1 of the Technical Report.

The criteria under Section 10 (Reporting for Coal Resources and Coal Reserves) of Appendix 1 is mandatory only for a coal Mineral Property.

5.6.5.2 Appendix 2 (List of Acronyms) is mandatory for all Technical Reports as specified in the TR-FORMs 1, 2, and 3 outlines (ANNEX I). The Appendix should contain all acronyms used in the relevant Technical Report for easy reference.

5.6.5.3 Other appendices besides Appendices 1 and 2 can be appended to the Technical Reports at the discretion of the ACP(s).

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6. PENALTIES

- 6.1 Only Public Reports that comply with the reporting standards under the Code and the guidelines under this IRR shall be accepted by the Exchange for listing and/or disclosure purposes. Failure to include any attachment, document, or material information required under the Code and this IRR to a Public Report filed with the Exchange shall be equivalent to non-submission of the said Report. Any violation of the listing and disclosure requirements applicable to the company/Issuer shall merit the imposition of the applicable penalties under the Exchange’s Consolidated Listing and Disclosure Rules, as amended.
- 6.2 Any violations with respect to the professional code of ethics by ACP(s) involving misconduct and/or negligence over the preparation, review, and reporting of the Technical Reports and other Public Reports shall be investigated and, if warranted, penalized by the respective Professional Representative Organization (GSP, PSEM or SMEP).

7. TRANSITORY PROVISIONS

- 7.1 Upon the approval of this IRR, all subsequent Public Reports must be compliant with the PMRC 2020 and this IRR. Further, all covered entities are required to provide Technical Reports on Exploration Results, Exploration Targets, Mineral Resources, Mineral Reserves and metallurgical assessment and design to the Exchange relevant to their Mineral Property(ies) within two (2) years from the date of the approval of this IRR.
- 7.2 The two-year transitory period under Section 7.1 above, however, does not apply to companies with capital-raising activities through the PSE. For these companies, the Technical Report(s) that are fully compliant with the provisions of this IRR must be immediately submitted to the Exchange upon filing of the relevant listing application.
- 7.3 Applicant companies intending to apply for listing with the Exchange prior to the approval of this IRR are highly encouraged to submit the Technical Report(s) prepared in accordance with PMRC 2020, the draft of this IRR and its TR-FORMs posted in the Exchange’s website.
- 7.4 Disclosures on ESG under Section 4.6 may be voluntarily included in Technical Reports in the first three (3) years from the date of effectivity of this IRR without prejudice to extensions as may be warranted. After the initial three-year period (or such longer period that the Exchange may deem appropriate), inclusion of disclosure on ESG considerations in Public Reports shall be mandatory.

946 **ANNEX I**

947 **GUIDELINES IN THE PREPARATION OF TECHNICAL REPORTS**

948 *These guidelines are intended to provide the form and content of the Technical Reports*
949 *required by The Philippine Stock Exchange, Inc. to comply with the PMRC 2020 Edition*
950 *including Table 1. The headings (X.) and sub-headings (X.X, X.X.X, X.X.X.X, X.X.X.X.X) indicated*
951 *in **BOLD** typeface are mandatory sections and sub-sections in the Technical Reports,*
952 *respectively; while the guidance notes indicated in italic typeface and numbered in Roman*
953 *numerals in lower case ('Romanette') are placed below each heading and subheadings. Some*
954 *topics may not be relevant to the type of Mineral Deposit being considered. Likewise, there*
955 *may also be topics or features of the Mineral Property that may be relevant and should be*
956 *included but are not listed here. It is the responsibility of the ACP(s) to decide on the relevant*
957 *topics to be included. The aim is to provide a concise and accurate account of the Mineral*
958 *Property on an 'if not, why not' basis. TR-FORM 1 provides the format for reports on*
959 *Exploration Results, Exploration Targets and/or Mineral Resources estimation, TR-FORM 2, for*
960 *economic assessment and Mineral Reserve estimation, and TR-FORM 3, for metallurgical*
961 *engineering study and assessment on a Mineral Deposit.*

- 962 **TR-FORM 1** **OUTLINE OF TECHNICAL REPORT FOR EXPLORATION RESULTS,**
963 **EXPLORATION TARGETS AND/OR MINERAL RESOURCE**
964 **ESTIMATION**
- 965
- 966 **TR-FORM 2** **OUTLINE OF TECHNICAL REPORT FOR ECONOMIC ASSESSMENT**
967 **AND MINERAL RESERVE ESTIMATION**
- 968
- 969 **TR-FORM 3** **OUTLINE OF TECHNICAL REPORT FOR A METALLURGICAL**
970 **ENGINEERING STUDY AND ASSESSMENT ON A MINERAL DEPOSIT**

971 **ANNEX II**

972 **ACCREDITED COMPETENT PERSON'S CONSENT FORM AND CONSENT STATEMENT, AND**
973 **CERTIFICATES**

974 **ANNEX III**

975 **APPENDIX 1 - OUTLINE OF COMMENTS ON PMRC 2020 TABLE 1 ASSESSMENT AND REPORTING**
976 **CRITERIA**

ANNEX I
GUIDELINES IN THE PREPARATION OF TECHNICAL REPORTS

TR-FORM 1			
OUTLINE OF TECHNICAL REPORT FOR EXPLORATION RESULTS, EXPLORATION TARGETS AND/OR MINERAL RESOURCES ESTIMATION			
		TITLE PAGE	
		<i>i.</i>	<i>State the title of the Technical Report and include the location of the Mineral Property, mining rights coverage, name and professional designation of Accredited Competent Person(s) (ACP(s)), Data Cut-off Date and Report Date of the Technical Report, and name of Issuer</i>
ACCREDITED COMPETENT PERSON'S CONSENT FORM AND CONSENT STATEMENT, AND CERTIFICATES			
		<i>i.</i>	<i>Attach ACP's Consent Form and Consent Statement as prescribed by Appendix 4 of the PMRC 2020</i>
		<i>ii.</i>	<i>Attach scanned copy of valid ACP Identification Card or Certificate of Accreditation of ACP(s)</i>
		<i>iii.</i>	<i>Attach scanned copy of valid PRC Professional Identification Card (PIC) of ACP(s)</i>
		<i>iv.</i>	<i>Attach scanned copy of valid Professional Tax Receipt</i>
		<i>v.</i>	<i>Have the documents mentioned in items i to iv notarized including Acknowledgment page showing the signature of ACP(s) and date of signing</i>
EXECUTIVE SUMMARY			
		<i>i.</i>	<i>Briefly summarize important information in the Technical Report, including purpose and scope of work, Mineral Property description and ownership, geology and mineralization, the status of exploration, Mineral Resources estimates, if any, and the ACP-Geologist(s)' conclusions and recommendations. The Executive Summary should have sufficient detail to allow the reader to understand the essentials of the Technical Report.</i>
		<i>ii.</i>	<i>Must state if the Technical Report is PMRC 2020-compliant and if the objectives of the Report have been met</i>
TABLE OF CONTENTS			
		<i>i.</i>	<i>List the contents of the Technical Report including figures, tables, photographs, and appendices referred to in the report. All figures, tables, photographs and appendices must be cited in the narrative.</i>
1.	INTRODUCTION		
1.1	Purpose and Scope of Work		
		<i>i.</i>	<i>State who commissioned the Technical Report and for whom it was prepared, whether it was intended as a complete or partial evaluation or for other purposes, work conducted, and Data Cut-off Date of the Technical Report</i>
		<i>ii.</i>	<i>Briefly describe the purpose and scope of work (i.e., whether in preliminary sampling, advanced exploration, Scoping, Pre-Feasibility Study (PFS), or Feasibility Study (FS), Life-of-Mine Plan (LoMP) for ongoing Mining Operations or decommissioning)</i>

		iii.	<i>Provide details of the personal inspection on the Mineral Property by each ACP or the reason why a personal inspection was not completed</i>
		iv.	<i>Must state if the Technical Report is PMRC 2020-compliant and if the objectives of the report have been met</i>
1.2	Country Profile (Optional for Mineral Property in the Philippines)		
		i.	<i>Provide brief information relating to the project host country pertinent to the Mineral Property, including relevant applicable legislation, environmental and social context, etc. This is a high-level assessment of relevant technical, environmental, social, economic, political, and other key risks.</i>
1.3	Location of the Mineral Property and Accessibility		
		i.	<i>Describe the location and accessibility of the Mineral Property (country, province(s), municipality(ies), and closest town/city, coordinate systems, mountain ranges, etc.)</i>
		ii.	<i>Discuss the modes and ease of access to the Mineral Property, the proximity to population center(s) and from the country capital</i>
		iii.	<i>Attach the relevant location map</i>
1.4	Property Description and Adjacent Properties		
		i.	<i>Provide a general description of the Mineral Property</i>
		ii.	<i>Provide details of relevant adjacent third-party mineral tenements, especially those having an important bearing on the Technical Report</i>
1.5	Qualifications of Accredited Competent Person(s), Key Technical Staff, and Other Experts		
		i.	<i>Describe briefly the competence and scope of work of each ACP(s), key technical staff, and experts in relation to the Technical Report</i>
1.6	Disclaimer		
		i.	<i>If ACP(s) relied on the report, opinion, statement of a legal, environmental, social, governance expert, etc., who is not a co-author of this Technical Report, the ACP(s) may include a disclaimer of responsibility on such information in the Technical Report</i>
1.7	Units of Measure, Currency, and Foreign Exchange Rates		
1.8	Previous Works		
		i.	<i>Arrange chronologically significant previous works</i>
		ii.	<i>Briefly describe essential work done by previous entities including Historical Data and Historical Estimates, if available</i>
		iii.	<i>Indicate sources of information (references) by citing published/unpublished report(s) or personal communication</i>
1.9	Previous Mineral Resources Estimates (if any)		
		i.	<i>Provide previous PMRC-compliant Mineral Resources estimates, if any. Historical Estimates, if any, are discussed in Sec. 1.8</i>
2.	TENEMENT AND MINERAL RIGHTS		
2.1	Description of Mineral Rights		
		i.	<i>Provide location of the Mineral Property - barangay, municipality, province, and region</i>
		ii.	<i>Include tenement map with technical descriptions of the boundaries as per coordinate system used by the relevant regulatory agency plus a topographic map of the tenement if necessary</i>
		iii.	<i>State the type of mineral agreement or permit, e.g., Exploration Permit (EP), Mineral Production Sharing Agreement (MPSA), Financial or Technical Assistance Agreement (FTAA), Coal Operating Contract (COC), Mine Operating Agreement, etc., number of tenement(s), tenement number(s), and area coverage in hectares</i>

	2.2	History and Current Status of Mineral Rights
	i.	<i>State in chronological order the history of the mineral rights, changes in official designations, agreements, companies involved, significant legal and technical events with dates</i>
	ii.	<i>State current holders of mineral rights specifying their % ownership / economic interest in the Mineral Property</i>
	iii.	<i>State validity period of current mineral rights</i>
	iv.	<i>Discuss agreements with respect to mineral rights including deed(s) of assignment, if any</i>
	2.3	Royalties, Receivables, and Liabilities
	i.	<i>Discuss royalties, taxes or streaming agreements, advances, and similar payments paid or to be paid by the Issuer to the mineral rights holder, joint venture partner(s), government, Indigenous People or Indigenous Cultural Community (IP/ICC), local government, and others</i>
	ii.	<i>Discuss receivables and payable sums to the Issuer and mineral rights holder which may include excise taxes</i>
	iii.	<i>Discuss any liabilities, including rehabilitation guarantees that are pertinent to the Mineral Property</i>
	iv.	<i>Describe the rehabilitation liability, including, but not limited to, legislative requirements, assumptions, and limitations</i>
3.		GEOGRAPHICAL AND ENVIRONMENTAL FEATURES
	3.1	Physiography, Climate, and Vegetation
	i.	<i>Describe the topography, physiography, drainage and vegetation, the climate, known associated climatic and seismic risks and the length of the operating period to the extent relevant to the Mineral Property</i>
	ii.	<i>Attach relevant map(s) if appropriate</i>
	3.2	Land Use and Infrastructures
	i.	<i>Describe current land use</i>
	ii.	<i>Discuss the sufficiency of surface rights and access for Mineral Exploration/Mining Operations, including the availability and sources of power, water, and potential mining infrastructures such as tailings storage areas, waste disposal areas, heap leach pad areas, processing plant sites, etc. (noting any conditions that may adversely affect possible exploration/mining activities)</i>
	3.3	Socio-Economic Environment
	i.	<i>Discuss demography within and outside the Mineral Property - composition of the host and neighboring communities, presence of Certificate(s) of Ancestral Domain Title (CADT(s)), if any, as well as exploration/mining workforce with respect to, but not limited to, ethnicity and culture</i>
	ii.	<i>Sources of income/livelihood of population, presence of IP/ICC, municipality class(es) to provide an appreciation of the existing socio-economic environment</i>
	3.4	Environmental Features
	i.	<i>Describe the environmental features within and adjoining the Mineral Property including those that may have an adverse impact to Mineral Exploration and future Mining Operations</i>
4.		HISTORY OF PRODUCTION

	4.1	Production History of District and Mineral Property
	<i>i.</i>	<i>State the area(s) previously mined and currently being mined within the Mineral Property</i>
	4.2	Production Statistics
	<i>i.</i>	<i>Provide tonnage/quantity and grade/quality mined and sold since start of production or for the last several years</i>
5.		SUSTAINABILITY CONSIDERATIONS
	<i>i.</i>	<p><i>General disclosures:</i></p> <ul style="list-style-type: none"> • <i>Impacts to the host & surrounding communities (environment, economic, and social aspects);</i> • <i>Commitments with regards to mitigation of negative impacts;</i> • <i>Strategy to monitor the mitigation of impact(s);</i> • <i>Frameworks the Issuer employs when implementing, monitoring, and reporting impacts; and</i> • <i>Procedure for periodic review of ESG disclosures and, If possible, comparison with global metrics.</i>
	5.1	Environmental Aspects
	<i>i.</i>	<p><i>State briefly:</i></p> <ul style="list-style-type: none"> • <i>Corporate environmental policy</i> • <i>International Organization for Standardization (ISO)/Environmental Management System (EMS) certifications in place for operating mine</i> • <i>Environmental compliance including project permitting requirements, the status of any permit applications, and any known requirements to post-performance or reclamation bonds</i> • <i>Environmental manual</i> • <i>Energy consumption and management. For operating mine, discuss any savings in energy usage or other reduction of consumption reflecting directly in the economic outcome of the Mining Project</i> • <i>Estimated greenhouse gas (GHG) emissions</i> • <i>Land and biodiversity management. For operating mine, state areas disturbed and areas rehabilitated/reforested</i> • <i>Water quality management – estimated volume of water consumption (cu. m., estimated volume of silt collected, oil spill prevention and control</i> • <i>Ambient air quality management</i> • <i>Dust and noise pollution management</i> • <i>Solid waste management</i> • <i>Hazardous waste management including special capital or operating requirements for handling hazardous minerals or reagents, as well as other health and industrial hygiene risks</i> • <i>Mineral waste management</i> • <i>Tailings disposal requirements and plans, if applicable, including site monitoring and water management, both during Mining Operations and post-mine closure</i> • <i>Mine closure (remediation and reclamation) requirements and costs</i> • <i>Climate-related risk and opportunities, etc.</i>
	5.2	Social Aspects
		<i>State briefly:</i>

		i.	<ul style="list-style-type: none"> • <i>Health and safety – number of employees in health and safety committee, total manhours, incidence rate, total lost days, etc.</i> • <i>Community assistance programs such as educational support, entrepreneurship, and health and wellness, promoting development of host and neighboring communities and/or IP/ICC</i> • <i>Employee welfare such as hiring and benefits, training and development, labor management relations, number or % of locals and IP/ICC people hired, etc.</i> • <i>Potential social or community-related requirements and plans for the Mining Project and the status of any negotiations or agreements with local communities and/or IP/ICC</i>
	5.3	Governance Aspects	
		i.	<p><i>State briefly:</i></p> <ul style="list-style-type: none"> • <i>Corporate governance statement, vision, mission, and core values</i> • <i>Governance structure, governance reports, governance policies, anti-graft and corruption policy, sustainable and ethical procurement/supplier accreditation policy, etc.</i> • <i>Trainings/courses on anti-corruption for directors, officers, and employees</i>
6.	GEOLOGICAL SETTING		
	6.1	Regional Geology	
		6.1.1	Tectonic Setting
		i.	<i>Discuss the regional tectonic setting (both geological and structural) where the Mineral Property is located</i>
		ii.	<i>Attach tectonic map</i>
		6.1.2	Regional Structures
		i.	<i>Discuss the geological structures on a regional and district-wide scale</i>
		ii.	<i>Attach relevant structural map</i>
		6.1.3	Regional Stratigraphy
		i.	<i>Characterize the rock formations and lithological distribution</i>
		ii.	<i>Attach relevant geological map</i>
		iii.	<i>Attach relevant geological section(s), if any</i>
		iv.	<i>Describe the geological relationships among rock formations</i>
		6.1.4	Prospects and/or Deposits in the Region
		i.	<i>Briefly discuss the mineralization location(s) and general description</i>
	6.2	Mineral Property Geology	
		6.2.1	Local Rock Units
		i.	<i>Describe the Rock Units, their composition, and their geological relationships</i>
		ii.	<i>Discuss geological evolution / cross-cutting relationships as to provenance, depositional, deformation, extrusive and/or intrusive events</i>
		iii.	<i>Discuss local stratigraphy - lithological definition, extent and correlation with regional rock formations, stratigraphic column</i>
		iv.	<i>Briefly discuss petrological studies, if any</i>
		v.	<i>Show photos of representative rock types in outcrop scale and/or rock slabs/specimens to show or emphasize lithological texture (e.g., brecciation, fracturing, volcanic, intrusive, sedimentary and/or metamorphic features)</i>
		vi.	<i>Discuss age dating, if any</i>

		6.2.2	Local Structures
		i.	<i>Describe the various geological structures and their trends, e.g., lineaments, faults, fracture pattern, bedding, folds, unconformities, etc.</i>
		ii.	<i>Show any geophysical / remote sensing interpretative map that relates to mapped and interpreted field structures and mineralization patterns in the Mineral Property and/or Mineral Deposit</i>
		iii.	<i>Discuss supportive structural study(ies) such as stereonet, rose diagram, oriented drill core data, etc., if any</i>
7.	MINERALIZATION IN THE MINERAL PROPERTY		
	7.1	Mineral Deposit Type	
		i.	<i>State the Mineral Deposit type(s) exhibited in the Mineral Property such as podiform chromite, porphyry copper, skarn, epithermal gold-silver, Carlin-type gold, volcanogenic massive sulfide, orogenic gold, nickel laterite, placer gold, magnetite sands, coal, industrial minerals, cement feed materials, construction raw materials, dimension stone, ornamental and decorative stone, etc.</i>
		ii.	<i>Provide an overview of the Mineral Deposit type(s) in the Mineral Property</i>
	7.2	Style of Mineralization	
		i.	<i>Describe in detail the mineralization exhibited by the Mineral Deposit(s) and prospects in the Mineral Property, showing mineralization patterns, both laterally and vertically, and illustrated in surface map, sections and/or level plans</i>
		ii.	<i>Discuss the ore/gangue mineralogy, ore textures</i>
		iii.	<i>Briefly discuss petrological and mineralogical studies such as petrographic study, mineragraphic study, scanning electron microscope (SEM) imaging/microprobe analysis, fluid inclusion, isotopic studies, etc., if any</i>
	7.3	Wall Rock Alteration, Zoning, and Paragenesis	
		i.	<i>Discuss wall rock alteration types and mineralogy</i>
		ii.	<i>Discuss briefly wall rock alteration studies done - petrography, X-ray diffraction (XRD), spectral mapping/measurements, magnetic susceptibility measurements, etc.</i>
		iii.	<i>Discuss spatial, temporal, and genetic association of wall rock alteration with mineralization (e.g., pre-, syn-, late- and/or post-mineralization), element grade levels and patterns</i>
	7.4	Localization of the Deposit and Continuity of Mineralization	
		i.	<i>Discuss mineralization controls - e.g., structural, lithological, supergene oxidation / enrichment, development of "ore shoots", etc.</i>
		ii.	<i>Discuss geometry of the Mineral Deposit(s) - Length, width, depth, and shape of mineralization</i>
	7.5	Supergene Effects	
		i.	<i>Describe the supergene effect that results to oxide, transitional, and sulfide zones in the Mineral Deposit(s), if any</i>
8.	EXPLORATION RESULTS		
	8.1	Geological Work	
		i.	<i>Briefly discuss geological data generated from mapping and surface/sub-surface sampling</i>

		<i>ii.</i>	<i>Provide geological map, sections, and level plans</i>
		<i>iii.</i>	<i>Provide sample location map, sections, and level plans</i>
	8.2	Field Sampling Results	
		<i>i.</i>	<i>Summarize float rock sampling results</i>
		<i>ii.</i>	<i>Summarize outcrop sampling results</i>
		<i>iii.</i>	<i>Summarize grab and rock chip sampling results</i>
		<i>iv.</i>	<i>Summarize channel sampling results</i>
		<i>v.</i>	<i>Summarize trench sampling results</i>
		<i>vi.</i>	<i>Summarize test pit sampling results</i>
		<i>vii.</i>	<i>Summarize underground sampling results</i>
		<i>viii.</i>	<i>Summarize petrological, mineralogical, paleontological, and other rock/mineral-related studies</i>
		<i>ix.</i>	<i>Provide sample location map(s)</i>
	8.3	Geochemical Survey	
		<i>i.</i>	<i>Describe geochemical survey type - drainage, soil, rock, etc.</i>
		<i>ii.</i>	<i>Describe sampling and analytical methods employed</i>
		<i>iii.</i>	<i>State laboratory(ies) utilized</i>
		<i>iv.</i>	<i>State the Quality Assurance/Quality Control measures employed</i>
		<i>v.</i>	<i>State detection limits of analytical method(s)</i>
		<i>vi.</i>	<i>Define background, threshold, and anomaly levels for the elements determined</i>
		<i>vii.</i>	<i>Describe synthesis and interpretative techniques (for single and multi-element) to bring out significant geochemical features related to mineralization</i>
		<i>viii.</i>	<i>Describe geochemical anomalies detected with use of maps</i>
		<i>ix.</i>	<i>Relate geochemical findings to geology and mineralization</i>
	8.4	Geophysical Survey	
		<i>i.</i>	<i>Describe geophysical method(s) used and objective of the survey(s)</i>
		<i>ii.</i>	<i>Describe whether a geophysical contractor, independent consultant or in-house staff was involved in the conduct of the geophysical survey</i>
		<i>iii.</i>	<i>Describe equipment used, its limitations, and the survey parameters adopted</i>
		<i>iv.</i>	<i>Describe how it was carried out (design of stations with respect to mineralization trend)</i>
		<i>v.</i>	<i>Describe location method(s) of survey grid or tracks</i>
		<i>vi.</i>	<i>Describe the data processing and interpretative tools used</i>
		<i>vii.</i>	<i>Describe geophysical anomalies detected with use of maps, sections, and level plans</i>
		<i>viii.</i>	<i>Relate geophysical findings to geology and mineralization</i>
	8.5	Remote Sensing Results	
		<i>i.</i>	<i>Describe remote sensing method(s) used and objective of the survey(s)</i>
		<i>ii.</i>	<i>Describe whether a remote sensing contractor, independent consultant or an in-house staff was engaged in the conduct of the remote sensing survey(s)</i>
		<i>iii.</i>	<i>Describe equipment used, its limitations, and the survey parameters adopted</i>
		<i>iv.</i>	<i>Describe how it was carried out (design of stations with respect to mineralization trend)</i>
		<i>v.</i>	<i>Describe the data processing and interpretative tools used</i>
		<i>vi.</i>	<i>Describe remote sensing features with use of maps</i>
		<i>vii.</i>	<i>Relate remote sensing findings to geology and mineralization</i>
	8.6	Drilling and Sampling	
		8.6.1	Type of Drilling Program

		<i>i.</i>	<i>Describe the type of drilling undertaken (e.g., core, reverse circulation (RC), open-hole hammer, rotary air blast, auger, etc.) and details (e.g., drilling contractor(s), drilling equipment, drill diameter size(s), triple or standard tube, whether core is oriented and if so, by what method, etc.)</i>
		<i>ii.</i>	<i>Discuss methodology and equipment used in the drill collar location, drill orientation, and downhole surveys and their accuracies</i>
		<i>iii.</i>	<i>Discuss drill hole spacing, depth of drilling, number of drillholes, the total length and percentage of the relevant intersections logged</i>
		<i>iv.</i>	<i>Provide drill hole location map</i>
		8.6.2	Drill Logging Method
		<i>i.</i>	<i>Describe geological logging (lithological, weathering, structure, wall rock alteration, mineralization, etc.), drill diameter size, core recovery, and geotechnical logging for rock mass characterization relative to the level of detail required to support appropriate Mineral Resources estimation, mining studies, and metallurgical studies</i>
		<i>ii.</i>	<i>State the nature of logging (qualitative, semi-quantitative, or quantitative) and the use of drill core photography (or trench, channel, etc.)</i>
		8.6.3	Drill Sampling Method, Collection, Capture, and Storage
		<i>i.</i>	<i>Describe the nature and quality of sampling, and sampling processes, including sub-sampling stages to maximize representativeness of samples, whether sample sizes are appropriate to the grain size of the mineralization/material being sampled, and if any composite sampling was undertaken</i>
		<i>ii.</i>	<i>Describe each data set (e.g., geology, grade, bulk density, quality, geo-metallurgical characteristics, etc.), sample type, sample-size selection, and collection methods</i>
		<i>iii.</i>	<i>State the nature of the geometry of the mineralization with respect to the drill hole angle (if known), the orientation of sampling to achieve unbiased sampling of possible structures, considering the Mineral Deposit type, the intersection angle, and the downhole lengths if the intersection angle is not known</i>
		<i>iv.</i>	<i>Describe the Issuer's retention policy and storage of physical samples (e.g., core, sample reject, etc.)</i>
		<i>v.</i>	<i>Describe the method of recording and assessing sample recoveries and the results; measures taken to maximize sample recovery and ensure representative nature of the samples; whether a relationship exists between recovery and grade; and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material</i>
		<i>vi.</i>	<i>Describe the cutting of drill core samples, e.g., whether split or sawn and whether quarter, half or full core was submitted for analysis. For non-core sampling, state, e.g., whether the sample was riffled, tube sampled, rotary split, etc.; whether it was sampled wet or dry; the impact of water table or flow rates on recovery and introduction of sampling biases or contamination arising from, but not limited, to the aforementioned factors</i>
		8.7	Sample Preparation, Analysis, and Security
		8.7.1	Sample Preparation and Analysis
		<i>i.</i>	<i>State the identity of the sample preparation and analytical laboratory(ies) and their accreditation status (in-house, contracted or commercial). If from a non-accredited laboratory, discuss steps taken by the Issuer to ensure that results are of an acceptable quality.</i>
		<i>ii.</i>	<i>Describe the process and method used for sample preparation, sub-sampling and size reduction (sample preparation flow sheet), and the likelihood of inadequate or non-representative samples (i.e., improper size reduction, contamination, screen sizes, granulometry, mass balance, etc.)</i>

		<i>iii.</i>	<i>Describe the analytical methods used, their nature including effective grade range, the quality and appropriateness of the assaying and laboratory processes and procedures used, and whether the extraction techniques are partial or total.</i>
		8.7.2	Sample Governance
		<i>i.</i>	<i>Discuss the governance of the sampling campaign and process to ensure quality and representativeness of samples and data, such as sample recovery, high grading, selective losses or contamination, core/hole diameter, use of internal and/or external QC standards, and any other factors that may have resulted in or identified sample bias</i>
		<i>ii.</i>	<i>Discuss the measures taken to ensure sample security and the chain of custody</i>
		<i>iii.</i>	<i>Discuss the validation procedures used to ensure the integrity of the data (e.g., transportation, input or other errors) between its initial collection and its future use for modeling (e.g., geology, grade, bulk density, etc.)</i>
		<i>iv.</i>	<i>Discuss the audit process and frequency (including dates of these audits) and disclose any material risks identified</i>
		8.7.3	Quality Assurance/Quality Control (QA/QC)
		<i>i.</i>	<i>Discuss measures taken to ensure sample representativeness and the appropriate calibration of any measurement tools or systems</i>
		<i>ii.</i>	<i>Discuss the Data Verification and Data Validation techniques (i.e., QA/QC) to ascertain precision and accuracy and lack of contamination of sample preparation and analysis using duplicates (field sampling and sub-sampling levels), certified reference material (CRM) and/or standards, blanks, check assaying, inter-laboratory audits, etc.</i>
		<i>iii.</i>	<i>Cite QA/QC procedures used to check if databases augmented with ‘new’ data are comparable to previous versions containing ‘old’ data</i>
		8.7.4	Statement of the ACP on the Quality of Sample Security, Preparation, Analysis, and Data Verification and Data Validation
	8.8		Bulk Density Measurements
		<i>i.</i>	<i>Discuss the method of bulk density determination with reference to the frequency of measurements, the size, nature, and representativeness of the samples (e.g., water displacement, caliper method, sand cone method, test pitting, etc.)</i>
		<i>ii.</i>	<i>Provide preliminary estimates or basis of assumptions made for bulk density</i>
		<i>iii.</i>	<i>Describe measurement of bulk density for bulk material using methods that adequately account for void spaces (vugs, porosity, etc.), moisture, and differences between rock and alteration zones within the Mineral Deposit(s)</i>
		<i>iv.</i>	<i>Discuss the representativeness of bulk density figure(s) used in the Mineral Resources estimate, preferably with statistical basis</i>
	8.9		Bulk Sampling and/or Trial Mining
		<i>i.</i>	<i>Describe the location of the individual samples (including map)</i>
		<i>ii.</i>	<i>Describe the size of samples, spacing/density of samples recovered, and whether sample sizes and distribution are appropriate to the grain size of the material being sampled</i>
		<i>iii.</i>	<i>Discuss the method of mining and treatment</i>
		<i>iv.</i>	<i>Discuss the degree to which the samples are representative of the various types and styles of mineralization and the Mineral Deposit as a whole</i>
	8.10		Geodetic and Topographical Survey
		<i>i.</i>	<i>Discuss the scope and methodology, survey scale and accuracy, and surveying equipment (brand and model) used</i>
		<i>ii.</i>	<i>Discuss the limitations, if any</i>

9.	DECLARATION OF EXPLORATION TARGET(S) (Optional)	
	i.	<i>Provide a statement or estimate of the Exploration Target(s) in a defined geological setting where the statement or estimate, quoted as a range of tonnage (or quantity) and a range of grade (or quality) relates to mineralization for which there has been insufficient exploration to estimate a Mineral Resource</i>
	ii.	<i>Provide a detailed explanation of the basis for the statement of Exploration Target(s), which must specifically discuss the geological setting, the exploration strategy, and exploration activity already completed and the presence of or lack of the following attributes: mineralized outcrops and assays, surface geochemical sampling results, surface and subsurface geophysical survey results, and drill holes, test pits, and underground workings</i>
	iii.	<i>Provide the proposed exploration activities designed to test the validity of the Exploration Target(s) which must be detailed and the timeframe within which those activities are expected to be completed must be specified.</i>
	iv.	<i>All disclosures of the Exploration Target(s) must clarify whether the Exploration Target(s) is based on actual Exploration Results or on proposed exploration programs. Where the statement of Exploration Target(s) includes information relating to ranges of tonnage (or quantity) and grade (or quality), these must be represented as approximations. The explanatory text must include a description of the process used to determine the grade and tonnage ranges to describe the Exploration Target.</i>
10.	ESTIMATION OF MINERAL RESOURCES	
	10.1	Mineral Deposit Model and Interpretation
	i.	<i>Discuss the nature, detail, and reliability of geological information with which lithological, structural, mineralogical, alteration or other geological, geotechnical, and geo-metallurgical characteristics were recorded</i>
	ii.	<i>Describe and provide an illustration of the Mineral Deposit model, and state the assumptions that form the basis for the Mineral Resources estimate. There should be sufficient data density to assure continuity of mineralization and geology, and provision of an adequate basis for the estimation and classification procedures.</i>
	iii.	<i>Include a discussion on geological discounts (e.g., magnitude, per reef, domain, etc.) applied in the model, whether applied to mineralized and/or unmineralized material (e.g., faults, dikes, etc.)</i>
	iv.	<i>State any obvious geological, mining, metallurgical, processing, environmental, social, infrastructural, legal, and economic factors that could have a significant effect on the Reasonable Prospect for Eventual Economic Extraction (RPEEE) of any possible Exploration Target or Mineral Deposit</i>
	v.	<i>Include geological data that have material influence on the estimated quantity and quality of the Mineral Resources</i>
	vi.	<i>Consider alternative interpretations or models, if any, and their possible effect (or potential risk) if any, on the Mineral Resources estimate</i>
	10.2	Database and Software Used in the Estimation of Mineral Resources
	i.	<i>Describe current database, including validated Historical Estimates, if any, with stated Data Cut-off Date</i>
	ii.	<i>State type of sample database - core, RC, and/or trench samples</i>
	iii.	<i>Discuss survey data of samples including accuracy of drill collar location, drill orientation, and downhole surveys</i>
	iv.	<i>Discuss assay data</i>
	v.	<i>Discuss bulk density data</i>

		vi.	<i>Describe any relevant specialized computer program (software) used (with the version number) together with the parameters used</i>
	10.3	Database Integrity, Verification, and Validation	
		i.	<i>Discuss the processes of checking and validation used to ensure the integrity of all data used in the Mineral Resources estimate</i>
		ii.	<i>State limitations, if any</i>
	10.4	Basic Statistical Parameters	
		i.	<i>Provide basic statistical parameters of the raw data - mean, median, minimum, maximum, standard deviation, coefficient of variation, histograms, normal or lognormal population(s), etc.</i>
	10.5	Mineral Resource Estimation and Modeling Methodology	
		i.	<i>Describe in detail the Mineral Resources Estimation and Modeling methodology and assumptions used - (a) conventional methods, e.g., polygonal, cross-sectional, estimation by panels (blocking), inverse distance weighting, etc. or (b) geostatistical methods, e.g., kriging</i>
		ii.	<i>If geostatistics is used, must show variogram(s) and parameters (e.g., sill, range, nugget effect) depending on variogram type, sizes of estimation panels or blocks, assumed or known selective mining units.</i>
		iii.	<i>Discuss the nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values (cutting or capping), compositing (including by length and/or density), domaining, sample spacing, estimation unit size (block size), selective mining units, interpolation parameters, and maximum distance of extrapolation from data points.</i>
		iv.	<i>Provide the assumptions and justification of correlations made between variables</i>
		v.	<i>Describe any relevant specialized computer program (software) used (with the version number) together with the parameters used.</i>
		vi.	<i>Discuss the processes of checking and validation, the comparison of model information to sample data, and use of reconciliation data, and whether the Mineral Resources estimate takes account of such information.</i>
		vii.	<i>State the assumptions made regarding the estimation of any co-products, by-products or deleterious elements.</i>
		viii.	<i>State Cut-off Grade(s) used in the Mineral Resources estimation</i>
	10.6	Reasonable Prospects for Eventual Economic Extraction (RPEEE)	
		10.6.1	Geological Parameters
		i.	<i>Discuss the geological parameters including, but not limited to, volume/tonnage, grade/quality estimates, Cut-off Grade(s)/quality(ies)</i>
		10.6.2	Engineering Parameters
		i.	<i>Discuss the engineering parameters, including mining method, processing, geotechnical, hydrogeological, and metallurgical parameters, including assumptions made to mitigate the effects of deleterious elements</i>
		10.6.3	Dilution and Mining Recovery
		i.	<i>Discuss dilution and mining recovery factors that might be applicable to convert Mineral Resources to Mineral Reserves</i>
		10.6.4	Infrastructures
		i.	<i>Discuss the infrastructures including, but not limited, to power, water, and site access</i>
		10.6.5	Legal, Government, Permitting and Licensing, and Statutory Parameters

		<i>i.</i>	<i>Discuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if any</i>
		10.6.6	Environmental and Social Parameters
		<i>i.</i>	<i>Discuss the sufficiency of surface rights for exploration/mining operations including the availability and sources of exploration/mining personnel</i>
		<i>ii.</i>	<i>Provide a summary of the results of any environmental studies and a discussion of any known environmental issues, if any, that could materially impact the company's ability to extract the Mineral Resources.</i>
		10.6.7	Marketing Parameters
		<i>i.</i>	<i>Discuss the marketing issues such as commodity prices or customer's specifications, and sales volume expectations used for the determination of Mineral Resources based on reasonable forward-looking estimates reflecting the company's short- and long-term expectations as supported by available evidence, which may include consensus forecasts, three-year trailing averages, sales contracts, or other price analyses</i>
		10.6.8	Economic Assumptions and Parameters
		<i>i.</i>	<i>Discuss the economic assumptions and parameters including, but not limited to commodity prices, sales volume, and potential capital and operating costs</i>
		10.6.9	Material Risks
		<i>i.</i>	<i>Discuss risks of material significance (e.g., sovereign, legal, environmental, social license to operate, climatic, seismic, technological, etc.)</i>
	10.7		Mineral Resource Categories
		<i>i.</i>	<i>Discuss the criteria and methods used as the bases for the classification of the Mineral Resources into varying confidence categories</i>
		<i>ii.</i>	<i>When appropriate, state the relative accuracy and confidence level in the Mineral Resources estimate using an approach or procedure deemed appropriate by the ACP-Geologist(s). For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the Mineral Resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate. It should specify whether it relates to global or local estimates, and, if local, state the relative tonnages, which should be relevant to technical and economic evaluation. Documentation shall include assumptions made and the procedures used. These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</i>
	10.8		Mineral Resources Estimates
		<i>i.</i>	<i>Tabulate the Indicated and Measured Mineral Resources separately from the Inferred Mineral Resources of the primary product and by-product(s) (if any) per source, i.e., surface or underground mine, residue stockpile, remnants, dumps, tailings, pillars, or other sources. The Cut-off Grades/quality(ies) for estimating Mineral Resources of any category must be stated.</i>
		<i>ii.</i>	<i>If there is a previous Mineral Resources estimate, provide a comparison with the current Mineral Resources estimate, with an explanation of the reason(s) for material changes. Provide a comment on any historical trends (e.g., global bias).</i>
		<i>iii.</i>	<i>Discuss the processes of checking and validation, the comparison of model information with sample data and use of reconciliation data, and whether the Mineral Resources estimate is consistent with the information (e.g., manual inspection of block model grades compared to actual or composite grades of drill holes and/or underground workings plotted in sections and/or level plans)</i>

		iv.	<i>Discuss the basis for the Mineral Resources estimate and if not 100% owned by the Issuer, the attributable percentage relevant to the Issuer of the Technical Report</i>
11. DISCUSSION AND CONCLUSIONS			
		i.	<i>Provide a synthesis of all the data and information</i>
		ii.	<i>Discuss the adequacy of data, overall data integrity, and areas of uncertainty</i>
		iii.	<i>State the overall conclusions by the ACP-Geologist(s) as guided by the purpose and scope of work of this Technical Report</i>
		iv.	<i>The ACP-Geologist(s) must discuss whether the Technical Report met the purpose and scope of work set forth and whether it is PMRC 2020 compliant.</i>
12. RECOMMENDATIONS			
		i.	<i>Based on the discussion and conclusions (under Sec. 11), present a list of recommendations to guide the Issuer on the course of action to take. Be it positive or negative, the ACP-Geologist(s) should ascertain that there is/are adequate basis/bases for such recommendations.</i>
13. REFERENCES			
		i.	<i>List of references cited in the Technical Report, whether published or unpublished</i>
		ii.	<i>In the absence of a preferred format for citing references, one may use the American Psychological Association (APA) format.</i>
APPENDICES			
1	Comments on PMRC 2020 Table 1 Assessment and Reporting Criteria		
		i.	<i>Mandatory comprehensive listing of PMRC 2020 Table 1 Check List of Assessment and Reporting Criteria with corresponding ACP's Comment</i>
2	List of Acronyms		
		i.	<i>Mandatory comprehensive listing of all acronyms used in the Technical Report</i>
3. Etc.	Other Appendices, if needed		
		i.	<i>Map(s) or plates (larger than A4 sized format)</i>
		ii.	<i>Sections and level plans (larger than A4 sized format)</i>
		iii.	<i>Other relevant data</i>

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TR-FORM 2			
OUTLINE OF TECHNICAL REPORT FOR ECONOMIC ASSESSMENT AND MINERAL RESERVES ESTIMATION			
	TITLE PAGE		
		<i>i.</i>	<i>State the title of the Technical Report and include the location of the Mineral Property, mining rights coverage, name and professional designation of the Accredited Competent Person(s) (ACP(s)), Data Cut-off Date and Report Date of the Technical Report, and name of the Issuer</i>
ACCREDITED COMPETENT PERSON'S CONSENT FORM AND CONSENT STATEMENT, AND CERTIFICATES			
		<i>i.</i>	<i>Attach ACP's Consent Form and Consent Statement as prescribed by Appendix 4 of the PMRC 2020</i>
		<i>ii.</i>	<i>Attach scanned copy of valid ACP Identification Card or Certificate of Accreditation of ACP(s)</i>
		<i>iii.</i>	<i>Attach scanned copy of valid PRC Professional Identification Card (PIC) of ACP(s)</i>
		<i>iv.</i>	<i>Attach scanned copy of valid Professional Tax Receipt</i>
		<i>v.</i>	<i>Have the documents mentioned in items i to iv notarized including Acknowledgment page showing the signature of ACP(s) and date of signing</i>
EXECUTIVE SUMMARY			
		<i>i.</i>	<i>Briefly summarize important information in the Technical Report, including purpose and scope of work, Mineral Property description and ownership, geology and mineralization, the status of exploration, development, and operations, Mineral Resources and Mineral Reserves estimates, development schedule(s), capital expenditure, direct operating costs, and the ACP-Mining Engineer(s)' conclusions and recommendations. The Executive Summary should have sufficient detail to allow the reader to understand the essentials of the Technical Report.</i>
		<i>ii.</i>	<i>State if the Technical Report is PMRC 2020-compliant and if the objectives of the report have been met</i>
TABLE OF CONTENTS			
		<i>i.</i>	<i>List the contents of the Technical Report including figures, tables, photographs, and appendices referred in the report. All figures, tables, photographs, and appendices must be cited in the narrative.</i>
1.	INTRODUCTION		
	1.1	Purpose and Scope of Work	
		<i>i.</i>	<i>State who commissioned the Technical Report and for whom it was prepared, whether it was intended as a complete or partial evaluation or for other purposes, the work conducted, and Data Cut-off Date of the Technical Report</i>
		<i>ii.</i>	<i>Briefly describe the purpose and scope of work (i.e., whether in preliminary sampling, advanced exploration, Scoping Study, Pre-Feasibility Study (PFS), or Feasibility Study (FS), Life-of-Mine Plan (LoMP) for ongoing Mining Operations or decommissioning)</i>
		<i>iii.</i>	<i>Provide the details of the personal inspection on the Mineral Property by each ACP or, the reason why a personal inspection was not completed</i>

		iv.	<i>State if the Technical Report is PMRC 2020-compliant and if the objectives of the report have been met</i>
	1.2	Country Profile (Optional for Mineral Property in the Philippines)	
		i.	<i>Provide brief information relating to the project host country that is pertinent to the Mineral Property, including relevant applicable legislation, environmental, and social context, etc. This is a high-level assessment of relevant technical, environmental, social, economic, political, and other key risks.</i>
	1.3	Location of the Mineral Property and Accessibility	
		i.	<i>Describe the location and accessibility of the Mineral Property (country, province(s), municipality(ies), and closest town/city, coordinate systems, mountain ranges, etc.)</i>
		ii.	<i>Discuss the modes and ease of access to the Mineral Property, the proximity to population center(s) and from the country capital</i>
		iii.	<i>Attach the relevant location map</i>
	1.4	Property Description and Adjacent Properties	
		i.	<i>Provide a general description of the Mineral Property</i>
		ii.	<i>Provide details of relevant adjacent third-party mineral tenements, especially those having an important bearing on the Technical Report</i>
	1.5	Qualifications of Accredited Competent Person(s), Key Technical Staff, and Other Experts	
		i.	<i>Describe briefly the competence and scope of work of each ACP, key technical staff, and experts in relation to the Technical Report</i>
	1.6	Disclaimer	
		i.	<i>If ACP(s) relied on the report, opinion, statement of a legal, environmental, social, governance expert, etc., who is not a co-author of this Technical Report, the ACP(s) may include a disclaimer of responsibility on such information in the Technical Report.</i>
	1.7	Units of Measure, Currency, and Foreign Exchange Rates	
	1.8	Previous Works	
		i.	<i>Arrange chronologically significant previous works</i>
		ii.	<i>Briefly describe essential work done by previous entities including Historical Data and Historical Estimates, if available</i>
		iii.	<i>Indicate sources of information (references) by citing published/unpublished report(s) or (personal communication</i>
	1.9	Previous Mineral Reserves Estimates (if any)	
		i.	<i>Provide previous PMRC-compliant Mineral Reserves estimates, if any. Historical Estimates, if any, are discussed in Sec. 1.8</i>
	2.	TENEMENT AND MINERAL RIGHTS	
		i.	<i>Subsections and corresponding guidance notes are exactly the same as in Section 2 of the TR-FORM 1.</i>
	3.	GEOGRAPHICAL AND ENVIRONMENTAL FEATURES	
		i.	<i>This section and corresponding guidance notes are exactly the same as in Section 3 of TR-FORM 1.</i>
		ii.	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>

4.	HISTORY OF PRODUCTION	
	<i>i.</i>	<i>This section and corresponding guidance notes are exactly the same as in Section 4 of TR-FORM 1.</i>
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>
5.	SUSTAINABILITY CONSIDERATIONS	
	<i>i.</i>	<i>This section and corresponding guidance notes are exactly the same as in Section 5 of TR-FORM 1.</i>
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>
6.	GEOLOGICAL SETTING	
	<i>i.</i>	<i>This section and corresponding guidance notes are exactly the same as in Section 6 of TR-FORM 01.</i>
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>
7.	MINERALIZATION IN THE MINERAL PROPERTY	
	<i>i.</i>	<i>This section and corresponding guidance notes are exactly the same as in Section 7 of TR-FORM 1.</i>
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>
8.	EXPLORATION RESULTS	
	<i>i.</i>	<i>Repeat or summarize only the subsections of Section 8 of TR-FORM 1 that are relevant to the Mineral Reserves estimation of the Mineral Property especially Subsections 8.6, 8.7, 8.8, 8.9, and 8.10</i>
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>
9.	ESTIMATION OF MINERAL RESOURCES	
	<i>i.</i>	<i>This section and corresponding guidance notes are exactly the same as in Section 10 of TR-FORM 1. Section 10.6 on Reasonable Prospects for Eventual Economic Extraction (RPEEE) in TR-FORM 1 is not to be repeated here since the Modifying Factors are more detailed in Section 10 (Economic Assessment of the Mining Project) of TR-FORM 2.</i>
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>
	9.1	Mineral Deposit Model and Interpretation
	<i>i.</i>	<i>This subsection and corresponding guidance notes are exactly the same as in Section 10.1 of TR-FORM 1.</i>
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>
	9.2	Database & Software Used in the Estimation of Mineral Resources
	<i>i.</i>	<i>This subsection and corresponding guidance notes are exactly the same as in Section 10.2 of TR-FORM 1.</i>

	9.3	Database Integrity, Verification, and Validation	
	<i>i.</i>	<i>This subsection and corresponding guidance notes are exactly the same as in Section 10.3 of TR-FORM 1.</i>	
	9.4	Basic Statistical Parameters	
	<i>i.</i>	<i>This subsection and corresponding guidance notes are exactly the same as in Section 10.4 of TR-FORM 1.</i>	
	9.5	Mineral Resources Estimation and Modeling Techniques	
	<i>i.</i>	<i>This subsection and corresponding guidance notes are exactly the same as in Section 10.5 of TR-FORM 1.</i>	
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>	
	9.6	Mineral Resource Categories	
	<i>i.</i>	<i>This subsection and corresponding guidance notes are exactly the same as in Section 10.7 of TR-FORM 1.</i>	
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>	
	9.7	Mineral Resources Estimates	
	<i>i.</i>	<i>This subsection and corresponding guidance notes are exactly the same as in Section 10.8 of TR-FORM 1.</i>	
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.</i>	
10.	ECONOMIC ASSESSMENT OF THE MINING PROJECT		
	10.1	Brief Description of the Mining Project	
	<i>i.</i>	<i>Provide an overview of the Mining Project including (a) planned mining and processing operations, (b) estimated life of mine, (c) ore to be mined/product(s) to be produced</i>	
	10.2	Description of Mineral Resources Estimates used as Basis for Conversion to Mineral Reserves	
	<i>i.</i>	<i>Emphasize the aspects of the definition of Mineral Reserves i.e., it is the economically mineable part of Measured and/or Indicated Mineral Resources by applying the Modifying Factors as discussed in detail in Subsections 10.4 to 10.10 inclusive</i>	
	<i>ii.</i>	<i>Whenever necessary, the ACP-Mining Engineer should comment or discuss important related issues about this section from the mining point of view.</i>	
	10.3	Level of Economic Assessment	
	<i>i.</i>	<i>If the project is not yet a mine, the Technical Report is at the level of a project feasibility at least at the PFS level. If the project is already an on-going mine, the economic assessment is categorized as an ongoing LoMP study.</i>	
	<i>ii.</i>	<i>This Technical Report converts the estimated Mineral Resource (categorized with tonnage/volume and grade/quality) to an estimated Mineral Reserves through a feasibility or LoMP process, involving field and laboratory works, estimates and costings, directions to take from several options, technology and financial analyses and screened through the Modifying Factors</i>	
	10.4	Technical Aspects	
		10.4.1	Mining Plans
		10.4.1.1	Mining Method(s)

			<i>i.</i>	<i>Describe the mining method(s) to be used</i>
			10.4.1.2	Mine Design/Mining Parameters/Geotechnical Parameters
			<i>i.</i>	<i>Discuss and highlight the essential elements such as equipment selected, grade control methods, geotechnical and hydrological considerations, mine design characteristics, and ventilation/cooling requirements</i>
			<i>ii.</i>	<i>For open cut mines, include a discussion of pit slopes, slope stability, and strip ratio</i>
			<i>iii.</i>	<i>For underground mines, include a discussion of mining method, geotechnical considerations, mine design characteristics, and ventilation/cooling requirements</i>
			10.4.1.3	Mining Recovery, Dilution, and Losses
			<i>i.</i>	<i>Explain how the mining recovery, dilution, and losses were estimated</i>
			10.4.1.4	Planned Production Rate/Production Schedule/Estimated Life of Mine
			10.4.1.5	Work Schedules at the Mining Project
			10.4.1.6	List of Mining Equipment and Auxiliary Machinery
			<i>i.</i>	<i>Cite the specifications as to size and capacities</i>
			10.4.1.7	Mine Infrastructures
			<i>i.</i>	<i>List down all major infrastructures related to production, environmental protection, and mine support. Include major infrastructures that are not related to production but are of significant costs and land area requirements within and outside of the Mineral Property</i>
			10.4.1.8	Mine Development Plans and Schedule
			<i>i.</i>	<i>Discuss the engineering, planning, estimating, scheduling, and construction requirements of the whole mine and mill industrial complex including support structures and services.</i>
			<i>ii.</i>	<i>Prepare and explain the master development plan which should cover activities and commitments up to the completion of the final Mine Rehabilitation and/or Decommissioning Plan (FMR/DP). Prepare a general arrangement map showing the infrastructures in the industrial complex, those for production, mine support, environmental, amenities, etc.</i>
			<i>iii.</i>	<i>Prepare a bar chart of activities showing the start and completion of all major infrastructures in its proper sequence. (A bar chart may be utilized in lieu of a Project Evaluation and Review Technique and Critical Path Method (PERT CPM) type but there should be a mention of activities in the “critical path” and activities which may be built simultaneously and also those which have plenty of slack time for completion.)</i>
		10.4.2	Processing Plans	
			<i>i.</i>	<i>This section is all about the Technical Report for a Metallurgical Engineering Study (as outlined in TR-FORM 3) prepared by the ACP-Metallurgical Engineer. Anything related to the processing plans required by TR-FORM 2 may be lifted from the said Technical Report.</i>

			<i>ii.</i>	<i>The ACP-Mining Engineer should comment, discuss, and highlight important topics and issues taken up in this section, i.e., list of milling equipment, recovery, industrial water supply, structures and design particularly of a Tailings Storage Facility (TSF) if one is needed, etc.</i>
			10.4.2.1	Metallurgical Test Works Results
			<i>i.</i>	<i>Discuss the source of the samples, the representativeness of the potential feed, and the techniques used to obtain the samples, laboratory, and metallurgical testing techniques</i>
			<i>ii.</i>	<i>Discuss the basis for assumptions or predictions regarding metallurgical amenability and any preliminary mineralogical test work carried out</i>
			10.4.2.2	Metallurgical Process Flowsheet/Process Plant Design/Material Balance
			<i>i.</i>	<i>Discuss the processing method(s) and associated equipment</i>
			<i>ii.</i>	<i>Show a detailed flow sheet/diagram and a material balance, especially for multi-product operations from which the saleable materials are priced for different chemical and physical characteristics.</i>
			<i>iii.</i>	<i>Briefly discuss the assumptions or allowances made for deleterious elements and the existence of any bulk-sample or pilot-scale test work and the degree to which such samples are representative of the ore body as a whole.</i>
			<i>iv.</i>	<i>Disclose whether the metallurgical process used is a well-tested technology or is novel in nature and if novel, provide a justification for its use in the Mineral Reserve estimation</i>
			10.4.2.3	Plant Capacity/Production Schedule/Plant Working Schedule
			10.4.2.4	Tailings Specification
			10.4.2.5	Tailings Storage Facility
			10.4.2.6	List of Mill Machineries and Auxiliary Equipment
			<i>i.</i>	<i>Cite the specifications as to size and capacities</i>
			10.4.2.7	Mill Plant Layout
			<i>i.</i>	<i>Provide some sections and elevations</i>
		10.4.3		Mine Support Services
			10.4.3.1	Power Source/Power Plant
			<i>i.</i>	<i>Show if mine power is taken from one or many sources; availability of emergency power, and sharing of project power with the adjacent communities and other users</i>
			10.4.3.2	Mechanical and Electrical Shop
			<i>i.</i>	<i>Mention the availability of mechanical and electrical shops and other special fabrication facilities and shops for maintenance and repairs. Special shops' capabilities may be mentioned.</i>
			10.4.3.3	Assay Laboratory
			<i>i.</i>	<i>Describe the assay laboratory and if there are other laboratories, such as metallurgical laboratory.</i>

			10.4.3.4	Domestic Water Supply
			<i>i.</i>	<i>Discuss in relation to the water needs of the adjacent communities. Indicate if a water treatment facility will be put up and if the mine will procure bottled mineral water</i>
			10.4.3.5	Industrial Water Supply
			<i>i.</i>	<i>Describe the industrial water supply and if it will be treated</i>
			<i>ii.</i>	<i>Discuss the industrial water supply in relation to the needs of other industries, i.e., irrigation, power, flood control, etc.</i>
			10.4.3.6	Availability of Alternative Sources of Mine Support Services
			<i>i.</i>	<i>State the use of special contracted services; outsourced services; packaged products</i>
			10.4.3.7	Logistics
			<i>i.</i>	<i>Discuss the project's inventory control, procurement, physical warehousing, and the role that new technology and the internet may have</i>
	10.5	Legal, Government, Permitting and Licensing, and Statutory Aspects		
			<i>i.</i>	<i>Discuss and confirm that all legal, government, permitting, licensing, and statutory requirements of the Mineral Property and/or Mining Project are in place and that all issues of material significance have been addressed. If there are still some minor deficiencies, state them and how they will be addressed</i>
	10.6	Environmental and Social Aspects		
		10.6.1	Environmental Protection and Management Plan	
			<i>i.</i>	<i>Discuss the environmental protection and management plan for the Mining Project, listing the environmental aspects, impacts, and mitigating measures. If an operating mine, discuss the Issuer's Environmental Protection and Enhancement Program (EPEP) and FMR/DP.</i>
			<i>ii.</i>	<i>The ACP-Mining Engineer shall discuss the role, function, and costs of the major environmental structures such as TSF, drainage, etc.</i>
			<i>iii.</i>	<i>Confirm that the company holding the Mineral Property has addressed the host country's environmental and legal requirements and any mandatory and/or voluntary standards or guidelines to which the Issuer subscribes. This will include identification of the necessary permits that will be required and their status such as Environmental Compliance Certificate (ECC), EPEP, FMR/DP, tree cutting permits, National Water Resources Board Water Permits, foreshore lease agreements, special forest land use agreements, special land use permits, etc., and where not yet obtained, and confirmation that there is a reasonable basis to believe that all permits required for the Mining Project will be obtained in a timely manner.</i>
				<i>Identify any sensitive area that may affect the Mining Project as well as any other environmental factors including Interested and Affected</i>

			iv.	<i>Parties (I&AP) and/or studies that could have a material effect on the likelihood of eventual economic extraction as well as the possible means of mitigation.</i>
			v.	<i>Identify any liabilities, including rehabilitation guarantees that are required of the Mining Project. Describe the rehabilitation liability, including, but not limited to, legislative requirements, assumptions and limitations.</i>
		10.6.2	Mine Safety and Health Plan	
			i.	<i>Discuss the key elements and associated programs and budget</i>
		10.6.3	Employment/Management	
			10.6.3.1	Number, Nationalities (Locals and Expatriates), Key Personnel and Annual Budgeted Payroll
			i.	<i>Prepare a simple description of the organization enumerating only the key mine site positions</i>
			10.6.3.2	Human Resources Policies
			i.	<i>Describe how the pay scale will be structured i.e., based on rank and skills</i>
			ii.	<i>Emphasize the preferential employment hiring given the locals from the neighboring barangays, municipalities and provinces. Competence and availability are the primary criteria for hiring especially for key personnel and staff with special skills.</i>
			10.6.3.3	Table of Organization
			i.	<i>Show a simplified organizational structure only</i>
			10.6.3.4	Availability of Technical and Skilled Labor
			i.	<i>Discuss if there is an adequate pool of technical and skilled labor in the host and neighboring communities with the right skills and provide solutions if there is not enough</i>
			ii.	<i>Discuss the Issuer's training strategy to strengthen the pool of possible local hires</i>
			10.6.3.5	Township/Housing
			i.	<i>State and discuss the Issuer's plan in providing housing facilities and/or fly in-fly out program for some or all of the workforce</i>
			ii.	<i>Discuss the Issuer's transportation plan for the local employees and contractors to and from the Mining Project</i>
		10.6.4	Community Development Plan	
			i.	<i>Discuss the legislated social management programs including content and status, and state their socio-economic contributions to the host and neighboring communities including Indigenous Peoples or Indigenous Cultural Minorities (IP/ICC), if any. For a non-operating mine, discuss the Community Development Plan (CDP). If an operating mine, discuss the Social Management Development Program (SDMP).</i>
			ii.	<i>The ACP-Mining Engineer, with the help of community development company expert(s), should identify the programs, budget, and implementation schedules with the participation of the community</i>

	10.7	Marketing Aspects	
		10.7.1	World Supply and Demand Situation
		10.7.2	Prospective Markets and/or Buyers
		<i>i.</i>	<i>Discuss (1) if a ready market exists for the product(s) and whether contracts for the sale of the product are in place or expected to be readily obtained, and (2) price and volume forecasts and the basis for the forecast</i>
		10.7.3	Product(s) to be Produced and Specifications
		<i>i.</i>	<i>Describe the product(s) to be sold, customer specifications, testing, and acceptance requirements</i>
		10.7.4	Commodity Price and Volume Forecasts
		<i>i.</i>	<i>Provide a summary of the description, source, and confidence of method used to estimate the commodity price/value profiles used for Cut-off Grade calculation, and economic analysis, including applicable taxes, inflation indices, discount rate, and exchange rates for special products</i>
		10.7.5	Sales Contract/Off-take Agreement/Smelter Contract
		<i>i.</i>	<i>Discuss the assumptions made concerning production cost including transportation, treatment, penalties, exchange rates, marketing, and other costs. Allowances should be made to include the penalty for the presence of deleterious elements</i>
		<i>ii.</i>	<i>Discuss royalties and streaming agreements payable both to government and private entities, if any. Streaming agreements can show the strength of confidence from the market and the long-term viability of the Mining Project.</i>
		<i>iii.</i>	<i>Discuss hedging agreements, if any.</i>
	10.8	Material Risks	
		<i>i.</i>	<i>Discuss the risks of material significance, e.g., sovereign, legal, environmental, social license to operate, climatic, seismic, technological, etc.</i>
	10.9	Financial Aspects	
		<i>i.</i>	<i>This aspect requires very close coordination with the Issuer's finance team. One member of the team of the ACP-Mining Engineer must be a finance person familiar with project finance and development.</i>
		<i>ii.</i>	<i>The Issuer may have the financial model tailored to what it wants highlighted or as required by the Issuer's finance/accounting structure.</i>
		10.9.1	Total Project Cost Estimates and Assumptions
			10.9.1.1 Engineering Study Cost
		<i>i.</i>	<i>State the engineering study costs. This includes all engineering studies, PFS, FS or LoMP, reports, special studies, lab works, scientific papers, field tests, and performance of special equipment commissioned by the Issuer.</i>
			10.9.1.2 Exploration Cost
		<i>i.</i>	<i>State the exploration costs. This covers the cost of the exploration activities relevant to the investment analysis.</i>
		<i>ii.</i>	<i>This may include planned exploration budget during the development and production years of the mine not captured in the actual exploration cost.</i>
			10.9.1.3 Development Cost
		<i>i.</i>	<i>State the project development costs</i>

			10.9.1.4	Pre-Operating Overhead Cost
			<i>i.</i>	<i>State and describe pre-operating overhead costs</i>
			10.9.1.5	Cost of Capital Equipment and Machinery
			<i>i.</i>	<i>State the cost of capital equipment and machinery. The list must indicate the individual costs for major equipment. Minor units may be lumped together but must be identified properly</i>
			10.9.1.6	Cost of Allied Mine Facilities and Infrastructures
			<i>i.</i>	<i>Show a list of individual costs for major infrastructures</i>
			10.9.1.7	Cost of the Environmental Structures, Facilities, and Equipment
			<i>i.</i>	<i>Provide a list with individual costs for major equipment, including complementary or auxiliary facilities.</i>
			10.9.1.8	Interest Cost during Construction
			10.9.1.9	Working Capital
			10.9.1.10	Contingencies
		10.9.2	List of Capital Equipment and Infrastructures	
		<i>i.</i>	<i>Provide a list of the mining and milling equipment used for the project (reference may be made to the previous sections); include other items outside of the mining and milling operations which are to be capitalized</i>	
		<i>ii.</i>	<i>Review the whole development cost for items to be capitalized</i>	
		10.9.3	Financial Plans/Sources of Funds	
		10.9.4	Production Cost Estimates and Assumptions	
			10.9.4.1	Mining Cost
			<i>i.</i>	<i>State the direct production costs of all the units of operation within the mining activity</i>
			10.9.4.2	Milling Cost
			<i>i.</i>	<i>State the direct production costs of all the units of operation within the milling and processing activity</i>
			10.9.4.3	Marketing Cost
			<i>i.</i>	<i>State the costs of all the units of operation in the marketing activity including transportation costs from an assumed starting point</i>
			10.9.4.4	Mine Overhead Cost
			<i>i.</i>	<i>State the mine-site overhead costs. These are generally non-production and/or indirect production costs. Mining Project with joint venture partners and/or Issuers with several operating mines must determine these costs properly. This must be defined accurately in relation to Sec. 10.9.4.10 (Head Office Overhead Costs). Government is particularly interested with these cost items. Note that different Issuers/mining companies have different cost structure.</i>
			10.9.4.5	Environmental Cost
			<i>i.</i>	<i>State the environmental costs, i.e., EPEP plus other costs outside of the EPEP</i>
			10.9.4.6	Community Development Cost

			<i>i.</i>	<i>State the community development costs as provided in either CDP or SDMP including royalty payment to IP/ICC, if any</i>
			10.9.4.7	Excise Tax
			<i>i.</i>	<i>State the current applicable rates</i>
			10.9.4.8	Business Tax
			<i>i.</i>	<i>State the current applicable rate(s); The ACP must check rates with the project's local government(s).</i>
			10.9.4.9	Mineral Reservation Tax
			<i>i.</i>	<i>Use current applicable rate if Mining Project is inside a Mineral Reservation</i>
			10.9.4.10	Head Office Overhead Cost
			<i>i.</i>	<i>State the head office overhead costs. This must be defined accurately in relation to Sec. 10.9.4.4 (Mine Overhead Cost). Note that different Issuers/mining companies have different cost structure.</i>
			10.9.4.11	Royalties and Streaming Agreements
			<i>i.</i>	<i>State expenses incurred due to royalty and streaming agreements, if any. This is normally levied as a percentage of the gross revenue but a different form or formula may be used for the computation</i>
			10.9.4.12	Income Tax
			<i>i.</i>	<i>State the current applicable rates</i>
		10.9.5		Government Financial Incentives
			10.9.5.1	Board of Investments
			<i>i.</i>	<i>Specify the Board of Investments (BOI) incentives and the impact of these incentives on the Mining Project</i>
			10.9.5.2	Philippine Economic Zone Authority
			<i>i.</i>	<i>Specify the Philippine Economic Zone Authority (PEZA) incentives and impact on the Mining Project</i>
		10.9.6		Basis of Revenue Calculation
			10.9.6.1	Main Valuable Product(s) and By-Product(s) with their Specifications
			<i>i.</i>	<i>Provide the customer specifications of the product(s) and by-product(s) to be sold</i>
			<i>ii.</i>	<i>Describe fully the prices especially when there are several by-products; some may be derived from the plant and some may be credits from the smelters</i>
			10.9.6.2	Metallurgical Recovery
			10.9.6.3	Selling Price
			<i>i.</i>	<i>State the estimated selling price of the product(s) and by-product(s).</i>
			<i>ii.</i>	<i>A Mining Project may have two corporate entities involved, one selling ore(s) to the other which owns the mill / processing plant. Care should be given how to treat these revenues, costs and taxes involved.</i>

			10.9.6.4	Foreign Exchange Rate
			<i>i.</i>	<i>Specify the applicable currency and exchange rate. Refer to Section 1.7.</i>
			10.9.6.5	Smelter/Freight/Treatment Charges
			<i>i.</i>	<i>The ACP-Metallurgical Engineer should be consulted on this matter.</i>
			10.9.6.6	Bonuses and Penalties
			<i>i.</i>	<i>The ACP-Metallurgical Engineer should be consulted on this matter.</i>
			10.9.6.7	Other Receivables and Payables
			<i>i.</i>	<i>Indicate from whom or what entity the receivables/payables are from</i>
		10.9.7	Pro-forma Financial Statements	
			<i>i.</i>	<i>These must be prepared by the ACP-Mining Engineer in coordination with the company's finance department using figures derived from the PFS, FS or LoMP. These financial statements are of the Issuer which holds the mining rights of the Mineral Property and who shall benefit from the Mining Project and be responsible for the costs and promises to the different shareholders and/or investors</i>
			10.9.7.1	Pro-forma Balance Sheet
			10.9.7.2	Pro-forma Profit and Loss
			10.9.7.3	Pro-forma Cash Flow
		10.9.8	Profitability Analyses	
			10.9.8.1	Break-even Analyses
			<i>i.</i>	<i>A break-even state may be reached based on elements like grade, recovery and Mineral Reserves, production costs, production level, Capital Expenditures (CAPEX), etc. Discuss only what is most relevant and meaningful to the Mining Project.</i>
			10.9.8.2	Sensitivity Analyses
			<i>i.</i>	<i>This measures the rate of change in project returns when there are changes in elements like commodity/metal prices, metallurgical recovery, Mineral Reserves, production rate, project cost (CAPEX), Operating Expenses (OPEX), etc.</i>
			10.9.8.3	Investment Analysis
			<i>i.</i>	<i>Discuss the profitability of the Mineral Project using investment analysis metrics such as (1) Return on Investment (ROI), (2) Net Present Value (NPV), (3) Internal Rate of Return (IRR), (4) Payback Period, etc.</i>
	10.10	Project Schedule and Implementation		
			<i>i.</i>	<i>Discuss how the project development program will be implemented, the total project cost, fund release dates, and whether an EPCM or an EPC contract will be availed of</i>
			<i>ii.</i>	<i>State (1) if the Issuer will undertake all or some of the design and construction activities, (2) if local and/or foreign contractors will be utilized, and (3) whether the Issuer will participate in the procurement process</i>
			<i>iii.</i>	<i>Provide the construction schedule, e.g., Gantt chart</i>

11.	ESTIMATION OF MINERAL RESERVES		
	<i>i.</i>	<i>Provide an overview of the estimation of Mineral Reserves</i>	
	11.1	Data Verification and Validation	
		<i>i.</i>	<i>The ACP-Mining Engineer shall conduct a due diligence on the Mineral Resources estimation report, particularly on the survey of the drill holes, the block model and the Cut-off Grade used as well as the Issuer's project information, i.e., costs and estimates, schedule, assumptions, handling and depository of data</i>
	11.2	Mineral Reserves Estimation Methodology	
		<i>i.</i>	<i>Provide an overview on the Mineral Reserves estimation methodology. If estimation is computer-assisted, list the major software and software versions used such as SURPAC, VULCAN, DATAMINE, and Whittle.</i>
		<i>ii.</i>	<i>Describe fully the assumptions and parameters used, e.g., mining and waste costs, processing cost</i>
	11.3	Mineral Reserves Categories	
		<i>i.</i>	<i>State the criteria and methods used as the basis for the classification of the Mineral Reserves into varying confidence categories, which should be based on the Mineral Resource categories, and include consideration of the confidence in all the Modifying Factors.</i>
		<i>ii.</i>	<i>When appropriate, state the relative accuracy and confidence level in the Mineral Reserves estimate using an approach or procedure deemed appropriate by the ACP-Mining Engineer. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the Mineral Resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate. The statement should specify whether it relates to global or local estimates, and, if local, state the relative tonnages, which should be relevant to technical and economic evaluation. Documentation shall include assumptions made and the procedures used. These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</i>
	11.4	Mineral Reserves Estimates	
		<i>i.</i>	<i>Tabulate the Proved and Probable Mineral Reserves stating the Cut-off Grade(s)/quality(ies) of the primary product and by-product(s) (if any) per source, i.e., surface and/or underground mine, residue stockpile, remnants, dumps, tailings, pillars or other sources</i>
		<i>ii.</i>	<i>State and explain the basis of the Cut-off Grade(s) or quality parameters applied, including Metal Equivalents, if relevant</i>
		<i>iii.</i>	<i>Indicate the proportion of Probable Mineral Reserves, which have been derived from Measured Mineral Resources (if any), including the reason(s) therefor</i>
		<i>iv.</i>	<i>State clearly the inclusion or exclusion of Mineral Resources in the estimation for the Mineral Reserves</i>
		<i>v.</i>	<i>If there is a previous Mineral Reserves estimate, provide a comparison with the current Mineral Reserves estimates, with an explanation of the reason(s) for differences that have material significance. Provide a comment on any historical trends, e.g., global bias</i>

		vi.	<i>Discuss the basis for the Mineral Reserves estimate owned by the Issuer. If the Issuer does not have full ownership of the Mineral Reserves, indicate the attributable percentage relevant to the Issuer of the Technical Report</i>
12.	DISCUSSION AND CONCLUSIONS		
	i.		<i>Provide a synthesis of all the data and information provided in the Technical Report</i>
	ii.		<i>Discuss the adequacy of data, overall data integrity, and areas of uncertainty</i>
	iii.		<i>State the overall conclusions by the ACP-Mining Engineer(s) as guided by the purpose and scope of work of this Technical Report</i>
	iv.		<i>The ACP-Mining Engineer(s) must discuss whether the Technical Report met the purpose and scope of work set forth and whether it is PMRC 2020 compliant, including a categorical statement that the Mining Project is economically viable. If it is not economically viable, state the reason why. Refer to the Modifying Factor(s) which played critically or substantially to the decision to pursue or not-to-pursue the Mining Project.</i>
13.	RECOMMENDATIONS		
	i.		<i>Based on the above discussion and conclusions (under Sec 12), present a list of recommendations to guide the Issuer on the course of action to improve profitability, i.e., measures resulting to savings and better efficiency.</i>
	ii.		<i>If the Mining Project failed to hurdle the viability criteria or is marginal, provide recommendation(s) to the Issuer to move the Mining Project to economic viability.</i>
14.	REFERENCES		
	i.		<i>List of references cited in the narrative, whether published or unpublished</i>
	ii.		<i>In the absence of a preferred format for citing references, one may use the American Psychological Association (APA) format.</i>
APPENDICES			
	1	Comments on PMRC 2020 Table 1 Assessment and Reporting Criteria	
	i.		<i>Mandatory comprehensive listing of PMRC 2020 Table 1 Check List of Assessment and Reporting Criteria with corresponding ACP's Comment</i>
	2.	List of Acronyms	
	i.		<i>Mandatory comprehensive listing of all acronyms used in the Technical Report</i>
	3 Etc.	Other Appendices if needed	
	i.		<i>Map(s) or plates (larger than A4 sized format)</i>
	ii.		<i>Sections and level plans (larger than A4 sized format)</i>
	iii.		<i>Other relevant data</i>

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TR-FORM 3			
OUTLINE OF TECHNICAL REPORT FOR A METALLURGICAL ENGINEERING STUDY AND ASSESSMENT ON A MINERAL DEPOSIT			
	TITLE PAGE		
		<i>i.</i>	<i>State the title of the Technical Report and include the location of the Mineral Property, mining rights coverage, name and professional designation of Accredited Competent Person(s) (ACP(s)), Data Cut-off Date and Report Date of the Technical Report, and name of Issuer</i>
ACCREDITED COMPETENT PERSON'S CONSENT FORM AND CONSENT STATEMENT, AND CERTIFICATES			
		<i>i.</i>	<i>Attach ACP's Consent Form and Consent Statement as prescribed by Appendix 4 of the PMRC 2020</i>
		<i>ii.</i>	<i>Attach scanned copy of valid ACP Identification Card or Certificate of Accreditation of ACP(s)</i>
		<i>iii.</i>	<i>Attach scanned copy of valid PRC Professional Identification Card (PIC) of ACP(s)</i>
		<i>iv.</i>	<i>Attach scanned copy of valid Professional Tax Receipt</i>
		<i>v.</i>	<i>Have the documents mentioned in items i to iv notarized including Acknowledgment page showing the signature of ACP(s) and date of signing</i>
EXECUTIVE SUMMARY			
		<i>i.</i>	<i>Briefly summarize important information in the Technical Report, its purpose and scope of work, including Mineral Property description and ownership, geology and mineralization related to the metallurgical engineering study and assessment, and the ACP-Metallurgical Engineer(s)' conclusions and recommendations. The Executive Summary should have sufficient details to allow the reader to understand the essentials of the Technical Report.</i>
		<i>ii.</i>	<i>State if the Technical Report is PMRC 2020-compliant and if the objectives of the report have been met</i>
TABLE OF CONTENTS			
		<i>i.</i>	<i>List the contents of the Technical Report including figures, tables, photographs, and appendices referred in the report. All figures, tables, photographs, and appendices must be cited in the narrative.</i>
1. INTRODUCTION			
	1.1	Purpose and Scope of Work	
		<i>i.</i>	<i>State who commissioned the Technical Report and for whom it was prepared, whether it was intended as a complete or partial evaluation or for other purposes, the work conducted, and Data Cut-off Date of the Technical Report</i>
		<i>ii.</i>	<i>Briefly describe the purpose and scope of work (i.e., whether Scoping, Pre-Feasibility Study (PFS), or Feasibility Study (FS), Life-of-Mine Plan (LoMP) for ongoing Mining Operations or decommissioning)</i>
		<i>iii.</i>	<i>Provide the details of the personal inspection on the Mineral Property by each ACP or the reason why a personal inspection was not completed</i>

		iv.	<i>State if the Technical Report is PMRC 2020-compliant and if the objectives of the report have been met</i>
1.2	Country Profile (Optional for Mineral Property in the Philippines)		
		i.	<i>Provide brief information relating to the project host country pertinent to the Mineral Property, including relevant applicable legislation, environmental and social context, etc. This is a high-level assessment of relevant technical, environmental, social, economic, political, and other key risks.</i>
1.3	Location of the Mineral Property and Accessibility		
		i.	<i>Describe the location and accessibility of the Mineral Property (country, province(s), municipality(ies), and closest town/city, coordinate systems, mountain ranges, etc.)</i>
		ii.	<i>Discuss the modes and ease of access to the Mineral Property, the proximity to population center(s) and from the country capital</i>
		iii.	<i>Attach the relevant location map</i>
1.4	Property Description		
		i.	<i>Provide a general description of the Mineral Property</i>
1.5	Qualifications of Accredited Competent Person(s), Key Technical Staff, and Other Experts		
		i.	<i>Describe briefly the competence and scope of work of each ACP(s), key technical staff, and experts in relation to the Technical Report</i>
1.6	Disclaimer		
		i.	<i>If ACP(s) relied on the report, opinion, statement of a legal, environmental, social, governance expert, etc., who is not a co-author of this Technical Report, the ACP(s) may include a disclaimer of responsibility on such information in the Technical Report</i>
1.7	Units of Measure, Currency, and Foreign Exchange Rates		
1.8	Previous Works		
		i.	<i>Arrange chronologically and briefly describe significant previous works on the metallurgical study and assessment of the Mineral Project</i>
		ii.	<i>Indicate sources of information (references) by citing published/unpublished report(s) or personal communication</i>
2.	TENEMENT AND MINERAL RIGHTS		
		i.	<i>Subsections and corresponding guidance notes are exactly the same as in Section 2 of the TR-FORM 1.</i>
3.	GEOGRAPHICAL AND ENVIRONMENTAL FEATURES		
3.1	Physiography, Climate, and Vegetation		
		i.	<i>Describe the topography, physiography, drainage and vegetation, the climate, known associated climatic and seismic risks and the length of the operating period and to the extent relevant to the Mineral Property</i>
		ii.	<i>Attach the relevant map(s) if appropriate</i>
3.2	Land Use and Infrastructure		
		i.	<i>Describe the current land use</i>
		ii.	<i>Discuss the sufficiency of surface rights and access for mineral processing operations, including the availability and sources of power, water, and potential mining infrastructure such as tailings storage areas, waste disposal areas, heap</i>

		<i>leach pad areas, processing plant sites, etc. (noting any conditions that may adversely affect possible exploration/mining activities)</i>
3.3	Environmental Features	
	<i>i.</i>	<i>Describe the environmental features within and adjoining the Mineral Property including those that may have an adverse impact to mineral processing operations</i>
4.	SUSTAINABILITY CONSIDERATIONS	
	<i>i.</i>	<i>This section and corresponding guidance notes are exactly the same as in Section 5 of TR-FORM 1.</i>
	<i>ii.</i>	<i>Whenever necessary, the ACP-Metallurgical Engineer should place brief comments of significance in the relevant subsection(s) from the metallurgical point of view.</i>
5.	METALLURGY	
5.1	Introduction	
	<i>i.</i>	<i>State in brief terms the overall philosophy of the mineral processing and metallurgical test works</i>
	<i>ii.</i>	<i>State the status or progress of the mineral processing and metallurgical test works</i>
5.2	Sampling and Sample Collection Program	
	<i>i.</i>	<i>To the extent known, state the degree to which the test samples are representative of the various types and styles of mineralization and the Mineral Deposit as a whole</i>
	<i>ii.</i>	<i>State the sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samples</i>
5.3	Mineralogical Characterization Studies	
	<i>i.</i>	<i>Provide mineralogical and mineragraphic analyses; identify main valuable and gangue minerals, including deleterious elements. Attach relevant geological section(s), if any.</i>
	<i>ii.</i>	<i>Discuss mineral liberation analysis, if any</i>
5.4	Mineral and Metallurgical Test Programs and Procedures	
	<i>i.</i>	<i>Discuss the appropriateness of tests to mineralization type</i>
	<i>ii.</i>	<i>Discuss programs and procedures for comminution and grindability tests</i>
	<i>iii.</i>	<i>Discuss programs and procedures for gravity, leaching, flotation, settling tests, etc.</i>
	<i>iv.</i>	<i>Discuss variability tests</i>
5.5	Metallurgical Test Results and Determination of Capacities, Recoveries, Product Specification, and Process Flow	
	<i>i.</i>	<i>Discuss the calculation and estimation of plant capacity</i>
	<i>ii.</i>	<i>Discuss recovery projection and basis for assumptions</i>
	<i>iii.</i>	<i>State the basis for assumptions or predictions regarding metallurgical amenability and any preliminary mineralogical test work (i.e., mineral liberation analysis, mineralogical studies, X-ray diffraction analyses, etc.) that have been conducted</i>
	<i>iv.</i>	<i>Describe the product quality and deleterious elements and assumptions or allowances made for deleterious elements</i>
	<i>v.</i>	<i>Discuss the bulk-sample or pilot-scale test work</i>

		<i>vi.</i>	<i>Disclose whether the metallurgical process used is a well-tested technology or novel in nature, i.e., pioneering but not yet tested on a commercial scale, and if novel, provide a justification of its use in the Mineral Reserve estimation.</i>
	5.6	Development of Process Response Models	
		<i>i.</i>	<i>Discuss how the recovery model was derived</i>
	5.7	Recommended Future Test Work	
		<i>i.</i>	<i>Discuss recommended future test work, if any</i>
6.	MINERAL PROCESSING		
		<i>i.</i>	<i>Discuss available information test or operating results relating to the recoverability of the valuable component or commodity and the amenability of the mineralization to the proposed processing method</i>
	6.1	Process Design Criteria	
		<i>i.</i>	<i>Provide the design basis including a detailed flow sheet and a mass balance, especially for multi-product operations from which the saleable materials are priced for different chemical and physical characteristics</i>
	6.2	Proposed Flowsheets and Process Routes	
		<i>i.</i>	<i>Provide a description or flowsheet of any current or proposed process plant. For existing operating plants, identify who did the process flow design, description of the process from run-of-mine ore to shipment of final product, tailings storage facility and waste-water discharge treatment plant, if any. Provide an overall flowsheet of the process</i>
		<i>ii.</i>	<i>Discuss processing method(s), equipment, plant capacity, efficiencies, and human resource requirements, if applicable</i> <ul style="list-style-type: none"> • <i>Comminution</i> • <i>Gravity/Leaching/Flotation</i> • <i>Refinery</i> • <i>Pyrometallurgy</i> • <i>Electrometallurgy</i> • <i>Tails Handling</i> • <i>Reagents</i> • <i>Water</i> • <i>Air and other utilities</i> • <i>Others (control system, metallurgical accounting)</i>
		<i>iii.</i>	<i>Illustrate the process plant general arrangement</i>
	6.3	Material and Energy balance	
		<i>i</i>	<i>Estimate requirements for energy, water, and process materials. Provide material flow diagram.</i>
7.	PROCESS PLANT DESIGN, COST ESTIMATES, AND IMPLEMENTATION SCHEDULE		
	7.1	Key Design Parameters	
		<i>i</i>	<i>Discuss key design parameters such as throughput, head grade, recovery</i>
	7.2	Plant Capacity and Production Schedule	
		<i>i</i>	<i>Provide a Mine Production Plan (MPP) or LoMP) including:</i> <ul style="list-style-type: none"> • <i>Throughput</i>

			<ul style="list-style-type: none"> • <i>Feed grade</i> • <i>Final product quantity and quality</i> • <i>Recovery</i> • <i>Mill availability and utilization</i>
	7.3	Plant Layout and Operations Description	
		<i>i</i>	<p><i>Describe the various sections of the processing plant if applicable:</i></p> <ul style="list-style-type: none"> • <i>primary/secondary/tertiary crushing,</i> • <i>stockpiles and storage bins</i> • <i>screening plant</i> • <i>conveying systems</i> • <i>washing plant</i> • <i>grinding circuit and classification</i> • <i>gravity circuit</i> • <i>conditioning</i> • <i>flotation</i> • <i>magnetic separation</i> • <i>leaching</i> • <i>roasting</i> • <i>calcining</i> • <i>elution and electrowinning</i> • <i>carbon regeneration</i> • <i>gold room</i> • <i>filtration</i> • <i>concentrate and tailings thickener</i> • <i>detoxification</i> • <i>pumping systems</i> • <i>waste-water treatment plant</i> • <i>reagent mixing and handling, lime slaking</i> • <i>metallurgical and assay laboratory</i> • <i>and other sections pertinent to the process</i>
	7.4	Product and By-product Specifications	
		<i>i.</i>	<i>Discuss product and by-product specifications that may impact marketability</i>
		<i>ii.</i>	<i>Provide annual quantity and grade of products shipped or sold based on MPP or LoMP</i>
	7.5	List of Capital Equipment and Works.	
		<i>i.</i>	<i>Provide a list of equipment, sizes, and motors installed</i>
	7.6	Project Infrastructures Layout	
		<i>i.</i>	<i>Provide a summary of infrastructure and logistics requirements for the Mining Project, which could include roads, rails, port facilities, dams, dumps, stockpiles, leach pads, tailing storage facilities, power, and pipelines as applicable</i>

		7.6.1	Mineral Processing Plant Layout
		<i>i.</i>	<p>Provide maps showing locations of mineral processing facilities including:</p> <ul style="list-style-type: none"> • Site layout • Stockpiles and storage bins • Water supply system • Air supply • Power and electrical • Communication • Fuel storage • Shops, offices, warehouses, security • Roads
		7.6.2	Tailings Storage Facility
		<i>i.</i>	<p>Describe:</p> <ul style="list-style-type: none"> • Tailings Storage Facility (TSF)'s requirements and plans for waste and tailings disposal, site monitoring, and water management, both during operations and plant decommissioning • Type of dam structure, elevation, and footprint • Designed and remaining capacity • Current tailings and end of mine life elevation • Equipment used (i.e., Pumps, pontoon, etc.)
		7.6.3	Port Facility
		<i>i.</i>	<p>Describe:</p> <ul style="list-style-type: none"> • Location • Distance from mine site • Storage capacity • Vessel capacity
		7.6.4	Power Source(s)
		<i>i.</i>	<p>Describe:</p> <ul style="list-style-type: none"> • Sources of power (grid, gensets, etc.) • Power offtake and genset rating • Electricity price • Cost of power generation, if gensets
		7.6.5	Water Source(s)
		<i>i.</i>	<p>Describe:</p> <ul style="list-style-type: none"> • Raw water – sources, uses, quantity, quality, and treatment • Process water – sources, uses, quantity, and treatment • Potable water – sources, uses, quantity, quality, and treatment • Gland water – sources, quantity, quality, and treatment • Fire water – sources, quantity, fire water system, fire hydrant system
		7.6.6	Road/Rail Facility
		<i>i.</i>	<p>Describe:</p> <p>Road network map for supplies and concentrate transport</p> <p>Manpower (drivers, maintenance, etc.)</p>

	7.7	Capital Cost Estimates	
		<i>i</i>	<i>Estimate the capital cost for the processing plant</i>
		<i>ii</i>	<i>List the capital expenditures for existing operating plants.</i>
	7.8	Sustaining Capital Cost Estimates	
		<i>i</i>	<i>List all sustaining capital cost estimates during the mine's lifespan</i>
	7.9	Operating Cost Estimate	
		<i>i</i>	<i>Provide estimates of operating cost using the appropriate currency and currency per tonne of ore milled and per unit weight of product, including power, reagents and consumables, and labor</i>
		<i>ii</i>	<p><i>State assumptions made concerning production cost including transportation, treatment, penalties, exchange rates, marketing, and other costs</i></p> <ul style="list-style-type: none"> • <i>Allowances should be made for the content of deleterious elements and the cost of penalties</i> • <i>Allowances should be made for royalties and streaming agreements payable, both to Government and private entities</i> • <i>Ownership, type, extent and condition of plant and equipment that is significant to the existing operation(s)</i> • <i>Environmental, social, and labor costs</i>
		<i>iii</i>	<i>Provide a detailed historical breakdown of all costs to produce the final product per major section of the plant.</i>
	7.10	Specifications, Standards, and Codes	
		<i>i</i>	<i>State civil, mechanical, electrical, and structural codes used in the design</i>
8.	MARKET STUDY AND CONTRACTS		
	8.1	Marketing Study	
		<i>i.</i>	<i>Provide a summary of reasonable available information concerning the markets for the issuer's production, including the nature and material terms of any agency relationships. Discuss the nature of any studies or analyses completed by the issuer including any relevant market studies, commodity price projections, product valuations, market entry strategies or product specifications requirement.</i>
		<i>ii.</i>	<i>Relate these studies and the results to the assumptions used in the Technical Report</i>
		<i>iii.</i>	<i>Identify any contract material to the issuer, including mining, concentrating, smelting, refining, transportation, handling, sales and hedging, and forward sales contracts or arrangements. State which contracts are in place, and discuss whether the terms, rates or charges are within industry norms</i>
		<i>iv.</i>	<i>State products to be sold, customer specifications, testing, and acceptance requirements</i>
	8.2	Commodity Prices	
		<i>i.</i>	<i>State price and volume forecasts and the bases for the forecast</i>

		<i>ii.</i>	<i>Provide the summary description, source and confidence of method used to estimate the commodity price</i>
		<i>iii.</i>	<i>Discuss the existence of a ready market for the product and whether contracts for the sale of the product are in place or expected to be readily obtained</i>
8.3	Sales Contracts		
		<i>i.</i>	<i>State whether the company/Issuer has signed any sales contracts with product buyer(s)</i>
9.	RISK ANALYSIS		
		<i>i.</i>	<i>Assess available information on environmental, permit, and social or community factors and other risks to the processing plant, as well as actions that will be taken to mitigate and/or manage the identified risks.</i>
9.1	Environmental		
		<i>i.</i>	<i>Discuss briefly the potential environmental issues that could materially impact the company/issuer's ability to operate the processing plant.</i>
9.2	Tailings Storage Facility		
		<i>i.</i>	<i>Discuss briefly the potential risks associated with the TSF and its design</i>
9.3	Water Management		
		<i>i.</i>	<i>Discuss briefly the potential risks associated with water sources, treatment, discharge, recycling, etc.</i>
9.4	Permits		
		<i>i.</i>	<i>Discuss briefly the potential permit risks associated with the processing plant and the TSF</i>
9.5	Social and Community		
		<i>i.</i>	<i>Discuss any potential social or community-related risks associated with the processing plant</i>
10.	DISCUSSION AND CONCLUSIONS		
		<i>i.</i>	<i>Provide a synthesis of all the data and information. Summarize the relevant results and interpretations of the information and analysis being reported on. Discuss any significant risks and uncertainties that could be expected to affect the reliability or confidence in the metallurgical inputs provided for the reserve estimation. Discuss any reasonably foreseeable impacts of these risks and uncertainties on the project's potential economic viability or continued viability</i>
		<i>ii.</i>	<i>Discuss the adequacy of data, overall data integrity, and areas of uncertainty</i>
		<i>iii.</i>	<i>State the overall conclusions by the ACP-Metallurgical Engineer(s) as guided by the purpose and scope of work of this Technical Report</i>
		<i>iv.</i>	<i>The ACP-Metallurgical Engineer(s) must discuss whether the Technical Report met the objectives set forth and whether it is PMRC 2020 compliant</i>
11.	RECOMMENDATIONS		
		<i>i.</i>	<i>Based on the above discussion and conclusions (under Sec. 8), present a list of recommendations to guide the Issuer on the course of action to take.</i>
		<i>ii.</i>	<i>Provide particulars of recommended work programs and a breakdown of costs for each phase. If successive phases of work are recommended, each phase must culminate in a decision point. The recommendations must not apply to more than two phases of work. The recommendations must</i>

		<i>state whether advancing to a subsequent phase is contingent on positive results in the preceding phase</i>
12.	REFERENCES	
	<i>i.</i>	<i>List of references cited in the narrative, whether published or unpublished</i>
	<i>ii.</i>	<i>In the absence of a preferred format for citing references, one may use the American Psychological Association (APA) format.</i>
	APPENDICES	
1	Comments on PMRC 2020 Table 1 Assessment and Reporting Criteria	
	<i>i.</i>	<i>Mandatory comprehensive listing of PMRC 2020 Table 1 Check List of Assessment and Reporting Criteria with corresponding ACP's Comment</i>
2	List of Acronyms	
	<i>i.</i>	<i>Mandatory comprehensive listing of all acronyms used in the Technical Report</i>
3. Etc.	Other Appendices	
	<i>i.</i>	<i>Process Design Criteria worksheet</i>
	<i>ii.</i>	<i>Process Flow Diagram</i>
	<i>iii.</i>	<i>General Facilities and Process Plant Layout</i>
	<i>iv</i>	<i>Piping and Instrumentation Diagram</i>
	<i>v</i>	<i>Mass and/or Energy Balance</i>
	<i>vi</i>	<i>Major Equipment List</i>
	<i>vii</i>	<i>Capital and Sustaining Capital Estimate worksheet</i>
	<i>vii</i>	<i>Operating Cost Estimate worksheet</i>

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995 **ANNEX II**

996
997 *[Letterhead of Accredited Competent Person or Accredited Competent Person’s employer]*

998
999 **ACCREDITED COMPETENT PERSON’S CONSENT FORM AND CONSENT STATEMENT,**
1000 **AND CERTIFICATES**

1001
1002 **Accredited Competent Person’s Consent Form**

1003
1004 Pursuant to the requirements under the prevailing The Philippine Stock Exchange, Inc.’s
1005 Consolidated Listing and Disclosure Rules, as amended, and Clause 10 of the Philippine
1006 Mineral Reporting Code 2020 Edition (the “Consent Statement”)

1007
1008 Public Report or Technical Report Name (or Heading) to be Publicly Released: *[Insert name]*

1009
1010 Name of Company releasing the Public Report or Technical Report: *[Insert name]*

1011
1012 Name of Mineral Deposit to which the Public Report or Technical Report refers to: *[Insert*
1013 *name]*

1014
1015 Data Cut-off Date: *[Insert date]*

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1017 Report Date: *[Insert date]*

Consent Statement

I, [insert full name], confirm that I am the Accredited Competent Person for the Public Report or Technical Report, and that:

- I am a *[insert profession, i.e., Geologist, Mining Engineer and/or Metallurgical Engineer]* residing at *[insert address]*.
- I have read and understood the requirements of the 2020 Edition of the Philippine Mineral Reporting Code for Reporting of Exploration Results, Mineral Resources and Mineral Reserves (PMRC 2020 Edition).
- I certify that the Public Report or Technical Report has been prepared in accordance with the PMRC 2020 Edition and its Implementing Rules and Regulations.
- I am an Accredited Competent Person-Geologist *[or Accredited Competent Person-Metallurgical Engineer or Accredited Competent Person-Mining Engineer]* as defined by the PMRC 2020 Edition, having a minimum of five years relevant experience in the style of mineralization and type of Mineral Deposit *[or in the method of metallurgical processing of the mineral commodity (i.e., for ACP-Metallurgical Engineer) or economic assessment pertaining to the mining method to be applied and Mineral Reserve estimation (i.e., for ACP-Mining Engineer)]* described in the Public Report or Technical Report, and to the activity for which I am accepting responsibility.
- I am a Member (or Fellow) of the Philippine Society of Mining Engineers *[or the Geological Society of the Philippines or the Society of Metallurgical Engineers of the Philippines or a 'Recognized Professional Organization' (RPO) included in a list promulgated from time to time by the Philippine Society of Mining Engineers, Geological Society of the Philippines, and the Society of Metallurgical Engineers of the Philippines through the Philippines Mineral Reporting Code Committee (PMRCC), subject to applicable laws and regulations]*.
- *[State relationship of the ACP to the reporting company (e.g., consultant, whether independent or not independent, employee or holder of a corporate position), and number of shares, options and/or warrants that the ACP beneficially own, if any, in the Issuer's shares as certified by the Issuer's Corporate Secretary, whether the ACP is a holder of tenement rights, whether the ACP has landlord-lessee relationship of land and/or infrastructure within the Mineral Property or ACP has other employment-related relationship which may have a bearing on the integrity of the Public Report or Technical Report]*.
- I assume full responsibility for the following sections/portions *[State the sections/portions]* (or the whole) of the Public Report or Technical Report which I have prepared/co-prepared or have been prepared under my supervision.
- I have reviewed the Public Report or Technical Report to which this Consent Statement

1065 applies.

1066

1067 • I have disclosed to the reporting company the full nature of the relationship between
1068 myself and the company, including any issues that could be perceived by investors as a
1069 conflict of interest.

1070

1071 • I verify that the Public Report or Technical Report is based on, and fairly and accurately
1072 reflect in the form and context in which it appears, the information in my supporting
1073 documentation relating to Exploration Results, Exploration Targets, Mineral Resources
1074 and/or Mineral Reserves *[select as appropriate]*; and to the best of my knowledge, all
1075 technical information that are required to make this Public Report or Technical Report not
1076 misleading, false, inaccurate or incorrect, have been included.

1077

1078 • I have conducted Data Verification and Data Validation of the data disclosed in the Public
1079 Report or Technical Report.

1080

1081 • I have attached to this Consent Statement copies of my relevant Professional Regulation
1082 Commission (PRC) professional identification card (PIC), Accredited Competent Person
1083 identification card (or accreditation certificate), and Professional Tax Receipt.

1084

1085 **Consent**

1086

1087 I consent to the release and public disclosure of the Public Report or Technical Report and
1088 this Consent Statement by the Board of Directors of: *[insert reporting company name]* for the
1089 purpose of *[State purpose(s)]*, etc.

[Signature]

[Name]

Accredited Competent Person

Date

PRC PIC Registration No. _____ / Valid
Until *[Date]*

Professional Representative Organization (or
RPO Affiliation) of the ACP

ACP ID / Certificate No. _____ /
Valid Until *[Date]*

Professional Tax Receipt No. _____
/Issued at *[Place]* on *[Date]*

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ACKNOWLEDGEMENT

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REPUBLIC OF THE PHILIPPINES)
CITY OF _____) SS.

BEFORE ME, this _____ day of _____, 20__, personally appeared before me _____ with PRC Professional Identification Card with Registration No. _____ valid until _____, known to me to be the same person who executed this instrument which he/she acknowledged before me as his/her free and voluntary act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal on the date and at the place first above written.

Doc. No. _____;
Page No. _____;
Book No. _____;
Series of _____.

NOTARY PUBLIC

[Append here the scanned copies of the ACP's valid PRC Professional Identity Card (PIC), ACP identification card (or accreditation certificate) and Professional Tax Receipt]

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ANNEX III

APPENDIX 1 - OUTLINE OF COMMENTS ON PMRC 2020 TABLE 1 ASSESSMENT AND REPORTING CRITERIA

					TR-FORM 01	TR-FORM 01	TR-FORM 02	TR-FORM 03
					Exploration Results	Mineral Resources	Mineral Reserves	
Introduction					Yes ¹	Yes	Yes	Yes
			PMRC 2020 Reporting Criterion	Commentary	Yes	Yes	Yes	Yes
	General	(i)	<i>The scope of work or terms of reference</i>		Yes	Yes	Yes	Yes
		(ii)	<i>The Accredited Competent Person’s relationship to the issuer of the Public Report, if any</i>		Yes	Yes	Yes	Yes
		(iii)	<i>A statement for whom the Public Report was prepared; whether it was intended as a full or partial evaluation or other purpose, work conducted, effective date of Public Report, and remaining work</i>		Yes	Yes	Yes	Yes
		(iv)	<i>Sources of information and data contained in the Public Report or used in its preparation, with citations if applicable, and a list of references</i>		Yes	Yes	Yes	Yes
		(v)	<i>A title page and a table of contents that includes figures and tables</i>		Yes	Yes	Yes	Yes

¹ Yes – Include in Appendix 1 of the Technical Report / NA – Not Applicable /Do not include in Appendix 1 of the Technical Report

		(vi)	<i>An Executive Summary, which briefly summarizes important information in the Public Report, including mineral property description and ownership, geology and mineralization, the status of exploration, development and operations, Mineral Resource and/or Mineral Reserve estimates, and the Accredited Competent Person's conclusions and recommendations. If Inferred Mineral Resources are used, a summary valuation with and if practical without inclusion of such Inferred Mineral Resources. The Executive Summary should have sufficient detail to allow the reader to understand the essentials of the project</i>		Yes	Yes	Yes	Yes
		(vii)	<i>A declaration from the Accredited Competent Person, stating whether 'the declaration has been made in terms of the guidelines of the PMRC 2020 Edition. If a reporting code other than the PMRC having jurisdiction has been used, an explanation of the differences</i>		Yes	Yes	Yes	Yes
		(viii)	<i>Diagrams, maps, plans, sections, and illustrations, which are dated, legible, and prepared at an appropriate scale to distinguish important features. Maps including a legend, author or information source, coordinate system and datum, a scale in bar or grid form, and an arrow indicating north. Reference to a location or index map and more detailed maps showing all important features described in the text, including all relevant cadastral and other infrastructure features</i>		Yes	Yes	Yes	Yes
		(ix)	<i>The units of measure, currency, and relevant exchange rates</i>		Yes	Yes	Yes	Yes

		(x)	<i>The details of the personal inspection on the mineral property by each Accredited Competent Person or, if applicable, the reason why a personal inspection has not been completed</i>		Yes	Yes	Yes	Yes
		(xi)	<i>If the Accredited Competent Person is relying on a report, opinion or statement of another expert who is not an Accredited Competent Person, then a disclosure of the date, title, and author of the report, opinion, or statement, the qualifications of the other expert, the reason for the Accredited Competent Person to rely on the other expert, any significant risks, and any steps the Accredited Competent Person took to verify the information provided</i>		Yes	Yes	Yes	Yes
Section 1: Project Outline					Yes	Yes	Yes	Yes
1.1	Location	1.1.1	<i>Description of location and map (country, province, and closest town/city, coordinate systems and ranges, etc.)</i>		Yes	Yes	Yes	Yes
		1.1.2	<i>Country Profile if Mineral Property is outside the Philippines, with a description of information relating to the project host country that is pertinent to the project, including relevant applicable legislation, environmental and social context etc. An assessment, at a high level, of relevant technical, environmental, social, economic, political, and other key risks</i>		Yes	Yes	Yes	Yes

		1.1.3	<i>For Exploration Results²</i> : A general topo-cadastral map / <i>For Mineral Resources</i> : Topo-cadastral map in sufficient <i>For Mineral Reserves</i> : Detail to support the assessment of eventual economics / Detailed topo-cadastral map, with applicable aerial surveys checked with ground controls and surveys, particularly in areas of rugged terrain, dense vegetation		Yes	Yes	Yes	Yes
1.2	Mineral Property Description	1.2.1	Brief description of the scope of project (i.e., whether in preliminary sampling, advanced exploration, Scoping, Pre-Feasibility, or Feasibility Study, Life-of-Mine plan for an ongoing mining operation or closure)		Yes	Yes	Yes	Yes
		1.2.2	Description of topography, elevation, drainage and vegetation, the means and ease of access to the mineral property, the proximity of the mineral property to a population center, and the nature of transport, the climate, known associated climatic and seismic risks and the length of the operating season and to the extent relevant to the mineral project, the sufficiency of surface rights for mining operations including the availability and sources of power, water, mining personnel, potential tailings storage areas, potential waste disposal areas, heap leach pad areas, and potential processing plant sites (noting any conditions that may affect possible exploration/mining activities)		Yes	Yes	Yes	NA

² If a specific criterion or criteria is/are applicable only to a specific Technical Report, i.e., Exploration Results, Exploration Targets, Mineral Resources and/or Mineral Reserves, then include only the relevant criterion in the Appendix 1 of the Technical Report, e.g., for a report on the ECONOMIC ASSESSMENT AND MINERAL RESERVES ESTIMATION, include only criteria for Mineral Reserves

1.3	Adjacent properties	1.3.1	<i>Details of relevant adjacent properties. The inclusion on the maps of the location of common structures, whether related to mineralization or not, in adjacent or nearby properties having an important bearing on the Public Report. Reference to all information used from other sources.</i>		Yes	Yes	Yes	NA
1.4	History	1.4.1	<i>Historical background to the project and adjacent areas concerned, including known results of previous exploration and mining activities (type, amount, quantity, and development work), previous ownership and changes thereto</i>		Yes	Yes	Yes	NA
		1.4.2	<i>Previous successes or failures referred to transparently with reasons why the project should now be considered potentially economic</i>		Yes	Yes	Yes	NA
		1.4.3	<i>Known or existing historical Mineral Resource estimates and performance statistics from actual production in the past and in current operations</i>		NA	Yes	Yes	NA
		1.4.4	<i>Known or existing historical Mineral Reserve estimates and performance statistics from actual production in the past and in current operations</i>		NA	NA	Yes	NA
1.5	Legal Aspects and Permitting	1.5.1	<i>The nature of the issuer's rights (e.g., exploration and/or mining) and the right to use the surface of the properties to which these rights relate. The date of expiry and other relevant details</i>		Yes	Yes	Yes	NA

		1.5.2	<i>The principal terms and conditions of all existing agreements, and details of those still to be obtained, (such as, but not limited to, concessions, partnerships, joint ventures, access rights, leases, historical and cultural sites, wilderness or national park and environmental settings, royalties, consents, permission, permits or authorizations)</i>		Yes	Yes	Yes	NA
		1.5.3	<i>The security of the tenure held at the time of reporting or that is reasonably expected to be granted in the future along with any known impediments to obtaining the right to operate in the area. Details of applications that have been made. See Clause 32 for declaration of a Mineral Reserve</i>		Yes	Yes	Yes	NA
		1.5.4	<i>A statement of any legal proceedings, for example: adverse/competing claims, or land claims that may have an influence on the rights to prospect or mine for minerals, or claims that the tenorial instrument is defective, or an appropriate negative statement</i>		Yes	Yes	Yes	NA
		1.5.5	<i>A statement relating to governmental/statutory requirements permits, and consents as may be required, have been applied for, approved or can be reasonably be expected to be obtained. A review of risks that permits will not be received as expected and impact of delays to the project</i>		Yes	Yes	Yes	NA
1.6	Royalties	1.6.1	<i>The royalties or streaming agreements that are payable in respect of each mineral property</i>		Yes	Yes	Yes	NA

1.7	Liabilities	1.7.1	<i>Any liabilities, including rehabilitation guarantees and decommissioning obligations that are pertinent to the project. A description of the rehabilitation liability and decommissioning obligation, including, but not limited to, legislative/administrative requirements, assumptions, and limitations</i>		Yes	Yes	Yes	NA
Section 2: Geological Setting, Mineral Deposit, Mineralization					Yes	Yes	Yes	NA
2.1	Geological Setting, Mineral Deposit, Mineralization	2.1.1	<i>The regional geology</i>		Yes	Yes	Yes	NA
		2.1.2	<i>The project geology including Mineral Deposit type, geological setting, and style of mineralization</i>		Yes	Yes	Yes	Yes
		2.1.3	<i>The geological model or concepts being applied in the investigation and on the basis of which the exploration program is planned, along with a description of the inferences and assumptions made from this model</i>		Yes	Yes	Yes	Yes
		2.1.4	<i>Data density, distribution, and reliability and whether the quality and quantity of information are sufficient to support statements, made or inferred, concerning the Mineral Deposit</i>		Yes	Yes	Yes	Yes
		2.1.5	<i>Significant minerals present in the Mineral Deposit, their frequency, size and other characteristics, including a discussion of minor and gangue minerals where these will have an effect on the processing steps and the variability of each important mineral within the Mineral Deposit</i>		Yes	Yes	Yes	Yes

		2.1.6	<i>Significant mineralized zones encountered on the mineral property, including a summary of the surrounding rock types, relevant geological controls, and the length, width, depth, and continuity of the mineralization, together with a description of the type, character, and distribution of the mineralization</i>		Yes	Yes	Yes	Yes
		2.1.7	<i>The existence of reliable geological models and/or maps and cross sections that support interpretations</i>		Yes	Yes	Yes	Yes-
Section 3: Exploration and Drilling, Sampling Techniques, and Data					Yes	Yes	Yes	NA
3.1	Exploration	3.1.1	<i>Data acquisition or exploration techniques and the nature, level of detail, and confidence in the geological data used (i.e., geological observations, remote sensing results, stratigraphy, lithology, structure, alteration, mineralization, hydrology, geophysical, geochemical, petrography, mineralogy, geochronology, bulk density, potential deleterious or contaminating substances, geotechnical and rock characteristics, moisture content, bulk samples, etc.). Data sets with all relevant metadata, such as unique sample number, sample mass, collection date, spatial location, etc.</i>		Yes	Yes	Yes	NA
		3.1.2	<i>The primary data elements (observations and measurements) used for the project and a description of the management and verification of these data or the database. Description of the following relevant processes: acquisition (capture or transfer), validation, integration, control, storage, retrieval, and backup processes. If data are not stored digitally, presentation of hand-printed tables with well-organized data and information</i>		Yes	Yes	Yes	NA

		3.1.3	<i>Acknowledgment and appraisal of data from other parties, and reference to all data and information used from other sources</i>		Yes	Yes	Yes	NA
		3.1.4	<i>Distinction between data / information from the mineral property under discussion and that derived from surrounding properties</i>		Yes	Yes	Yes	NA
		3.1.5	<i>The methods for collar and down-hole survey, techniques, and expected accuracies of data as well as the grid system used</i>		Yes	Yes	Yes	NA
		3.1.6	<i>Discussion on the sufficiency of the data spacing and distribution to establish the degree of geological and grade continuity appropriate for the estimation procedure(s) and classifications applied</i>		Yes	Yes	Yes	NA
		3.1.7	<i>Presentation of representative models and/or maps and cross sections or other two or three-dimensional illustrations of results showing location of samples, accurate drill hole collar positions, down-hole surveys, exploration pits, underground workings, relevant geological data, etc.</i>		Yes	Yes	Yes	NA
		3.1.8	<i>The geometry of the mineralization with respect to the drill hole angle because of the importance of the relationships between mineralization widths and intercept lengths. Justification if only down-hole lengths are reported</i>		Yes	Yes	Yes	NA

3.2	Drilling Techniques	3.2.1	<i>Type of drilling undertaken (e.g., core, reverse circulation, open-hole hammer, rotary air blast, auger, Banka, sonic, etc.) and details (e.g., core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.)</i>		Yes	Yes	Yes	NA
		3.2.2	<i>The geological and geotechnical logging of core and chip samples relative to the level of detail required to support appropriate Mineral Resource estimation, mining studies, and metallurgical studies</i>		Yes	Yes	Yes	NA
		3.2.3	<i>The nature of logging (qualitative or quantitative) and the use of core photography (or costean, channel, etc.)</i>		Yes	Yes	Yes	NA
		3.2.4	<i>The total length and percentage of the relevant intersections logged</i>		Yes	Yes	Yes	NA
		3.2.5	<i>Results of any down-hole surveys of the drill hole</i>		Yes	Yes	Yes	NA
3.3	Sample Method, Collection, Capture, and Storage	3.3.1	<i>A description of the nature and quality of sampling (e.g., cut channels, random chips, or specific specialized industry standard measurement tools appropriate to the minerals under investigation, such as down- hole gamma sondes, or handheld or fixed-position XRF instruments, etc.), without these examples limiting the broad meaning of sampling</i>		Yes	Yes	Yes	NA
		3.3.2	<i>A description of the sampling processes, including sub-sampling stages to maximize representativeness of samples, whether sample sizes are appropriate to the grain size of the material being sampled and any sample compositing</i>		Yes	Yes	Yes	NA

		3.3.3	<i>A description of each data set (e.g., geology, grade, density, quality, geo-metallurgical characteristics, etc.), sample type, sample-size selection, and collection methods</i>		Yes	Yes	Yes	NA
		3.3.4	<i>The nature of the geometry of the mineralization with respect to the drill hole angle (if known). The orientation of sampling to achieve unbiased sampling of possible structures, considering the Mineral Deposit type. The intersection angle. The down-hole lengths if the intersection angle is not known</i>		Yes	Yes	Yes	NA
		3.3.5	<i>A description of retention policy and storage of physical samples (e.g., core, sample reject, etc.)</i>		Yes	Yes	Yes	NA
		3.3.6	<i>A description of the method of recording and assessing core and chip sample recoveries and the results assessed, measures taken to maximize sample recovery and ensure representative nature of the samples, whether a relationship exists between sample recovery and grade, and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material</i>		Yes	Yes	Yes	NA

		3.3.7	<i>The cutting of a drill core sample, e.g., whether it was split or sawn and whether quarter, half or full core was submitted for analysis. Non-core sampling, e.g., whether the sample was riffled, tube sampled, rotary split, etc.; whether it was sampled wet or dry; the impact of water table or flow rates on recovery and introduction of sampling biases or contamination from above. The impact of variable hole diameters, e.g., by the use of a caliper tool</i>		Yes	Yes	Yes	NA
3.4	Sample Preparation and Analysis	3.4.1	<i>The identity of the laboratory(s) and its accreditation status. The steps taken by the Accredited Competent Person to ensure the results from a non-accredited laboratory are of an acceptable quality</i>		Yes	Yes	Yes	NA
		3.4.2	<i>The analytical method, its nature, the quality and appropriateness of the assaying and laboratory processes and procedures used, and whether the technique is considered partial or total</i>		Yes	Yes	Yes	NA
		3.4.3	<i>A description of the process and method used for sample preparation, sub-sampling and size reduction, and the likelihood of inadequate or non-representative samples (i.e., improper size reduction, contamination, screen sizes, granulometry, mass balance, etc.)</i>		Yes	Yes	Yes	NA
3.5	Sampling Governance	3.5.1	<i>The governance of the sampling campaign and process, to ensure quality and representativeness of samples and data, such as sample recovery, high grading, selective losses or contamination, core/hole diameter, internal and external QA/QC, and any other factors that may have resulted in or identified sample bias</i>		Yes	Yes	Yes	NA

		3.5.2	<i>The measures taken to ensure sample security and the Chain of Custody</i>		Yes	Yes	Yes	NA
		3.5.3	<i>The validation procedures used to ensure the integrity of the data, e.g., transcription, input or other errors, between its initial collection and its future use for modeling (e.g., geology, grade, bulk density, etc.)</i>		Yes	Yes	Yes	NA
		3.5.4	<i>The audit process and frequency (including dates of these audits) and disclose any material risks identified</i>		Yes	Yes	Yes	NA
3.6	Quality Control/ Quality Assurance	3.6.1	<i>The verification techniques (QA/QC) for field sampling process, e.g., the level of duplicates, blanks, reference material standards, process audits, analysis, etc. Indirect methods of measurement (e.g., geophysical methods), with attention given to the confidence of interpretation. Reference to measures taken to ensure sample representativeness and the appropriate calibration of any measurement tools or systems used. QA/QC procedures used to check databases augmented with 'new' data have not disturbed previous versions containing 'old' data</i>		Yes	Yes	Yes	Yes
3.7	Bulk Density	3.7.1	<i>The method of bulk density determination with reference to the frequency of measurements, the size, nature, and representativeness of the samples</i>		Yes	Yes	Yes	Yes
		3.7.2	<i>Preliminary estimates or basis of assumptions made for bulk density</i>		Yes	Yes	Yes	Yes
		3.7.3	<i>The representativeness of bulk density samples</i>		Yes	Yes	Yes	Yes

		3.7.4	<i>The measurement of bulk density for bulk material using methods that adequately account for void spaces (vugs, porosity etc.), moisture, and differences between rock and alteration zones within the Mineral Deposit</i>		Yes	Yes	Yes	Yes
3.8	Bulk Sampling and/or Trial-mining	3.8.1	<i>The location of individual samples (including map)</i>		Yes	Yes	Yes	Yes
		3.8.2	<i>The size of samples, spacing/density of samples recovered, and whether sample sizes and distribution are appropriate to the grain size of the material being sampled</i>		Yes	Yes	Yes	Yes
		3.8.3	<i>The method of mining and treatment</i>		Yes	Yes	Yes	Yes
		3.8.4	<i>The degree to which the samples are representative of the various types and styles of mineralization and the Mineral Deposit as a whole</i>		Yes	Yes	Yes	Yes
Section 4: Estimation and Reporting of Exploration Results and Mineral Resources					Yes	Yes	Yes	Yes
4.1	Geological Model and Interpretation	4.1.1	<i>The nature, detail, and reliability of geological information with which lithological, structural, mineralogical, alteration or other geological, geotechnical, and geo-metallurgical characteristics were recorded</i>		Yes	Yes	Yes	Yes
		4.1.2	<i>The geological model, construction technique, and assumptions that form the basis for the Exploration Results or Mineral Resource estimate. The sufficiency of data density to assure continuity of mineralization and geology, and provision of an adequate basis for the estimation and classification procedures applied</i>		Yes	Yes	Yes	Yes

		4.1.3	<i>Any obvious geological, mining, metallurgical, processing, environmental, social, infrastructural, legal, and economic factors that could have a significant effect on the prospects of any possible Exploration Target or Mineral Deposit</i>		Yes	NA	NA	NA
		4.1.4	<i>Geological data that could materially influence the estimated quantity and quality of the Mineral Resource or Mineral Reserve</i>		NA	Yes	Yes	NA
		4.1.5	<i>Consideration given to alternative interpretations or models and their possible effect (or potential risk), if any, on the Mineral Resource estimate</i>		NA	Yes	Yes	NA
		4.1.6	<i>Geological discounts (e.g., magnitude, per reef, domain, etc.), applied in the model, whether applied to mineralized and/or unmineralized material (e.g., potholes, faults, dikes, etc.)</i>		NA	Yes	Yes	NA
4.2	Estimation and Modeling Techniques	4.2.1	<i><u>For Exploration Targets:</u> A detailed description of the estimation techniques and assumptions used to determine the grade and tonnage ranges / <u>For Mineral Resources & Mineral Reserves:</u> Histograms, statistical parameters, probability distributions of samples, and of block estimates. If geostatistics is done, must show variogram(s) and parameters (e.g., sill, range, nugget effect) depending on variogram type, sizes of estimation panels or blocks, assumed or known selective mining unit</i>		Yes	Yes	Yes	NA

		4.2.2	<i>The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values (cutting or capping), compositing (including by length and/or density), domaining, sample spacing, estimation unit size (block size), selective mining units, interpolation parameters, and maximum distance of extrapolation from data points</i>		NA	Yes	Yes	-
		4.2.3	<i>Assumptions and justification of correlations made between variables</i>		NA	Yes	Yes	NA
		4.2.4	<i>Any relevant specialized computer program (software) used (with the version number) together with the parameters used</i>		NA	Yes	Yes	NA
		4.2.5	<i>The processes of checking and validation, the comparison of model information to sample data and use of reconciliation data, and whether the Mineral Resource estimate takes account of such information</i>		NA	Yes	Yes	NA
		4.2.6	<i>The assumptions made regarding the estimation of any co-products, by-products or deleterious elements</i>		NA	Yes	Yes	NA
4.3	Reasonable Prospects for Eventual Economic Extraction (RPEEE)	4.3.1	<i>The geological parameters, including (but not be limited to) volume / tonnage, grade and value / quality estimates, cut-off grades, strip ratios, upper- and lower-screen sizes</i>		NA	Yes	Yes	NA

		4.3.2	<i>The engineering parameters, including mining method, processing, geotechnical, hydrogeological, and metallurgical parameters, including assumptions made to mitigate the effect of deleterious elements. Dilution and mining recovery factors that might be applicable to convert in-situ Mineral Resources to Mineral Reserves</i>		NA	Yes	Yes	NA
		4.3.3	<i>The infrastructure including, but not limited to, power, water, and site access</i>		NA	Yes	Yes	NA
		4.3.4	<i>The legal, governmental, permitting, and statutory parameters</i>		NA	Yes	Yes	NA
		4.3.5	<i>The environmental and social (or community) parameters</i>		NA	Yes	Yes	NA
		4.3.6	<i>The marketing parameters</i>		NA	Yes	Yes	NA
		4.3.7	<i>The economic assumptions and parameters, including, but not limited to, commodity prices, sales volumes, and potential capital and operating costs</i>		NA	Yes	Yes	NA
		4.3.8	<i>Material risks, e.g., legal, environmental, climatic, etc.</i>		NA	Yes	Yes	NA
		4.3.9	<i>The parameters used to support the concept of 'eventual' in the case of Mineral Resources</i>		NA	Yes	Yes	NA
4.4	Classification Criteria	4.4.1	<i>The criteria and methods used as the basis for the classification of the Mineral Resources into varying confidence categories</i>		NA	Yes	Yes	NA

4.5	Discussion of Relative Accuracy/ Confidence	4.5.1	<i>Where appropriate, a statement of the relative accuracy and confidence level in the Mineral Resource or Mineral Reserve estimate using an approach or procedure deemed appropriate by the Accredited Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the Mineral Resource or Mineral Reserve within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate. The statement should specify whether it relates to global or local estimates, and, if local, state the relative tonnages, which should be relevant to technical and economic evaluation. Documentation shall include assumptions made and the procedures used. These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</i>		NA	Yes	Yes	NA
4.6	Reporting	4.6.1	<i>Specific grades / qualities and widths.</i>		Yes	NA	NA	NA
		4.6.2	<i>The reporting of low- and high-grade intersections and corresponding widths, together with their spatial location to avoid misleading reporting of Exploration Results</i>		Yes	NA	NA	NA
		4.6.3	<i>A statement on whether grades are regional averages or if these are selected individual samples taken from the mineral property under discussion</i>		Yes	NA	NA	NA
		4.6.4	<i>The detail of the surface or underground mine, residue stockpile, remnants, tailings, and existing pillars or other sources in a Mineral Resource statement</i>		Yes	NA	NA	NA

		4.6.5	<i>A comparison with the previous Mineral Resource estimates, with an explanation of the reason for material changes. A comment on any historical trends (e.g., global bias)</i>		NA	Yes	Yes	NA
		4.6.6	<i>The basis for the estimate and if not 100%, the attributable percentage relevant to the entity commissioning the Public Report</i>		Yes	Yes	Yes	NA
		4.6.7	<i>The basis of the Metal Equivalent formulae, if relevant</i>		NA	Yes	Yes	Yes
Section 5: Technical Studies					Yes	Yes	Yes	Yes
5.1	Introduction	5.1.1	<i>The level of study – Scoping, Pre-Feasibility, Feasibility or ongoing Life-of-Mine Plan</i>		NA	Yes	Yes	Yes
		5.1.2	<i>A summary table of the Modifying Factors used to convert the Mineral Resource to Mineral Reserve</i>		NA	NA	Yes	Yes
5.2	Mining Design	5.2.1	<i>Assumptions regarding mining methods and parameters when estimating Mineral Resources</i>		NA	Yes	NA	Yes
		5.2.2	<i>All Modifying Factors and assumptions made regarding mining methods, minimum mining dimensions (or pit shell) and internal and, if applicable, external planned and unplanned mining dilution and mining losses used for the techno-economic study and signed-off, such as mining method, mine design criteria, infrastructure, capacities, production schedule, mining efficiencies, grade control, geotechnical and hydrological considerations, closure plans, and personnel requirements</i>		NA	NA	NA	Yes
		5.2.3	<i>Mineral Resource models used in the study</i>		NA	Yes	Yes	Yes

		5.2.4	<i>For Mineral Resources:</i> The basis of the cut-off grade(s) / <i>For Mineral Reserves:</i> The basis of (the adopted) cut-off grade(s) or quality parameters applied, including metal equivalents if relevant		NA	Yes	Yes	Yes
		5.2.5	The mining method(s) to be used		NA	NA	Yes	Yes
		5.2.6	For open cut mines, a discussion of pit slopes, slope stability, and strip ratio		NA	NA	Yes	Yes
		5.2.7	For underground mines, a discussion of mining method, geotechnical considerations, mine design characteristics, and ventilation/cooling requirements		NA	NA	Yes	Yes
		5.2.8	Discussion of mining rate, equipment selected, grade control methods, geotechnical and hydrogeological considerations, health and safety of the workforce, staffing requirements, dilution, and recovery		NA	NA	Yes	Yes
		5.2.9	Optimization methods and software used in planning, including a discussion of the constraints		NA	NA	Yes	Yes
5.3	Metallurgical Test Works	5.3.1	The source of the samples, the representativeness of the potential feed and the techniques used to obtain the samples, laboratory and metallurgical testing techniques		NA	NA	Yes	Yes
		5.3.2	The basis for assumptions or predictions regarding metallurgical amenability and any preliminary mineralogical test work should already be carried out		NA	NA	Yes	Yes

		5.3.3	<u>For Mineral Resources:</u> The possible processing methods and any processing factors that could have a material effect on the likelihood of eventual economic extraction. The appropriateness of the processing methods to the style of mineralization / <u>For Mineral Reserves:</u> The processing method(s), equipment, plant capacity, efficiencies, and personnel requirements		NA	Yes	Yes	Yes
		5.3.4	The nature, amount, and representativeness of metallurgical test works undertaken and the recovery factors used. A detailed flow sheet / diagram and a mass balance, especially for multi-product operations from which the saleable materials are priced for different chemical and physical characteristics		NA	NA	Yes	Yes
		5.3.5	Assumptions or allowances made for deleterious elements and the existence of any bulk-sample or pilot-scale test work and the degree to which such samples are representative of the ore body as a whole		NA	NA	Yes	Yes
		5.3.6	Disclosure of whether metallurgical process is well-tested technology or novel in nature and if novel, justification of its use in Mineral Reserve estimation		NA	NA	Yes	Yes
5.4	Infrastructure	5.4.1	<u>For Mineral Resources:</u> Comment regarding the current state of infrastructure or the ease with which the infrastructure can be provided or accessed and its effect on RPEEE		NA	Yes	NA	Yes

		5.4.2	<i>Demonstration that the necessary facilities have been allowed for (which may include, but not be limited to, processing plant, tailings dam, leaching facilities, waste dumps, road, pipeline, rail or port facilities, water and power supply, offices, housing, security, resource sterilization testing, etc.). Provision of detailed maps showing locations of facilities</i>		NA	NA	Yes	Yes
		5.4.3	<i>Statement showing that all necessary logistics have been considered</i>		NA	NA	Yes	Yes
5.5	Environmental & Social	5.5.1	<i>Confirmation that the company holding the tenement has addressed the host country's environmental legal compliance requirements and any mandatory and/or voluntary standards or guidelines to which the company subscribes</i>		Yes	Yes	Yes	NA
		5.5.2	<i>Identification of the necessary permits that will be required and their status, and where not yet obtained, and confirmation that there is a reasonable basis to believe that all permits required for the project will be obtained in a timely manner</i>		Yes	Yes	Yes	NA
		5.5.3	<i>Any sensitive areas that may affect the project as well as any other environmental factors including Interested and Affected Party (I&AP) and/or studies that could have a material effect on the likelihood of eventual economic extraction. Possible means of mitigation</i>		Yes	Yes	Yes	NA
		5.5.4	<i>Legislated social management programs that may be required and content and status of these</i>		Yes	Yes	Yes	NA
		5.5.5	<i>Material socio-economic and cultural impacts that need to be managed, and where appropriate the associated costs</i>		Yes	Yes	Yes	NA

5.6	Market Studies & Economic Criteria	5.6.1	For Mineral Resources: Technical and economic factors likely to influence the RPEEE / For Mineral Reserves: Valuable and potentially valuable product(s) including suitability of products, co-products and by-products to market		NA	Yes	Yes	Yes
		5.6.2	Product to be sold, customer specifications, testing, and acceptance requirements. Existence of a ready market for the product and whether contracts for the sale of the product are in place or expected to be readily obtained. Price and volume forecasts and the basis for the forecast.		NA	NA	Yes	Yes
		5.6.3	Economic criteria used for the study, such as capital and operating costs, exchange rates, revenue / price curves, royalties, and streaming agreements, cut-off grades, reserve pay limits		NA	NA	Yes	Yes
		5.6.4	Summary description, source, and confidence of method used to estimate the commodity price/value profiles used for cut-off grade calculation, economic analysis and project valuation, including applicable taxes, inflation indices, discount rate, and exchange rates		NA	NA	Yes	Yes
		5.6.5	Assumptions made concerning production cost including transportation, treatment, penalties, exchange rates, marketing, and other costs. Allowances should be made for the content of deleterious elements and the cost of penalties		NA	NA	Yes	Yes
		5.6.6	Allowances made for royalties and streaming agreements payable, both to Government and private entities		NA	NA	Yes	Yes
		5.6.7	Ownership, type, extent, and condition of plant and equipment that is significant to the existing operation(s)		NA	NA	Yes	Yes

		5.6.8	<i>Environmental, social, and labor costs</i>		NA	NA	Yes	Yes
5.7	Risk Analysis	5.7.1	<i>An assessment of technical, environmental, social, economic, political, and other key risks to the project. Actions that will be taken to mitigate and/or manage the identified risks</i>		Yes	Yes	Yes	Yes
5.8	Economic Analysis	5.8.1	<i>For Mineral Resources:</i> <i>The basis on which RPEEE has been determined. Any material assumptions made in determining the ‘RPEEE’ /</i> <i>For Mineral Reserves:</i> <i>The inclusion of any Inferred Mineral Resources is not allowed in the Pre-Feasibility and Feasibility Studies economic analysis</i>		NA	Yes	Yes	Yes
		5.8.2	<i>An economic analysis for the project that includes after tax Cash Flow forecast on an annual basis using Mineral Reserves or Mineral Resources or an annual production schedule for the life of the project, which has been used at the relevant level Pre-Feasibility or Feasibility Study</i>		NA	NA	Yes	Yes
		5.8.3	<i>Accounting for royalties and streaming agreements. A discussion of net present value (NPV), internal rate of return (IRR) and payback period of capital</i>		NA	NA	Yes	Yes
		5.8.4	<i>Sensitivity or other analysis using variants in commodity price, grade, capital and operating costs, or other significant parameters, as appropriate and discuss the impact of the results</i>		NA	NA	Yes	Yes
Section 6: Estimation and Reporting of Mineral Reserves					NA	NA	Yes	NA
6.1	Estimation and Modeling Techniques	6.1.1	<i>A description of the Mineral Resource estimate used as a basis for the conversion to a Mineral Reserve</i>		NA	NA	Yes	NA

		6.1.2	<i>A Mineral Reserve Statement in sufficient detail indicating if the mining is by surface or underground method plus the source and type of mineralization, domain or orebody, surface dumps, stockpiles, and all other sources</i>		NA	NA	Yes	NA
		6.1.3	<i>Reconciliation of historical reliability and reconciliation of the performance parameters, assumptions and modifying factors. A comparison with the previous Reserve quantity and qualities, if available. Where appropriate, any historical trends (e.g., global bias).</i>		NA	NA	Yes	NA
		6.1.4	<i>Criteria and methods used as the basis for the classification of the Mineral Reserves into varying confidence categories, which should be based on the Mineral Resource category, and include consideration of the confidence in all the Modifying Factors</i>		NA	NA	Yes	NA
6.2	Classification Criteria	6.2.1	<i>Criteria and methods used as the basis for the classification of the Mineral Reserves into varying confidence categories, which should be based on the Mineral Resource category, and include consideration of the confidence in all the Modifying Factors</i>		NA	NA	Yes	NA
6.3	Reporting	6.3.1	<i>The proportion of Probable Mineral Reserves, which have been derived from Measured Mineral Resources (if any), including the reason(s) thereof</i>		NA	NA	Yes	NA
		6.3.2	<i>The inclusion in a Mineral Reserve statement of the detail of the surface or underground mine, residue stockpile, remnants, tailings, and existing pillars or other sources</i>		NA	NA	Yes	NA
		6.3.3	<i>A comparison with the previous Mineral Reserve estimates. Any historical trends (e.g., global bias)</i>		NA	NA	Yes	NA
		6.3.4	<i>The inclusion or exclusion of Mineral Resources in Mineral Reserves</i>		NA	NA	Yes	NA

Section 8. Other Relevant Information³					Yes	Yes	Yes	Yes
8.1	Other Relevant Information	8.1.1	Other relevant and material information not discussed elsewhere		Yes	Yes	Yes	Yes
Section 9: Accredited Competent Person					Yes	Yes	Yes	Yes
9.1	Qualification of Accredited Competent Person(s) and Key Technical Staff	9.1.1	The full name of the Accredited Competent Person, profession, address, their PRC and Accredited Competent Person registration numbers and the name of the Professional Representative Organization (or RPO), of which the Accredited Competent Person(s) is member. The relevant experience of the Accredited Competent Person(s) and other key technical staff who prepared and who are responsible for the Public Report		Yes	Yes	Yes	Yes
	Relationship to the issuer	9.1.2	The Accredited Competent Person's relationship to the issuer of the Public Report, if any		Yes	Yes	Yes	Yes
		9.1.3	The inclusion of the Accredited Competent Person's Consent Form (see Appendices 3 & 4). Such Consent Form should include the date of sign-off and the effective date of the Public Report.		Yes	Yes	Yes	Yes
Section 10: Reporting for Coal Resources and Coal Reserves (Note: Applicable to Coal Reports Only)								
10.1	Specific Reporting for Coal	10.1.1	Appendix 6 of the Code provides additional criteria for reporting on coal deposits		Yes	Yes	Yes	NA
		10.1.2	Guidance is available in relevant national standards for Coal Exploration Results, Coal Resources, and Coal Reserves reporting.		Yes	Yes	Yes	NA

³ Section 7 (Audits & Reviews) of Table 1 of PMRC 2020 had been skipped in this Appendix 1 since if there were any audits and reviews during the report writing, the ACP(s) will have evaluated them in the Technical Report

10.2	Geological Setting, Coal Deposit, Mineralization	10.2.1	<i>The project geology including coal deposit type, geological setting, and coal seams / zones present</i>		Yes	Yes	Yes	NA
		10.2.2	<i>The structural complexity, physical continuity, coal rank, qualitative and quantitative properties of the significant coal seams or zones on the coal property</i>		Yes	Yes	Yes	NA
10.3	Drilling Techniques	10.3.1	<i>Core recoveries and method of calculation. Core recoveries in cored boreholes should be in excess of 95% by length within the coal seam intersection</i>		Yes	Yes	Yes	NA
10.4	Relative Density to replace Bulk Density	10.4.1	<i>The apparent relative density or true relative density of the coal seam(s) determined on coal samples from borehole cores using recognized standard laboratory methods or commonly used procedures. The moisture basis on which the relative density determination is based and the moisture basis on which the final density value is reported (in situ or air-dried basis), should be stated</i>		Yes	Yes	Yes	NA
10.5	Bulk- Sampling and/or trial-mining	10.5.1	<i>The purpose or aim of the bulk sampling program, the size of samples, spacing/density of samples recovered. The applicability of bulk sampling or large diameter core samples to provide representative samples for tests. Comparison of results obtained from bulk sampling versus exploration sampling</i>		Yes	Yes	Yes	NA
10.6	Reasonable Prospects for Eventual Economic Extraction	10.6.1	<i>The basis on which reasonable prospects for eventual economic extraction has been determined. Any material assumptions made in determining the 'RPEEE'</i>		Yes	Yes	Yes	NA

10.7	Coal Resource and Coal Reserve Reporting	10.7.1	<i>The appropriate coal quality for all Coal Resource and Coal Reserve categories. The type of analysis (e.g., raw coal, washed coal at a specific cut-point density) and the basis of reporting of the coal quality parameters (e.g., air-dried basis, dry basis, etc.).</i>		NA	Yes	Yes	NA
		10.7.2	<i>For Mineral Resources:</i> A Coal Resource only includes the coal seam(s) above the minimum thickness cut-off and the coal quality cut-off(s) / <i>For Mineral Reserves:</i> The Reserves may be reported as Run-of-Mine (ROM) tonnages and coal quality, and also as Saleable product/s tonnages and coal quality		NA	Yes	Yes	NA
		10.7.3	<i>The reporting basis with particular reference to moisture and relative density.</i>		NA	Yes	Yes	NA

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