PS		MEMORANDUM
	THE	PHILIPPINE STOCK EXCHANGE, INC.
	Trading Disclosu Listing	□       Public Advisory         □       Administrative/Technology Matters         □       Others:         □       Draft 2020 PMRC IRR
ТО	:	ALL CONCERNED STAKEHOLDERS
SUBJECT	:	DRAFT IMPLEMENTING RULES AND REGULATIONS OF THE 2020 PHILIPPINE MINERAL REPORTING CODE
DATE	:	October 20, 2023
has reques Regulation	sted the E ns of the P	that the Philippine Mineral Reporting Code Committee ("PMRCC" xchange to publish the initial draft of the Implementing Rules and Philippine Mineral Reporting Code 2020 Edition ("2020 PMRC IRR" re and public comments.
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CMDD FD Tel. No.: (632) 8876-4888

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HRD/RISK/SU CCD/FMD/AD

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Τ E-mail Address: investing@pse.com.ph

## TEXT COLOR LEGEND OF THIS DRAFT:

Black – Original IRR of PMRC 2007 Red – Changes by PMRCC

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G CODE
e "Code") (ANNEX I), sets out rting of Exploration Results,
ical assessments and design
C 2007 Edition and modeled he Committee for Mineral
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012 of the Australasian Joint
019's sixteen (16) Standard
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nittee (PERC) in Europe.
Exchange, Inc. ("PSE" or the
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- d. 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 ten percent (10%) of the book value of the listed company
- e. Such other companies as may be determined by the Exchange to ensure full, fair, and accurate Disclosures of material information

## 54 **3.0 GLOSSARY OF TERMS AND ACRONYMS**

- 56 3.1 Accredited Competent Person (ACP) is a minerals industry professional who is a Member or Fellow of the Philippine Society of Mining Engineers (PSEM), the Geological Society of 57 58 the Philippines (GSP) or the Society of Metallurgical Engineers of the Philippines (SMEP), 59 duly accredited as an ACP by the professional organization to which he/she belongs, or of a Recognized Professional Organization (RPO) included in a list promulgated by PSEM, 60 GSP, and SMEP through the Philippine Mineral Reporting Code Committee (PMRCC) as 61 the need arises, subject to the applicable laws and regulations. These professional 62 63 organizations have enforceable disciplinary processes including the powers to suspend or expel a member. An ACP must have a minimum of five (5) years relevant experience in 64 the style of mineralization or type of Mineral Deposit under consideration and to the 65 activity which that person is undertaking. If the ACP is preparing a report on Exploration 66 Results and/or Exploration Targets, the relevant experience must be in exploration. If the 67 68 ACP is estimating, or supervising the estimation of Mineral Resources, the relevant 69 experience must be in the estimation, assessment, and evaluation of Mineral Resources. 70 If the ACP is estimating, or supervising the estimation of Mineral Reserves, the relevant 71 experience must be in the estimation, assessment, evaluation, and economic extraction of Mineral Reserves (Clause 12, PMRC 2020). 72 73
  - 3.1.1 **ACP-Geologist** is an Accredited Competent Person-Geologist.
    - 3.1.2 **ACP-Metallurgical Engineer** is an Accredited Competent Person-Metallurgical Engineer.
  - **3.1.3 ACP-Mining Engineer** is an Accredited Competent Person-Mining Engineer.
  - 3.2 **Beneficial Ownership of Securities** means any person who, directly or indirectly, through any contract, arrangement, understanding, relationship or otherwise, has or shares voting power, which includes the power to vote, or to direct the voting of such security; provided however, that the person shall be deemed to have an indirect beneficial ownership interest in any security.<sup>1</sup>
  - 3.3 **BOI** is the acronym for Board of Investments of the Department of Trade and Industry.
  - 3.4 **CADT** is the acronym for Certificate of Ancestral Domain Title as defined in the Indigenous Peoples' Rights Act of 1997 (Republic Act No. 8371).

<sup>&</sup>lt;sup>1</sup> Amended Implementing Rules and Regulations of the Securities Regulation Code, SRC Rule 3 – Definition of Terms Used in the Rules and Regulations

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- 3.5 **CAPEX** is the acronym for Capital Expenditures.
- 3.6 **CDP** is the acronym for Community Development Program as defined by Section 136-A of the Department of Environment and Natural Resources (DENR) Department Administrative Order (DAO) No. 2010-13.
- 3.7 COC is the acronym for Coal Operating Contract in the Department of Energy (DOE) which
   refers to a specific agreement between the Philippine government and a contractor for
   the exploration, development, utilization, and extraction of coal resources within a
   specific contract area as defined under Section 9 of Presidential Decree No. 972 of 1976.
- 1023.8Cut-off Grade is the lowest grade, or quality, of mineralized material that qualifies as103economically mineable and available in a given Mineral Deposit. May be defined on the104basis of economic evaluation, or on physical or chemical attributes that define an105acceptable product (Appendix 1, PMRC 2020). It may also refer to the lower limit of grade106values that delineate the mineralization or Mineral Resource.
- 1083.9Data Validation is a process of establishing the integrity of verified data for use in the<br/>assessment. It is essential that previous data intended to be used in the Mineral<br/>Resources and/or Mineral Reserves estimation are validated through a field check<br/>sampling program of a scale that would demonstrate that the data could be reliably used.
- 1133.10Data Verification is a process of confirming that the data used were generated with "best114practice procedures", accurately transcribed from the reference, and are suitable for use.115It is essential that original data are checked and that their integrity and credibility are116demonstrated.
- 118 3.11 **DENR** is the acronym for Department of Environment and Natural Resources.
- 120**3.12Disclosure** is any structured or unstructured report submitted to the Exchange in121accordance with the Revised Disclosure Rules. Disclosures include, but are not limited to,122reports, announcements, notices, letters, media releases, information memoranda,123website postings, public presentations, and such other documents containing material124information.
- 126 3.13 **DOE** is the acronym for Department of Energy.
- 128 3.14 **ECC** is the acronym for Environmental Compliance Certificate.
- 1303.15Effective Date refers to the cut-off date of the Issuer's technical data included in131Disclosures such as Technical Reports.
- 133 3.16 **EMS** is the acronym for Environmental Management System.
- 1353.17**EP** is the acronym for Exploration Permit as defined by the Philippine Mining Act of 1995136(Republic Act No. 7942).
- 138 3.18 **EPC** is the acronym for Engineering, Procurement, Construction.

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140	3.19	<b>EPCM</b> is the acronym for Engineering, Procurement, Construction Management.
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142	3.20	<b>EPEP</b> is the acronym for Environmental Protection and Enhancement Program.
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144	3.21	<b>ESG</b> is the acronym referring to Environmental, Social, and Governance. Each of these
145		areas are unique disciplines, however there are many aspects that overlap, and it is often
146		these inter-relationships that drive risk (threats and opportunities). ESG includes all
147		aspects of sustainability.
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149	3.22	Exploration Results include data and information generated by mineral exploration
150		programs that may be of use to investors, but which do not form part of a declaration of
151		Mineral Resources or Mineral Reserves (Clause 21, PMRC 2020).
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153	3.23	<b>Exploration Target</b> is a statement or estimate of the exploration potential of a Mineral
154		Deposit in a defined geological setting where the statement or estimate, quoted as a
155		range of tonnage (or volume) and a range of grade (or quality) relates to mineralization
156		for which there has been insufficient exploration to estimate a Mineral Resource (Clause
157		20, PMRC 2020).
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159	3.24	FMRDP is the acronym for Final Mine Rehabilitation and Decommissioning Plan as
160		defined by DENR DAO No. 96-40.
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162	3.25	<b>FTAA</b> is the acronym for Financial or Technical Assistance Agreement as defined by the
163		Philippine Mining Act of 1995 (Republic Act No. 7942).
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165	3.26	Historical Data refers to any set of Exploration Results, Mineral Resources, Mineral
166		Reserves and/or any technical data generated on the Mineral Property prior to
167		acquisition by the Issuer, which is part of the subject covered by the current Technical
168		Report.
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170	3.27	Historical Estimate refers to an estimate of Mineral Resources and/or Mineral Reserves
171		declared or reported prior to the acquisition of the mining rights of the Mineral Property
172		by the Issuer.
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174	3.28	'If not, why not' means that each heading and sub-heading listed in TR-FORMs 1, 2, and
175		3 (ANNEX II of this IRR) and each item in the relevant section of Table 1 of the PMRC 2020
176		must be discussed and if it is not discussed, then the ACP must explain why it has been
177		omitted from the documentation (modified from Clause 7, PMRC 2020).
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179	3.29	I&AP is the acronym for Interested and Affected Party.
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181	3.30	Indigenous People (or Indigenous Cultural Community) as defined by the Indigenous
182		Peoples' Rights Act of 1997 (Republic Act No. 8371).
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184	3.31	<b>IRR</b> is the acronym for Implementing Rules and Regulations of PSE for the PMRC 2020.
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186	3.32	<b>ISO</b> is the acronym for International Organization for Standardization.

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  3.33 Issuer is a company listed in the Philippine Stock Exchange (PSE). Also applicable for companies applying for listing in the PSE.
  - 3.34 **LoMP** is the acronym for Life-of-Mine Plan which refers to a mine design with corresponding financial/economic study of an existing operation in which appropriate assessments have been made of existing geological, mining, metallurgical, economic, marketing, legal, environmental, social, governmental, engineering, operational, and all other Modifying Factors, which are considered in sufficient detail (to Pre-Feasibility level) to demonstrate that continued extraction is reasonably justified. Refer to Table 2 of PMRC 2020 for guidance (*Appendix 1, PMRC 2020*).
    - 3.35 **Metal Equivalents** are sometimes used by companies to report polymetallic contents of Mineral Deposits and converted in terms of a single equivalent grade of a major metal in the Mineral Deposit showing details of all material factors contributing to the net value derived from each constituent metal (modified from Clause 46, PMRC 2020).
      - 3.36 **MGB** is the acronym for Mines and Geosciences Bureau of the DENR.
    - 3.37 **Mineral** is any substance, extracted for value, occurring naturally in or on the Earth, in or under water or in tailings, residues or stockpiles, having been formed by or subjected to a geological process but excludes water, oil, and gas (*Clause 4, PMRC 2020*).
      - 3.38 **Mineral Deposit** is a distinct place in the Earth's crust where geological processes have concentrated one or more Minerals at greater abundance than in the average crust.
  - **3.39 Mineral Exploration** means searching or prospecting for Mineral Resources by geological, geochemical and/or geophysical surveys, remote sensing, test pitting, trenching, drilling, and other related means to determine their existence, quantity and quality, and the feasibility of mining them. The usual stages of Mineral Exploration are:
- Phase I. Prospecting and Preliminary Exploration is an initial exploration 3.39.1 activity in a Mineral Property. The main activities consist of rapid reconnaissance geological mapping and widely-spaced geochemical sampling of stream sediments, soils, and rocks, and remote sensing, at times. The objective is to locate surface and near-surface indications of mineralization and to obtain initial data on the general geology of the exploration area, characteristics of the minerals of interest and range of concentration of the contained elements. The desired target or outcome of this activity is **Exploration Results**.
- 2283.39.2Phase II. Exploration is a follow-up work done after Prospecting and229Preliminary Exploration (Phase I) in a Mineral Property. The main activities230consist of semi-detailed geological mapping and geochemical sampling at231widely-spaced observation and sampling points, including geophysical survey(s)232in selected places, as well as limited trenching/pitting and/or random scout to233widely-spaced drilling. The objective is to verify the existence of significant

234mineralization. The desired target or outcome of this activity is still included235under Exploration Results and possibly Exploration Targets.

- 237 3.39.3 **Phase III. Semi-detailed Exploration** is conducted to delineate the length, width, depth, and shape of the mineralization in a delineated Mineral 238 239 Deposit(s) within a Mineral Property. The main activities consist of semi-240 detailed to detailed geological mapping and geochemical sampling at closely-241 spaced observation and sampling points, soil grid sampling, and closely-spaced 242 drilling in the delineated mineralized areas. Other specialized exploration techniques are also applied such as geophysics. The objective is to be able to 243 244 estimate the tonnage (or quantity) and grade (or quality) with a level of 245 geological confidence lower than Indicated Mineral Resource. The desired target is Inferred Mineral Resource. 246
- 2483.39.4Phase IV. Detailed Exploration is conducted to delineate the tonnage (or<br/>quantity) and grade (or quality) of the Mineral Deposit(s) with a level of<br/>geological confidence higher than Inferred Mineral Resource. The main<br/>activities consist of detailed geological mapping and geochemical sampling at<br/>closer-spaced observation points, mainly by drilling, adequate to establish<br/>moderate to high confidence level of geological and grade (or quality)<br/>continuity. The desired target is Indicated to Measured Mineral Resource.
  - **3.40 Mineral Property** is a piece of land owned by the state duly recognized in the MGB of the DENR or the Energy Resources Development Bureau of the DOE with distinct location, area, and technical description.
- 3.41 Mineral Reserve is the economically mineable part of a Measured and/or Indicated 260 Mineral Resource. It includes diluting materials and allowances for losses, which may 261 occur when the material is mined or extracted and is defined by studies at Pre-Feasibility 262 263 or Feasibility level as appropriate that include application of Modifying Factors. Such studies demonstrate that, at the time of reporting, extraction could reasonably be 264 265 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, 266 267 in all situations where the reference point is different, such as a saleable product, a 268 clarifying statement is included to ensure that the reader is fully informed as to what is 269 being reported (Clause 32, PMRC 2020).
  - 3.41.1 **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*).
- 2763.41.2**Proved Mineral Reserve** is the economically mineable part of a Measured277Mineral Resource. A Proved Mineral Reserve implies a high degree of278confidence in the Modifying Factors (Clause 34, PMRC 2020).
- 2803.42Mineral Resource is a concentration or occurrence of solid material of economic interest281in or on the Earth's crust in such form, grade (or quality), and quantity that there are

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reasonable prospects for eventual economic extraction. 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 (*Clause 23, PMRC 2020*).

- 288 3.42.1 Inferred Mineral Resource is that part of a Mineral Resource for which quantity 289 and grade (or quality) are estimated in a Mineral Deposit on the basis of limited 290 geological evidence and sampling. Geological evidence is sufficient to imply but 291 not verify geological and grade (or quality) continuity. It is based on exploration, 292 sampling, and testing information gathered through appropriate techniques 293 from locations such as outcrops, trenches, pits, workings, and drill holes. An 294 Inferred Mineral Resource has a lower level of confidence than that applying to 295 an Indicated Mineral Resource and must not be converted to a Mineral Reserve. 296 It is reasonably expected that the majority of Inferred Mineral Resources could 297 be upgraded to Indicated Mineral Resources with continued exploration 298 (Clause 24, PMRC 2020 Edition).
- 299 300 3.42.2 Indicated Mineral Resource is that part of a Mineral Resource for which quantity, grade (or quality), densities, shape, and physical characteristics are 301 302 estimated with sufficient confidence to allow the application of Modifying 303 Factors in sufficient detail to support mine planning and evaluation of the economic viability of the Mineral Deposit. Geological evidence is derived from 304 305 adequately detailed and reliable exploration, sampling and testing information 306 gathered through appropriate techniques from locations such as outcrops, 307 trenches, pits, workings, and drill holes, and is sufficient to assume geological 308 and grade (or quality) continuity between points of observation. An Indicated 309 Mineral Resource has a lower level of confidence than that applying to a 310 Measured Mineral Resource and may only be converted to a Probable Mineral 311 Reserve (Clause 25, PMRC 2020).
- 313 3.42.3 Measured Mineral Resource is that part of a Mineral Resource for which quantity, grade (or quality), densities, shape, and physical characteristics are 314 315 estimated with confidence sufficient to allow the application of Modifying Factors to support detailed mine planning and evaluation of the economic 316 317 viability of the Mineral Deposit. Geological evidence is derived from detailed 318 and reliable exploration, sampling and testing information gathered through 319 appropriate techniques from locations such as outcrops, trenches, pits, 320 workings and drill holes and is sufficient to confirm geological and grade or 321 (quality) continuity between points of observation. A Measured Mineral 322 Resource has a higher level of confidence than that applying to an Indicated 323 Mineral Resource. It may be converted to a Proved Mineral Reserve or under 324 certain circumstances to a Probable Mineral Reserve (Clause 26, PMRC 2020). 325
  - **3.43 Mining Project** is the whole Mineral Property or portion(s) of it where Mineral Reserves exist or are being assessed.
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- 329 **3.44 Modifying Factors** are considerations used to convert Mineral Resources to Mineral 330 Reserves. These include, but are not restricted to, mining, processing, metallurgical, 331 infrastructure, economic, marketing, legal, environmental, social, and governmental 332 factors (*Clause 15, PMRC 2020*).
- 3343.45MPSA is the acronym for Mineral Production Sharing Agreement as defined by the335Philippine Mining Act of 1995 (Republic Act No. 7942).
- 337 3.46 **NPV** is the acronym for Net Present Value which is a financial metric.
- 339 3.47 **OPEX** is the acronym for Operating Expenses.

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   3.48 Payback Period is the financial metric that shows the duration between the date of the
   342 initial investment (i.e., project cost) and the date when this investment has been
   343 recovered by cash inflows from the operations of the Mining Project.
- 345 3.49 **PERT CPM** is the acronym for Project Evaluation and Review Technique and Critical Path
   346 Method.
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   3.50 PEZA is the acronym for Philippine Economic Zone Authority, a government agency
   attached to the Department of Trade and Industry to help promote investments in the
   export-oriented manufacturing industry in the country by assisting investors in registering
   and facilitating their business operations and providing tax incentives.
- 353 3.51 **Philippine Mineral Reporting Code Committee (PMRCC)** is a committee that initiated and 354 crafted the PMRC 2020 Edition. It was established on November 22, 2018 by the 355 professional representative organizations of the minerals industry which are the PSEM, 356 the GSP, and the SMEP together with minerals industry-related organizations and bodies 357 such as the PSE, Chamber of Mines of the Philippines (COMP), Philippine Mining and 358 Exploration Association (PMEA), the Philippines-Australia Business Council (PABC), and 359 the Philippine Chamber of Coal Mines (PHILCOAL) (*Clause 1, PMRC 2020*).
- 361 3.52 PIC is the acronym for Professional Identification Card issued by the Professional
   362 Regulation Commission (PRC).
  - 3.53 **PMRC's Governing Principles** are the three (3) principles governing the operation and application of the Philippine Mineral Reporting Code (PMRC). They are as follows -
    - 3.53.1 **Transparency** requires that the reader of a Public Report is provided with sufficient information, the presentation of which is clear and unambiguous, so as to understand the report and not to be misled by this information or by omission of material information that is known to the Accredited Competent Person (ACP).
- 3733.53.2Materiality requires that a Public Report contains all the relevant information374which investors and their professional advisers would reasonably require, and375reasonably expect to find in the report, for the purpose of making a reasoned376and balanced judgment regarding the Exploration Results, Mineral Resources

377 378 379		or Mineral Reserves being reported. Where relevant information is not supplied, an explanation must be provided to justify its exclusion.
379 380 381 382 383		3.53.3 <b>Competence</b> requires that the Public Report be based on work that is the responsibility of suitably qualified and experienced persons who are subject to an enforceable professional code of ethics (the ACP)
384 385 386 387	3.54	<b>Professional Regulation Commission (PRC)</b> is the commission attached to the Philippine Department of Labor and Employment (DOLE) which regulates and supervises the practice of all professionals except lawyers.
388 389 390 391 392	3.55	<b>Professional Representative Organizations</b> refer to national professional organizations in the mining, geosciences, and metallurgical fields, consisting of the Philippine Society of Mining Engineers (PSEM), the Geological Society of the Philippines (GSP), and the Society of Metallurgical Engineers of the Philippines (SMEP).
393 394 395 396	3.56	<b>PTR</b> is the acronym for Professional Tax Receipt which is the proof of payment of the professional tax by professionals to practice their profession. The PTR is issued where the professional's residence or place of work is located.
<ul> <li>397</li> <li>398</li> <li>399</li> <li>400</li> <li>401</li> <li>402</li> <li>403</li> <li>404</li> <li>405</li> <li>406</li> </ul>	3.57	<b>Public Reports</b> are reports prepared for the purpose of informing investors or potential investors and their advisers, on Exploration Results, Exploration Targets, Mineral Resources, Mineral Reserves or metallurgical assessments and design. These include but are not limited to annual and quarterly company reports, media releases, information memoranda, technical papers, website postings, public presentations, and corporate disclosures required to be submitted to both the SEC and PSE, including disclosures of any material fact or event that occurs which would reasonably be expected to affect investors' or potential investors' decision in relation to the company's securities ( <i>Clause 6, PMRC 2020</i> ).
407 408	3.58	<b>QA/QC</b> is the acronym for Quality Assurance/Quality Control.
409 410 411	3.59	<b>Report Date</b> refers to the date when the ACP(s) signs off Disclosures such as Technical Reports
412 413	3.60	<b>RC</b> is the acronym for Reverse Circulation type of drilling.
414 415	3.61	<b>ROI</b> is the acronym for Return on Investment which is a financial metric.
416 417 418	3.62	<b>RPEEE</b> is the acronym for Reasonable Prospects for Eventual Economic Extraction which is a major criterion for Mineral Resources (Clause 23, PMRC 2020).
419 420 421	3.63	<b>SDMP</b> is the acronym for Social Development Management Program as defined by Section 136-A of the DENR DAO No. 2010-13.
422 423 424	3.64	<b>Technical Report</b> is a comprehensive Public Report following the report outlines TR-FORMs 1, 2, and 3 (ANNEX II) prepared to inform investors or potential investors and their advisers on Exploration Results, Exploration Targets, Mineral Resources, Mineral

Reserves, and/or metallurgical assessments and design prepared by ACP(s) and compliant with the PMRC 2020 on an 'if not, why not' basis.

- 3.65 **Technical Studies** are technical and economic studies of the viability of Mineral Resources and/or Mineral Reserves. In order of increasing levels of confidence and comprehensiveness, they are Scoping Study, Pre-Feasibility Study, and Feasibility Study.
  - 3.65.1 **Scoping Study** is an order-of-magnitude technical and economic study of the potential viability of the Mineral Resources in a Mineral Deposit that includes appropriate assessments of realistically assumed Modifying Factors together with any other relevant operational factors that are necessary to demonstrate at the time of reporting that progress to a Pre-Feasibility Study can be reasonably justified (*Clause 43, PMRC 2020*).
- 439 3.65.2 Pre-Feasibility Study is a comprehensive study of a range of options for the technical and economic viability of a Mining Project that has advanced to a 440 stage where a preferred mining method, underground or surface, has been 441 442 established and an effective method of mineral processing has been 443 determined. It includes a financial analysis based on reasonable assumptions 444 on the Modifying Factors and the evaluation of any other relevant factors which 445 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 446 447 reporting. A Pre-Feasibility Study has a lower confidence level than a Feasibility Study (Clause 44, PMRC 2020). 448
- 450 3.65.3 Feasibility Study is a comprehensive technical and economic study of the selected development option for a Mining Project that includes appropriately 451 detailed assessment of applicable Modifying Factors together with any other 452 relevant operational factors and detailed financial analysis that are necessary 453 454 to demonstrate at the time of reporting that extraction is reasonably justified (economically mineable). The results of the study may reasonably serve as the 455 456 basis for a final decision by a proponent or financial institution to proceed with, or finance, the development of the Mining Project. The confidence level of the 457 study will be higher than that of a Pre-Feasibility Study (Clause 45, PMRC 2020). 458
  - 3.64 **TSF** is the acronym for Tailings Storage Facility

## 462 **4.0 DISCLOSURES**

- 4644.1All Public Reports, including Technical Reports, are the responsibility of the Issuer acting<br/>through its Board of Directors. All disclosures of Exploration Results, Exploration Targets,<br/>Mineral Resources, Mineral Reserves and/or metallurgical assessments and design in<br/>Public Reports made by the Issuer on the Mineral Property and material to the Issuer<br/>must be based upon the information prepared by or under the supervision of ACP(s) on<br/>an 'if not, why not' basis. The following information must be submitted to the Exchange<br/>whenever a Disclosure is made:.
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4.1.1 The name, address, and occupation/profession of the ACP(s)

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474	4.1.2	Validity of the PRC License of the ACP(s) – scanned copy of the PRC Professional
475		Identification Card (PIC) showing the PRC Registration No. and expiry date
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477	4.1.3	Validity of the ACP(s)' accreditation – ACP Identification Card or accreditation
478		certificate issued by the relevant professional representative organization
479		showing the expiry date
480		
481	4.1. <mark>4</mark>	The relationship of the ACP(s) to the Issuer (e.g., consultant, whether
482		independent or not independent, employee or holder of a corporate position,
483		holder of shares, options and/or warrants) that the ACP(s) beneficially own, if
484		any, in the Issuer's shares certified by the Issuer's Corporate Secretary
485		
486	4.1.5	The ACP must also disclose other relationships, such as but not limited to:
487		
488		a. being a holder of tenement rights which is the subject of the Disclosure
489		
490		b. landlord-lessee relationship of land and/or infrastructure which has
491		bearing on the Disclosure
492		
493		c. any other employment-related relationship which may have a bearing to
494		the integrity of the Disclosure
495		
496	4.1. <mark>6</mark>	When applicable, the title and date of the Technical Report on which the
497		Disclosure is based
498		
499	4.1. <mark>9</mark>	Prior Written Consent of the ACP(s)
500		
501		a. The ACP(s) must provide their prior written consent to the public filing of
502		the Disclosure including Technical Report (Appendix 3 of the PMRC 2020).
503		
504		b. When an Issuer plans to issue any material information on a Mineral
505		Property referencing a Technical Report which the Issuer had earlier
506		commissioned, the information of which is a deviation and/or in
507		contradiction to the original Technical Report, then the Issuer is required
508		to obtain prior written consent from the ACP(s).
509		
510		c. If there is more than one (1) ACP involved in a Disclosure, the ACPs must
511		state which part of the report was prepared or supervised by them.
512		
513		d. The ACP(s) should state that they have carefully verified the Disclosure
514		being filed, press releases and including management analysis; that they
515		fairly and accurately reflect in the form and context in which it appears,
516		the information embodied in the Disclosure; and that at the time of the
517		Disclosure, to the best of the ACP(s)' knowledge, all technical information
518		that is required to make the Disclosure not misleading, has been included.
519		

520 521 522 523			e. When filing a Disclosure with the Exchange, the Issuer must file the Consent Statement (Appendix 4, PMRC 2020) made by each of the ACPs responsible for preparing or supervising the preparation of each portion of the Disclosure, dated and signed by the ACP(s).
524 525 526 527	4.2		sure should include Data Verification and Data Validation. The following ation must be included:
528 529 530		4.2.1	A statement whether a CP has verified and validated the data disclosed which includes any, but not limited to, the following:
531 532			a. sampling data
533 534			b. analytical data
535 536			c. quality assurance and quality control data
537 538			d. opinions supporting the technical information in the disclosure
539 540 541		4.2.2	Description of how the data was verified and any limitations on the verification process.
541 542 543		4.2.3	Explanation of any failure to verify the data.
544 545	4.3	Disclosu	res of Exploration Results and Exploration Targets
546 547 548		4.3.1	Disclosures of Exploration Results and Exploration Targets should be reported by an ACP-Geologist.
549 550 551 552		4.3.2	Disclosures of Exploration Results and 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 20209.
552 553 554	4.4	Disclos	sures of Mineral Resources and Mineral Reserves
555 556		4.4.1	Disclosures of Mineral Resources should be reported on by an ACP-Geologist.
557 558 559		4.4.2	Disclosures of Mineral Reserves should be reported on by an ACP-Mining Engineer.
560 561 562		4.4.3	Disclosures on metallurgical assessments and design should be reported on by an ACP-Metallurgical Engineer.
562 563 564		4.4.4	The ACP(s) should report Mineral Resources and Mineral Reserves separately.
565 566 567		4.4.5	The ACP-Geologist(s) must not include Inferred Mineral Resources in the other categories of Mineral Resources in disclosing total Mineral Resource since cannot be converted to Mineral Reserves by the ACP-Mining Engineer(s).

568		Inferred Mineral Resources may be included in the list of Mineral Resources but
569		should be labeled as such.
570		
571	4.4.6	Each category of the Mineral Resources and Mineral Reserves disclosed must
572		be reported with the corresponding tonnage (or volume) and grade (or quality).
573		
574	4.4.7	The Cut-off Grades (or Qualities) used for estimating Mineral Resources and
575	4.4.7	Mineral Reserves and their bases must be disclosed.
		Willeral Reserves and their bases must be disclosed.
576		
577	4.4.8	A PFS or FS or LoMP is required in declaring Mineral Reserves.
578		
579	4.4.9	Disclosures of Mineral Resources and/or Mineral Reserves must be in
580		accordance to Clauses 23 to 41 of the PMRC 2020 and consider the list of
581		criteria in Table 1 of the PMRC 2020.
582		
583	4.4.10	If a Mineral Property have Mineral Reserves and/or Mineral Resources, the
584		Issuer must include a Mineral Resources and/or Mineral Reserves statement in
585		its annual report which includes all of the following information (Clause 18,
586		
		PMRC 2020).
587		
588		4.4.10.1 A summary of the results of the Issuer's annual review of its Mineral
589		Resources and Mineral Reserves. An annual review is a
590		comprehensive review undertaken by ACPs of an Issuer's declared
591		Mineral Resources and Mineral Reserves estimates for the purpose of
592		identifying any changes related to those estimates during the
593		previous twelve (12) months and an assessing whether these changes
594		have a material effect on the declared Mineral Resources and Mineral
595		Reserves.
596		
		4.4.10.2. As of the issuer's and of financial year balance date, the issuer's
597		4.4.10.2 As of the Issuer's end of financial year balance date, the Issuer's
598		Mineral Resources and Mineral Reserves in tabular form reported on
599		the following basis:
600		
601		a. By commodity type, including the tonnage (quantity) and grade
602		(quality)
603		
604		b. By Mineral Resource category and Mineral Reserve category, and
605		
606		c. By geographical area based on the materiality of the Mineral
607		Resources and Mineral Reserves to the Issuer
608		
		4.4.10.2 A comparison of the Issuer's Mineral Resources and Mineral Resources
609		4.4.10.3 A comparison of the Issuer's Mineral Resources and Mineral Reserves
610		against that from the previous year on the following basis:
611		
612		4.4.10.3.1 By commodity type, including the tonnage (quantity)
613		and grade (quality)
614		

615			4.4.10.3.2 By geographical area based on the materiality of the
616			Mineral Resource and Ore Reserves to the Issuer
617			
618			4.4.10.4 A summary of the governance arrangement and internal controls that
619			the Issuer has put in place in respect to its estimates of Mineral
620			Resources and Mineral Reserves and the estimation process
621			
622	4.5	Disclosu	res of Environmental, Social, and Governance
623			
624			ironmental, Social, and Governance (ESG) section outlined in TR-FORM 1 and 2
625			II of this IRR) is optional. However, discussion is encouraged since ESG is
626		conside	red part of best corporate practice as espoused by PSE.
627 628	4.6	Drahihit	
628 629	4.0	Pronibit	ed Disclosures
630		4.6.1	Tonnage (or quantity), and grade (or quality) of a mineral or contained metal of
631		4.0.1	a Mineral Deposit not classified according to the Mineral Resource and Mineral
632			Reserve categories stipulated by the PMRC 2020
633			
634		4.6.2	Historical Estimate(s) incorporated in current Mineral Resources or Mineral
635			Reserves estimates unless the following criteria are met:
636			
637			a. The source documents, i.e., technical report(s), of the Historical Estimate
638			are available and the following are known - author(s), title, and date of the
639			said reports; and the Issuer/company who commissioned the said
640			report(s), and
641			
642			b. Complete database is available for adequate Data Verification and Data
643			Validation, including additional exploration/development works such as
644			drilling if considered necessary, in order for the ACP(s) to consider that the
645 646			Historical Estimate(s) used in the current Mineral Resources and/or Mineral Reserves estimates comply with the PMRC 2020.
640 647			Willer al Reserves estimates comply with the Planc 2020.
648			c. Failing to pass the above criteria (a) and (b), the Historical Estimate(s) may
649			be used only as a reference and not part of the current Mineral Resources
650			and/or Mineral Reserves.
651			
652		4.5.3	Disclosures of Exploration Target(s) not in accordance with Clause 20 of the
653			PMRC 2020
654			
655		4.5.4	Disclosures of in situ or in ground valuation, i.e., economic value of Mineral
656			Resources and/or Mineral Reserves, without a Pre-Feasibility or Feasibility
657			Study (Clause 47 of the PMRC 2020)
658			
659		4.5.5	Disclosures of Mineral Resources and Mineral Reserves, and economic value at
660			a Cut-off Grade of zero
661			

662			4.5.6	Inferred Mineral Resources should not be considered in the assessment of
663				economic viability, rendering its presence inside the mine design and the Life-
664				of-Mine Plan (LoMP) as purely incidental and without influence on the
665				declaration of Mineral Reserves (Clause 40, PMRC 2020). A mine design and a
666				LoMP must be economically viable without inclusion of Inferred Mineral
667				Resources in the estimation of Mineral Reserves.
668				
669			4.5.7	Disclosures of Metal Equivalents not in accordance to Clause 46 of the PMRC
670				2020.
671				
672		4.7	Disclos	ures Through Media Release, Information Memorandum, Website Posting, and
673				Presentation
674			i ubiic i	
675			Disclos	ures through media release, information memorandum, website posting, public
676				tation and similar types of Disclosures should be submitted for approval of the
				least two (2) calendar weeks prior to release to the public. If no rejection or
677				
678				n is required by PSE within one (1) week upon application, the Disclosure is
679			deeme	d approved.
680				
681				
682	5.0	TECH	NICAL R	EPORI
683				
684		5.1 E	vents re	quiring a Technical Report:
685				
686			•	pplication for initial listing in the Exchange with Effective Date of the Technical
687			Re	port not more that eighteen (18) months at time of listing application
688				
689				y capital-raising activity conducted in the Exchange, such as Initial Public Offering,
690				llow-on Offering, and Stock Rights Offering with Effective Date of the Technical
691			Re	port not more that eighteen (18) months at time of listing application
692				
693			c. W	hen reporting Mineral Resources and/or Mineral Reserves for the first time
694				
695			d. W	hen there are events and factors that are materially significant, such as capital
696			im	pairment or force majeure that seriously affect the Issuer's ability to pursue its
697			со	rporate business goals in the medium to long-term or there is a material increase
698			or	decrease in the Mineral Resources (Indicated and/or Measured) and/or Mineral
699			Re	serves of the Mineral Property
700				
701		5.2	Genera	l Requirements for the Technical Report
702				
703			5.2.1	The Technical Report should follow the report outline format as detailed in TR-
704				FORMs 1, 2 or 3 (ANNEX II of this IRR) and consider the list of criteria in Table
705				1 of the PMRC 2020 (ANNEXes I and III of this IRR).
706				
707			5.2.2	The Technical Report must be prepared in accordance with the PMRC 2020 and
				this IRR.
708				

710 711		5.2.3	The	Technical Report must be prepared or supervised by ACP(s).		
712		5.2.4	The	ACP(s) shall assume full responsibility for the Technical Report they have		
713		5.2.4		bared or prepared under their supervision.		
714			prep			
715	5.3	Author o	f the	Technical Report		
716	0.0					
717		5.3.1 Th	ne Teo	chnical Report must be prepared by or be under the supervision of one or		
718		0.0.2		e ACPs.		
719						
720		5.3.2	Basi	c qualifications of the ACP(s)		
721		5.5.2	Bash			
722			a.	Possess a valid PRC PIC as registered professional geologist, and/or mining		
723				engineer, and/or metallurgical engineer		
724				ensineer, and or metanorgical engineer		
725			b.	Member of good standing of their respective professional representative		
726				organization (GSP, PSEM or SMEP)		
727						
728			c.	Has minimum of five (5) years relevant experience in the style of		
729				mineralization or type of Mineral Deposit under consideration and to the		
730				activity which that person Is undertaking (Clause 12, PMRC 2020)		
731				activity which that person is undertaking (clause 12, Hwite 2020)		
731			d.	Duly accredited ACP by the proper professional representative		
732				organization (GSP, PSEM or SMEP)		
733						
			0	Decrease a valid Professional Tax Pessint (PTP)		
735			e.	Possess a valid Professional Tax Receipt (PTR)		
736		<b>Г</b> 2 2	16 0 0			
737		5.3.3		specialist professional who is not an ACP is engaged to cover certain facets		
738				ne preparation of the Technical Report, the supervising ACP should take		
739			resp	onsibility for the work of the said professional.		
740		F 2 4		Tack size Department has size added to the mean active ACD(s). The Effective		
741		5.3.4		Technical Report must be signed by the respective ACP(s). The Effective		
742			Date	and Report Date of the Technical Report must be stated.		
743		<b>F 2 F</b>	<b>T</b> 1	Tech deal Decoders at the second deal the ACD(s) are reducible in the second		
744		5.3.5		Technical Report must be prepared by the ACP(s) or under their direct		
745			supe	ervision.		
746						
747			a.	Report on Exploration Results. Exploration Targets and/or Mineral		
748				Resources should be prepared by an ACP-Geologist		
749						
750				Report on the economic assessment and Mineral Reserves should be		
751				prepared by an ACP-Mining Engineer		
752						
753				Report on metallurgical assessments and design must be prepared by an		
754				ACP-Metallurgical Engineer		
755		_				
756	5.4	Preparat	ion of	f a Technical Report		
757						

758 759		5.4.1	A Technical Report must be prepared on the basis of all available technical data as of the Effective Date relevant and material to the Disclosure that it supports.
7 <i>5</i> 9 760			as of the Effective Date relevant and material to the Disclosure that it supports.
760		5.4.2	A Technical Report should include Data Verification and Data Validation
762		J.4.Z	(Section 4.2 of this IRR).
763			
764		5.4.3	The ACP(s), as author(s) of the Technical Report, must complete an on-site
764 765		5.4.5	inspection of the Mineral Property that is the subject of the Technical Report
766			prior to the Issuer filing the Technical Report.
767			
768		5.4.4	The Issuer must diligently keep records of verifiable data such as assay and
769		J.4.4	other analytical certificates, drill core splits, sample rejects, drill core logs and
709			other information referenced in the Technical Report or used as a basis for the
771			Technical Report.
772			
773	5.5	Technical	Report Format
774	5.5	reennea	
775		5.5.1	The Technical Report's format is dependent on the purpose. It can include the
776		5.5.1	Exploration Results, Exploration Targets, Mineral Resources, Mineral Reserves,
777			and/or metallurgical assessments and design on a Mineral Property. TR–FORM
778			1, 2, and 3 (ANNEX II of this IRR) set out specific report outlines and guidelines
779			for the preparation and contents of the Technical Reports.
780			
781		5.5.2	The ACP(s) preparing the Technical Report should follow the numbered
782		0.0.1	headings and sub-headings indicated in <b>bold</b> typeface listed in TR–FORM 1, 2,
783			and 3 (ANNEX II of this IRR). Guidance notes indicated in <i>italic</i> typeface and
784			numbered in roman numerals in lower case ('Romanette') are placed below
785			each heading and subheadings. Additional sub-headings may be created, if
786			deemed necessary. If unique or infrequently used technical terms are required,
787			clear and concise explanations must be included. Headings and subheadings
788			that are not applicable cannot be omitted (Section 5.5.4 of this IRR).
789			
790		5.5.3	Section 5 (Environmental, Social, and Governance) in TR-FORM 1 and 2 in
791			ANNEX II; and Section 9 (Declaration of Exploration Target(s)) are optional
792			sections. If the ACP(s) are reporting Exploration Results only without Mineral
793			Resources as outlined in TR-FORM 1, then "Not Applicable" can be indicated in
794			Section 10 (Estimation of Mineral Resources) of the TR-FORM 1. If Mineral
795			Resources and/or Exploration Target(s) are reported, then the ACP(s) must
796			report Exploration Results outlined in Section 8 of TR-Form 1.
797			
798		5.5.4	Based on the 'if not, why not' requirement, all headings and subheadings listed
799			in TR-FORMs 1, 2 and 3 (ANNEX II of this IRR) and in the relevant sections of
800			Table 1 of the Code must be discussed. If any of the headings and subheadings
801			are not discussed, the ACP(s) must explain why they have not been discussed.
802			
803		5.5.6	Appendices for the Technical Reports shall be as follows –
804			

805			5.56.1	Appendix 1 (Comments on PMRC 2020 Table 1 Assessment and
806				Reporting Criteria) shown in Annex III is mandatory for all Technical
807				Reports based on TR-FORMs 1, 2, and 3 (ANNEX II of this IRR) in
808				compliance of the 'if not, why not' basis of reporting. All criteria in
809				Table 1 of the PMRC 2020 relevant to the pertinent TR-FORM are
810				listed in the middle column under "PMRC 2020 Reporting Criterion"
811				and the location of the discussion covering the criteria in the
812				Technical Report are listed in the adjacent column under
813				"Commentary" either as section headings/subheadings or page
814				number or both. The four (4) leftmost columns indicate which
815				criteria are to be listed in the Appendix 1 of the Technical Report
816				relevant to TR-FORMs 1, 2 or 3, and should not be replicated in the
817				actual Appendix 1 of the Technical Report. With respect to the
818				criteria listed in Section 10 of Appendix 1, they are mandatory only
819				for a coal Mineral Property. Therefore, they are not to be listed for
820				non-coal Mineral Properties.
821				
822			5.5.6.2	Appendix 2 (List of Acronyms) is mandatory for all Technical Reports
823				following the TR-FORMs 1, 2, and 3 outlines for clarity and easy
824				reference of all acronyms used in the Reports.
825				
826			5.5.6.3	Other appendices besides Appendices 1 and 2 can be appended to
827				the Technical Reports at the discretion of the ACP(s).
828				
829	6.0	PENA	ALTIES	
830				
831		6.1		ssuers under the Revised Disclosure Rules shall apply to violations of
832			the PMRC 2020 and	d this IRR.
833		~ ~		
834		6.2		ons with respect to the professional code of ethics by ACP(s) shall be
835			· · · · · · · · · · · · · · · · · · ·	f warranted, penalized by the respective professional representative
836			organization (GSP,	PSEM or SMEP).
837		-		
838	7.0	IKAI	NSITORY PROVISION	
839				
840				nless already submitted prior to the approval, all Issuers are mandated
841				ant Technical Reports on Exploration Results, Exploration Targets,
842 842			sources, and Minera ate of the approval o	al Reserves relevant to their Mineral Properties within two (2) years
843 844	nom	the da	ate of the approval o	
044				

846		ANNEX I			
847					
848	PH	ILIPPINE MINERAL REPORTING CODE			
849		Edition 2020			
850					
851					
852		ANNEX II			
853					
854	GUIDELINES	IN THE PREPARATION OF TECHNICAL REPORTS			
855					
856	-	e intended to provide the form and content of the technical report required			
857		ith the PMRC 2020 Edition including Table 1. The headings (X.) and sub-			
858		X, X.X.X, X.X.X.X) are mandatory sections and sub-sections in the			
859		respectively; while the guidance notes indicated in <i>italic</i> typeface and			
860		n numerals in lower case ('Romanette') are placed below each heading			
861	• • • • • • • • • • • • • • • • • • •	Some topics may not be relevant to the type of Mineral Deposit being			
862 863		te, there may also be topics or features of the project that may be relevant			
863 864	and should be included and which are not listed here. It is the responsibility of the ACP or ACPs to decide on the relevant tonics to be included. The aim is to provide a concise and accurate				
865	to decide on the relevant topics to be included. The aim is to provide a concise and accurat account of the project on an 'if not, why not' basis. TR-FORM 1 provides the format for report				
866		Its, Exploration Targets and/or Mineral Resources estimation, TR-FORM 2,			
867	for economic assessment and Mineral Reserve estimation, and TR-FORM 3, for metallurgic				
868	engineering study and assessment on a Mineral Deposit.				
869	5 5 /	,			
870	TR-FORM 1	OUTLINE OF TECHNICAL REPORT FOR EXPLORATION			
871		<b>RESULTS, EXPLORATION TARGETS AND/OR MINERAL</b>			
872		RESOURCE ESTIMATION			
873					
874	TR-FORM 2	OUTLINE OF TECHNICAL REPORT FOR ECONOMIC			
875		ASSESSMENT AND MINERAL RESERVE ESTIMATION			
876					
877	TR-FORM 3	OUTLINE OF TECHNICAL REPORT FOR A METALLURGICAL			
878		ENGINEERING STUDY AND ASSESSMENT ON A MINERAL			
879		DEPOSIT			
880					
881					
882		ANNEX III			
883					
884	<b>APPENDIX 1 OUTLIN</b>	E OF COMMENTS ON PMRC 2020 TABLE 1 ASSESSMENT			
885		AND REPORTING CRITERIA			
886					
887					

			TR-FORM 1	
DUT	'LINE C	DF TECHN	NICAL REPORT FOR EXPLORATION RESULTS, EXPLORATION TARGETS AND/OR MINERAL RESOURCES ESTIMATION	
				Reference to Table 1 (PMRC 2020)
	TITLE	PAGE		(v)
		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)), effectivity date of the Technical Report, and name of Issuer	
	ACCF	REDITED	COMPETENT PERSON'S CONSENT FORM AND CONSENT	(ii), 9, PMRC 2020
	STAT	EMENT,	AND CERTIFICATES	Appendices 3 & 4
		i.	Attach ACP's Consent Form and Consent Statement(s) as prescribed by Appendix 4 of the PMRC 2020 Attach scanned copy of valid ACP Identification Card or Certificate	
		ii.	of Accreditation of ACP(s) Attach scanned copy of valid PRC Professional Identification Card	
		iii.	(PIC) of ACP(s)	
		iv.	Attach scanned copy of valid Professional Tax Receipt	
		<i>v</i> .	Have this above document notarized including Acknowledgment showing Signature of ACP(s) and date of signing	
	EXEC	UTIVE SL	JMMARY	(vi)
			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	
		i.	understand the essentials of the Technical Report.Must state if the Technical Report is PMRC 2020-compliant and if	
		ii.	the objectives of the Report have been met	
	TA			() ()
	IABL	E OF COI	List the contents of the Technical Report including figures, tables, photographs, and appendices referred in the Report. All figures/tables/photographs/appendices must be cited in the narrative.	<u>(v), (viii)</u>
	INTR	ODUCTIO	 DN	(i), (iii), (x), (xi), 1.1.1, 1.1.2, 1.1.3, 1.2.1, 1.2.2, 1.3.1, 1.4, 9.1.1
	1.1		se and Scope of Work	(i), 1.2.1
		1	State who commissioned the Technical Report and for whom it was	

1.3	P	Provide previous PMRC-compliant Mineral Resources estimates, if any. Historical Estimates, if any, are discussed in Sec. 1.8	
1.9		bublished/unpublished report(s) or personal communication Mineral Resources Estimates (if any)	
		ndicate sources of information (references) by citing	
<u> </u>		Historical Data and Historical Estimates, if available	ļ
	В	Briefly describe essential work done by previous entities including	
		Arrange chronologically significant previous works	
1.7	Previous V		1.4
1.7		Aeasure, Currency, and Foreign Exchange Rates	(ix)
		Report	
		lisclaimer of responsibility on such information in the Technical	
		author of this Technical Report, the ACP(s) may include a	
	-	r ACP(s) reliea on the report, opinion, statement of a legal, environmental, social, governance expert, etc., who is not a co-	
1.6		r f ACP(s) relied on the report, opinion, statement of a legal,	(xi)
10	i. ko Disclaime	<i>xey technical staff, and experts in relation to the Technical Report</i>	(vi)
		Describe briefly the competence and scope of work of each ACP(s),	
1.5	and Other		9.1.1
		tions of Accredited Competent Person(s), Key Technical Staff,	0.1.1
		Report	1.3.1
		especially those having an important bearing on the Technical	
		Provide details of relevant adjacent third-party mineral tenements,	
		Provide general description of the Mineral Property	1.2.2
1.4		Description and Adjacent Properties	1.2.2, 1.3.1
<u> </u>		Attach relevant location map	1.1.3
+		proximity to population center(s) and from the country capital	1.2.2
		Discuss the modes and ease of access to the Mineral Property, the	1 2 2
+		coordinate systems, mountain ranges, etc.)	4.4.4
		country, province(s), municipality(ies), and closest town/city,	1.1.1
		Describe location and accessibility of the Mineral Property	
1.3		of the Mineral Property and Accessibility	1.1.1, 1.1.3, 1.2.2
1.3	1		11111212
		economic, political, and other key risks.	
		evel assessment of relevant technical, environmental, social,	
		egislation, environmental and social context, etc. This is a high-	
		pertinent to the Mineral Property, including relevant applicable	
1.2		Profile (Optional for Mineral Property in the Philippines) Provide brief information relating to the project host country	1.1.2
1.2			1.1.2
		he objectives of the Report have been met	
+		Must state if the Technical Report is PMRC 2020-compliant and if	
		completed	(x)
		by each ACP or the reason why a personal inspection was not	
+		Provide details of the personal inspection on the mineral property	
		nining operation or decommissioning)	
		Feasibility, or Feasibility Study, Life-of-Mine plan for an ongoing	
		preliminary sampling, advanced exploration, Scoping, Pre-	(1), 1.2.1
1	<i>ii. B</i>	Briefly describe the purpose and scope of work (i.e., whether in	(i), 1.2.1

	2.1	Descrip	tion of Mineral Rights	1.5.1
			Provide location of the Mineral Property - barangay, municipality,	
		i.	province, and region	1.1.1
			Include tenement map with technical descriptions of the	
			boundaries as per c <b>oordinate</b> system used by the relevant	
			regulatory agency plus a topographic map of the tenement if	
		ii.	necessary	1.1.3
			State the type of mineral agreement, 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),	
		iii.	tenement number(s), and area coverage in hectares	1.5.1
				1.5.1, 1.5.2, 1.5.3,
	2.2	History	and Current Status of Mineral Rights	1.5.5
			State in chronological order the history of the mineral rights,	
			changes in official designations, agreements, companies involved,	
		i.	significant legal and technical events with dates	
			State current holders of mineral rights specifying the % ownership /	
		ii.	economic interest in the Mineral Property	
		iii.	State validity period of current mineral rights	
			Discuss agreements with respect to mineral rights including	
		iv.	deed(s) of assignment, if any	
	2.3	Royalti	es, Receivables, and Liabilities	1.5.4, 1.6,1.7
			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	
		i.	People, local government, and others	1.6.1
			Discuss receivables and payable sums to the Issuer and mineral	
		ii.	rights holder which may include excise taxes	
			Discuss any liabilities, including rehabilitation guarantees that are	
		iii.	pertinent to the project	1.7.1
			Describe the rehabilitation liability, including, but not limited to,	
		iv.	legislative requirements, assumptions, and limitations	1.7.1
		10.		1.7.1
3.	CEO		AL AND ENVIRONMENTAL FEATURES	1.2.2
5.				1.2.2
	3.1	Physica	graphy, Climate, and Vegetation	
			<i>Describe the topography, physiography, drainage and vegetation, the climate, known associated climatic and seismic risks and the</i>	
			length of the operating period and to the extent relevant to the	
		i.	Mineral Property	1.2.2
				1.2.2
	2.2	ii.	Attach relevant map(s) if appropriate	
	3.2		se and Infrastructures	
		i.	Describe current land use	
			Discuss the sufficiency of surface rights and access for	
			exploration/mining operations, including the availability and	
			sources of power, water, and potential mining infrastructure such	
			as tailings storage areas, waste disposal areas, heap leach pad	
			areas, processing plant sites, etc. (noting any conditions that may	1 7 7
		ii.	adversely affect possible exploration/mining activities)	1.2.2
1	3.3	Socio-E	conomic Environment	

i.that overlap, and it is often these inter-relationships that create risk events (threats and opportunities). ESG includes all aspects of sustainability.CRIRSCO Committei.ESG factors can affect stakeholders, investor and corporate assessments and decision-making, employees, and contractors, obtaining and maintaining regulatory permits, human rights, the receiving environment, global impacts (such as climate change) and a social license to operate from host communities including land users/owners.Modified CRIRSCO Committe5.1Environmental AspectsState or describe the corporate environmental policy, International Organization for Standardization (ISO)/Environmental Management System (EMS) certifications, compliance, environmental manual, land and biodiversity protection, energy consumption and management, water use and discharge, air protection, waste management, mineral waste management, climate-related risk and opportunities, etc.Image: CRIRSCO Committe	ies, presence of any, as well as not limited to te of Indigenous ion of the joining the adverse impact	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.       ethnicity and culture         Sources of income/livelihood of population, presence of Indigenous People, municipal class(es) to provide an appreciation of the existing socio-economic environment         Environmental Features         Describe the environmental features within and adjoining the Mineral Property including those that may have an adverse impact to exploration and future mining operations         i.       to exploration and future mining operations	3.4
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i.       start of production or for the last several years         5.       ENVIRONMENTAL, SOCIAL, AND GOVERNANCE (Optional)       5.7         5.       ESG is the acronym referring to Environmental, Social, and Governance. Each of these areas are unique disciplines, however there are many aspects that overlap, and it is often these inter-relationships that create risk events (threats and opportunities). ESG includes all aspects of sustainability.       Modified CRIRSCO Committe         i.       (threats and opportunities). ESG includes all aspects of sustainability.       Modified CRIRSCO Committe         i.       ESG factors can affect stakeholders, investor and corporate assessments and decision-making, employees, and contractors, obtaining and maintaining regulatory permits, human rights, the receiving environment, global impacts (such as climate change) and a social license to operate from host communities including land users/owners.       Modified CRIRSCO Committe         5.1       Environmental Aspects       State or describe the corporate environmental policy, International Organization for Standardization (ISO)/Environmental Management System (EMS) certifications, compliance, environmental manual, land and biodiversity protection, energy consumption and management, water use and discharge, air protection, waste management, mineral waste management, i.	l and sold since		
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i.       (threats and opportunities). ESG includes all aspects of sustainability.       Committe         ESG factors can affect stakeholders, investor and corporate assessments and decision-making, employees, and contractors, obtaining and maintaining regulatory permits, human rights, the receiving environment, global impacts (such as climate change) and a social license to operate from host communities including land users/owners.       Modified CRIRSCO Committe         5.1       Environmental Aspects       State or describe the corporate environmental policy, International Organization for Standardization (ISO)/Environmental Management System (EMS) certifications, compliance, environmental manual, land and biodiversity protection, energy consumption and management, water use and discharge, air protection, waste management, mineral waste management, climate-related risk and opportunities, etc.			
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global impacts (such as climate change) and a social license to operate from host communities including land users/owners.       CRIRSCO Committee communities including land users/owners.         5.1       Environmental Aspects       State or describe the corporate environmental policy, International Organization for Standardization (ISO)/Environmental Management System (EMS) certifications, compliance, environmental manual, land and biodiversity protection, energy consumption and management, water use and discharge, air protection, waste management, mineral waste management, i.         i.       climate-related risk and opportunities, etc.	-		
ii.       host communities including land users/owners.       Committee Commi			
5.1       Environmental Aspects         State or describe the corporate environmental policy, International Organization for Standardization (ISO)/Environmental Management System (EMS) certifications, compliance, environmental manual, land and biodiversity protection, energy consumption and management, water use and discharge, air protection, waste management, mineral waste management, i.         i.       i.			
State or describe the corporate environmental policy, International         Organization for Standardization (ISO)/Environmental         Management System (EMS) certifications, compliance,         environmental manual, land and biodiversity protection, energy         consumption and management, water use and discharge, air         protection, waste management, mineral waste management,         i.	Committee		ii.
Organization for Standardization (ISO)/Environmental Management System (EMS) certifications, compliance, environmental manual, land and biodiversity protection, energy consumption and management, water use and discharge, air protection, waste management, mineral waste management, i. climate-related risk and opportunities, etc.		Environmental Aspects	5.1
Management System (EMS) certifications, compliance, environmental manual, land and biodiversity protection, energy consumption and management, water use and discharge, air protection, waste management, mineral waste management, i.i.climate-related risk and opportunities, etc.	y, International	State or describe the corporate environmental policy, International	
environmental manual, land and biodiversity protection, energy consumption and management, water use and discharge, air protection, waste management, mineral waste management, i. climate-related risk and opportunities, etc.	ntal	Organization for Standardization (ISO)/Environmental	
<ul> <li>consumption and management, water use and discharge, air protection, waste management, mineral waste management,</li> <li>i. climate-related risk and opportunities, etc.</li> </ul>	nce,	Management System (EMS) certifications, compliance,	
<i>protection, waste management, mineral waste management,</i> <i>i. climate-related risk and opportunities, etc.</i>	ection, energy	environmental manual, land and biodiversity protection, energy	
i. climate-related risk and opportunities, etc.	charge, air	consumption and management, water use and discharge, air	
	inagement,	protection, waste management, mineral waste management,	
E 2 Social Acports		<i>i. climate-related risk and opportunities, etc.</i>	
5.2 Social Aspects		Social Aspects	5.2
State or describe the community programs such as educational	educational	State or describe the community programs such as educational	
support, entrepreneurship, and health and wellness, promoting	s, promoting	support, entrepreneurship, and health and wellness, promoting	
development for indian over a could see a love welfare evelopment		development for indigenous people, employee welfare such as	
aevelopment for inalgenous people, employee welfare such as	fare such as	diversity training and benefits, freedom of association and	
			1
	tion and		
diversity training and benefits, freedom of association and	tion and	collective bargaining, and workplace health and safety policies,	
<ul> <li>diversity training and benefits, freedom of association and collective bargaining, and workplace health and safety policies, i.</li> <li>programs, performance assessment, etc.</li> </ul>	tion and	<i>collective bargaining, and workplace health and safety policies,</i> <i>i. programs, performance assessment, etc.</i>	5.3
diversity training and benefits, freedom of association and collective bargaining, and workplace health and safety policies, programs, performance assessment, etc.5.3Governance Aspects	tion and fety policies,	<ul> <li>collective bargaining, and workplace health and safety policies, programs, performance assessment, etc.</li> <li>Governance Aspects</li> </ul>	5.3
diversity training and benefits, freedom of association and collective bargaining, and workplace health and safety policies, programs, performance assessment, etc.         5.3       Governmee Aspects         State or describe the corporate governance statement, vision,	tion and fety policies, ent, vision,	i.       collective bargaining, and workplace health and safety policies, programs, performance assessment, etc.         i.       Government Aspects         i.       State or describe the corporate governance statement, vision,	5.3
diversity training and benefits, freedom of association and collective bargaining, and workplace health and safety policies, programs, performance assessment, etc.5.3Governance Aspects	tion and fety policies, ent, vision, vernance	i.       collective bargaining, and workplace health and safety policies, programs, performance assessment, etc.         Governance Aspects         State or describe the corporate governance statement, vision, mission, and core values, governance structure, governance	5.3
State or describe the community programs such as educational	charge, air nagement, educational	consumption and management, water use and discharge, air protection, waste management, mineral waste management, climate-related risk and opportunities, etc.         Social Aspects         State or describe the community programs such as educational	5.2

6.	GEO	LOGICAL	SETTING	2.1
	6.1	Region	al Geology	2.1.1
		6.1.1	Tectonic Setting	
			Discuss the regional tectonic setting (both geological and	
		<i>i</i> .	structural) where the Mineral Property is located	
		ii.	Attach tectonic map	
		6.1.2	Regional Structures	
			Discuss the geological structures on a regional and district-wide	
		i.	scale	
		ii.	Attach relevant structural map	
		6.1.3	Regional Stratigraphy	
		i.	Characterize the rock formations and lithological distribution	
		ii.	Attach relevant geological map	
		iii.	Attach relevant geological section(s), if any	
		iv.	Describe the geological relationships among rock formations	
		6.1.4	Prospects and/or Deposits in the Region	
			Briefly discuss the mineralization location(s) and general	
	ļ	i.	description	
	6.2		I Property Geology	2.1.2
		6.2.1	Local Rock Units	
			Describe the Rock Units, their composition, and their geological	
		i.	relationships	
			Discuss geological evolution / cross-cutting relationships as to	
			provenance, depositional, deformation, extrusive and/or intrusive	
	-	ii.	events	
			Discuss local stratigraphy - lithological definition, extent and	
		iii.	correlation with regional rock formations, stratigraphic column	
		iv.	Briefly discuss petrological studies, if any	
			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	
		<i>v</i> .	and/or metamorphic features)	
		v. vi.	Discuss age dating, if any	
	1	6.2.2	Local Structures	
			Describe the various geological structures and their trends, e.g.,	
			lineaments, faults, fracture pattern, bedding, folds, unconformities,	
		<i>i</i> .	etc.	
			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	
		ii.	deposit	
			Discuss supportive structural study(ies) such as stereonets, rose	
		iii.	diagram, oriented drill core data, etc., if any	
•	MIN	ERALIZAT	ION IN THE MINERAL PROPERTY	2.1
	7.1	Minera	l Deposit Type	2.12, 2.1.3
			State the Mineral Deposit type(s) exhibited in the Mineral Property	
		<i>i</i> .	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.	
			Provide an overview of the Mineral Deposit type(s) in the Mineral	
		ii.	Property	
	7.2			212215216
	7.2	Style 0	f Mineralization	2.1.2, 2.1.5, 2.1.6
			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	
		i.	illustrated in surface map, sections and/or level plans	
		ii.	Discuss the ore/gangue mineralogy, ore textures	
			Briefly discuss petrological and mineralogical studies such as	
			petrographic study, mineragraphic study, scanning electron	
			microscope (SEM) imaging/microprobe analysis, fluid inclusion,	
		iii.	isotopic studies, etc., if any	
	7.3	Wall Re	ock Alteration, Zoning, and Paragenesis	2.1.5
		<i>i</i> .	Discuss wall rock alteration types and mineralogy	
			Discuss briefly wall rock alteration studies done - petrography, X-	
			ray diffraction (XRD), spectral mapping/measurements, magnetic	
		ii.	susceptibility measurements, etc.	
			Discuss spatial, temporal, and genetic association of wall rock	
			alteration with mineralization (e.g., pre-, syn-, late- and/or post-	
		iii.	mineralization), element grade levels and patterns	
	7.4	Localiza	ation of the Deposit and Continuity of Mineralization	2.1.6
			Discuss mineralization controls - e.g., structural, lithological,	
			supergene oxidation / enrichment, development of "ore shoots",	
		i.	etc.	
			Discuss geometry of the Mineral Deposit(s) - Length, width, depth,	
		ii.	and shape of mineralization	
	7.5	Superg	ene Effects	
-			Describe the supergene effect that results to oxide, transitional,	
		i.	and sulfide zones in the Mineral Deposit(s), if any	
				3.1, 3.2, 3.3., 3.4,
8.	EXPL	ORATION	I RESULTS	3.5, 3.6, 3.7
	8.1		ical Work	
	0.1	000.08	Briefly discuss geological data generated from mapping and	
		i.	surface/sub-surface sampling	
		ii.	Provide geological map, sections, and level plans	
		iii.	Provide sample location map, sections, and level plans	
	8.2		ampling Results	3.3.1
-	0.2			5.5.1
		í. 	Summarize float rock sampling results	
		<i>ii.</i>	Summarize outcrop sampling results	
		iii.	Summarize grab and rock chip sampling results	
		iv.	Summarize channel sampling results	
		<i>v</i> .	Summarize trench sampling results	
		vi.	Summarize test pit sampling results	
		vii.	Summarize underground sampling results	

	8.6.1	Type of Drilling Program	3.2.1, 3.2.4, 3.2.5
8.6	Drilling	and Sampling	3.2
	vii.	Relate remote sensing findings to geology and mineralization	
	vi.	Describe remote sensing features with use of maps	
	<i>v</i> .	Describe the data processing and interpretative tools used	
	iv.	Describe how it was carried out (design of stations with respect to mineralization trend)	
	iii.	parameters adopted	
		Describe equipment used, its limitations and the survey	
	ii.	consultant or an in-house staff was engaged in the conduct of the remote sensing survey(s)	
	i.	Describe remote sensing method(s) used and objective of the survey(s) Describe whether a remote sensing contractor, independent	
8.5	Kemote	e Sensing Results	3.3.1
0 5	viii.	Relate geophysical findings to geology and mineralization	221
	vii.	sections, and level plans	
	V / .	Describe geophysical anomalies detected with use of maps,	
	v. vi.	Describe the data processing and interpretative tools used	
	iv. v.	Describe location method(s) of survey grid or tracks	
		Describe how it was carried out (design of stations with respect to mineralization trend)	
	iii.	Describe equipment used, its limitations, and the survey parameters adopted	
	ii.	geophysical survey	
		consultant or in-house staff was involved in the conduct of the	
		Describe whether a geophysical contractor, independent	
	i.	Describe geophysical method(s) used and objective of the survey(s)	
8.4		vsical Survey	3.3.1
	ix.	Relate geochemical findings to geology and mineralization	
	vii. viii.	related to mineralization Describe geochemical anomalies detected with use of maps	
		Describe synthesis and interpretative techniques (for single and multi-element) to bring out significant geochemical features	
	vi.	Define background, threshold, and anomaly levels for the elements determined	
	<i>v</i> .	State detection limits of analytical method(s)	
	iv.	State the Quality Assurance/Quality Control measures employed	
	iii.	State laboratory(ies) utilized	
	ii.	Describe sampling and analytical methods employed	
0.0	i.	Describe geochemical survey type - drainage, soil, rock, etc.	0.0.1
8.3		emical Survey	3.3.1
	ix.	Provide sample location map(s)	
	viii.	Summarize petrological, mineralogical, paleontological, and other rock/mineral-related studies	

	8.7.1	Sample Preparation and Analysis	3.4
8.7	Sample	Preparation, Analysis, and Security	3.4, 3.5, 3.6
	vi.	arising <b>from</b> , but not limited, to the aforementioned factors.	3.3.7
		recovery and introduction of sampling biases or contamination	
		sampled wet or dry; the impact of water table or flow rates on	
		was riffled, tube sampled, rotary split, etc.; whether it was	
		analysis. For non-core sampling, state, e.g., whether the sample	
		<i>Describe</i> the cutting of drill core samples, e.g., whether split or sawn and whether quarter, half or full core was submitted for	
	<i>v</i> .	fine/coarse material.	3.3.6
		sample bias may have occurred due to preferential loss/gain of	
		relationship exists between recovery and grade; and whether	
		ensure representative nature of the samples; whether a	
		and the results; measures taken to maximize sample recovery and	
		Describe the method of recording and assessing sample recoveries	
	iv.	samples (e.g., core, sample reject, etc.)	3.3.5
		Describe the Issuer's retention policy and storage of physical	
	iii.	lengths if the intersection angle is not known	3.3.4
		Mineral Deposit type, the intersection angle, and the downhole	
		to the drill hole angle (if known), the orientation of sampling to achieve unbiased sampling of possible structures, considering the	
		State the nature of the geometry of the mineralization with respect	
	ii.	selection, and collection methods	3.3.3
		geo-metallurgical characteristics, etc.), sample type, sample-size	
		Describe each data set (e.g., geology, grade, bulk density, quality,	
	i.	sampled, and if any composite sampling was undeertaken	3.3.1, 3.3.2
		appropriate to the grain size of the mineralization/material being	
		representativeness of samples, whether sample sizes are	
		processes, including sub-sampling stages to maximize	
		Describe the nature and quality of sampling, and sampling	
	8.6.3	Drill Sampling Method, Collection, Capture, and Storage	3.2.1
	ii.	use of drill core photography (or trench, channel, etc.)	3.2.3
	i.	State the nature of logging (qualitative or quantitative) and the	3.2.2
	i	support appropriate Mineral Resources estimation, mining studies, and metallurgical studies	3.2.2
		mass characterization relative to the level of detail required to	
		diameter size, core recovery, and geotechnical logging for rock	
		wall rock alteration, mineralization, etc.), drill diameter size, drill	
		Describe geological logging (lithological, weathering, structure,	
	8.6.2	Drill Logging Method	3.2.2. 3.2.3
	iv.	Provide drill hole location map	
	iii.	total length and percentage of the relevant intersections logged	3.2.4
		Discuss drill site spacing, depth of drilling, number of drillholes, the	
	ii.	accuracies	3.2.5
		location, drill orientation, and downhole surveys and their	
	<i>i</i> .	etc.) Discuss methodology and equipment used in the drill collar	
		standard tube, whether core is oriented and if so, by what method,	
		contractor(s), drilling equipment, drill diameter size(s), triple or	
		hammer, rotary air blast, auger, etc.) and details (e.g., drilling	

			]
		State the identity of the sample preparation and analytical	
		laboratories and their accreditation status (in-house, contracted or	
		commercial). If from a non-accredited laboratory, discuss steps	
		taken by the Issuer to ensure the results are of an acceptable	
	i.	quality.	3.4.1
		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,	
	ii.	granulometry, mass balance, etc.)	3.4.3
		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	
	iii.	whether the extraction techniques /are partial or total.	3.4.2
	8.7.2	Sample Governance	3.5
		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, internal and external QA/QC,	
		and any other factors that may have resulted in or identified	
	i.	sample bias	3.5.1
		Discuss the measures taken to ensure sample security and the	
	ii.	Chain of Custody	3.5.2
	п.	Discuss the validation procedures used to ensure the integrity of	5.5.2
		the data, e.g., transportation, input or other errors, between its	
		initial collection and its future use for modeling (e.g., geology,	
	iii.	grade, bulk density, etc.)	3.5.3
		Discuss the audit process and frequency (including dates of these	5.5.5
	iv.	audits) and disclose any material risks identified	3.5.4
	8.7.3	Quality Assurance/Quality Control (QA/QC)	3.6
		Discuss measures taken to ensure sample representativeness and	
	i.	the appropriate calibration of any measurement tools or systems	
		Discuss the verification techniques (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	
	ii.	assaying, inter-laboratory audits, etc.	
		<i>Cite QA/QC procedures used to check if databases augmented with</i>	
		'new' data are comparable to previous versions containing 'old'	
	iii.	data	
		Statement of the ACP-Geologist(s) on the Quality of Sample	
	8.7.4	Security, Preparation, Analysis, and Data Validation	3.4, 3.5, 3.6
8.	8 Bulk De	ensity Measurements	3.7
		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,	
	i.	caliper method, sand cone method, test pitting, etc.)	3.7.1
		Provide preliminary estimates or basis of assumptions made for	
	ii.	bulk density	3.7.2
		Describe measurement of bulk density for bulk material using	
	iii.	methods that adequately account for void spaces (vugs, porosity,	3.7.4
	•		

		etc.), moisture, and differences between rock and alteratio	n 70 noc
		within the Mineral Deposit(s)	11 zones
		Discuss the representativeness of bulk density figure(s) use	pd in the
		<i>iv.</i> Mineral Resources estimate, preferably with statistical bas	
	8.9	Bulk Sampling and/or Trial Mining	3.8
	0.0	<i>i.</i> Describe the location of the individual samples (including n	
		Describe the size of samples, spacing/density of samples red	
		and whether sample sizes and distribution are appropriate	
		ii. grain size of the material being sampled	3.8.2
		iii. Discuss the method of mining and treatment	3.8.3
		Discuss the degree to which the samples are representative	
		various types and styles of mineralization and the Mineral	-
		iv. as a whole	3.8.4
	8.10	Geodetic and Topographical Survey	
		Discuss the scope and methodology, survey scale and accu	iracy,
		i. and surveying equipment (brand and model) used	
		ii. Discuss the limitations, if any	
9.	DECL	ARATION OF EXPLORATION TARGET(S) (Optional)	
		Provide a statement or estimate of the Exploration Target(s) in a de	efined
		geological setting where the statement or estimate, quoted as a ra	nge of
		tonnage (or quantity) and a range of grade (or quality) relates to	
		mineralization for which there has been insufficient exploration to e	stimate
	i.	a Mineral Resource	
		Provide a detailed explanation of the basis for the statement of Expl	
		Target(s), must specifically discuss the geological setting, the explo	
		strategy, and exploration activity already completed and the presen	
		lack of the following attributes: mineralized outcrops and assays, s	-
		geochemical sampling results, surface and subsurface geophysical	survey
	ii.	results, and drill holes, test pits, and underground workings Provide the proposed exploration activities designed to test the vali	idity of
		the Exploration Target(s) which must be detailed and the timefram	
	iii	which those activities are expected to be completed must be specifi	
		All disclosures of the Exploration Target(s) must clarify whether the	
		Exploration Target(s) is based on actual Exploration Results or on pr	
		exploration programs. Where the statement of Exploration Target	-
		includes information relating to ranges of tonnage (or quantity) an	-
		(or quality), these must be represented as approximations. The expl	-
		text must include a description of the process used to determine the	e grade
	iv.	and tonnage ranges to describe the Exploration Target.	
10.	ESTIN	AATION OF MINERAL RESOURCES	4
	10.1	Mineral Deposit Model and Interpretation	4.1
		Discuss the nature, detail, and reliability of geological info	rmation
		with which lithological, structural, mineralogical, alteration	
		other geological, geotechnical, and geo-metallurgical	
		<i>i.</i> characteristics were recorded	4.1.1

	ii.	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.Include a discussion on geological discounts (e.g., magnitude, per reef, domain, etc.) applied in the model, whether applied to	4.1.2
		mineralized and/or unmineralized material (e.g., faults, dikes, etc.) State 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	4.1.6
	iv. v.	Exploration Target or Mineral DepositInclude geological data that have material influence on the estimated quantity and quality of the Mineral Resources	4.1.3 4.1.4
	vi.	Consider alternative interpretations or models, <b>if</b> any, and their possible effect (or potential risk) if any, on the Mineral Resources estimate	4.1.5
10.	2 Databa	se and Software Used in the Estimation of Mineral Resources	
		Describe current database, including validated Historical	
	<i>i.</i>	Estimates, if any, with stated cut-off date	
	ii.	State type of sample database - core, RC, and/or trench samples	
		Discuss survey data of samples including accuracy of drill collar	
	<i>iii.</i>	location, drill orientation, and downhole surveys	
	iv.	Discuss assay data	
	<i>v</i> .	Discuss bulk density data	
		Describe any relevant specialized computer program (software)	
	vi.	used (with the version number) together with the parameters used	4.2.4
10.	3 Databa	ase Integrity, Verification, and Validation	4.2.5
	i.	Discuss the processes of checking and validation used to ensure the integrity of all data used in the Mineral Resources estimate, the comparison of model information to sample data and use of reconciliation data, and whether the Mineral Resources estimate takes into account such information	4.2.5
	-		4.2.5
10	ii. A Pasic S	State limitations, if any	121
10.	+ Dasic S	tatistical Parameters Provide basic statistical parameters of the raw data - mean,	4.2.1
		median, minimum, maximum, standard deviation, coefficient of	
	i.	variation, histograms, normal or lognormal population(s), etc.	
10.		al Resource Estimation and Modeling Methodology	4.2
		Describe in detail the Mineral Resources Estimation and Modeling	
		methodology and assumptions used - (a) conventional methods,	
		e.g., triangulation, polygonal, cross-sectional, estimation by panels	
		(blocking), inverse distance weighting, nearest neighbor method,	
	i.	etc. or (b) geostatistical methods, e.g., kriging	4.2.1
		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	
	ii.	units.	4.2.1

		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	
	iii.	points.	4.2.2
		<i>Provide the assumptions and justification of correlations made</i>	
	iv.	between variables	4.2.3
		Describe any relevant specialized computer program (software)	
	ν.	used (with the version number) together with the parameters used.	4.2.4
		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	
	vi.	of such information.	4.2.5
		State the assumptions made regarding the estimation of any co-	
		products, by-products or deleterious elements.	426
	vii.		4.2.6
	viii.	State Cut-off Grade(s) used in the Mineral Resources estimation	4.2.2
10.6		able Prospects for Eventual Economic Extraction (RPEEE)	4.3
	10.6.1	Geological Parameters	4.3.1
		Discuss the geological parameters including, but not limited to,	
		volume/tonnage, grade/quality estimates, Cut-off Grade(s), strip	
	<i>i</i> .	ratios, upper- and lower- screen sizes	
	10.6.2	Engineering Parameters	4.3.2
		Discuss the engineering parameters, including mining method,	
		processing, geotechnical, hydrogeological, and metallurgical	
		parameters, including assumptions made to mitigate the effects of	
	i.	deleterious elements	
	10.6.3	Dilution and Mining Recovery	4.3.2
		Discuss dilution and mining recovery factors that might be	
	i.	applicable to convert Mineral Resources to Mineral Reserves	
			422422
	10.6.4	Infrastructures	4.3.3, 1.2.2
		Discuss the infrastructures including, but not limited, to power,	
	10.6.4 i.	<i>Discuss the infrastructures including, but not limited, to power, water, and site access</i>	4.3.3, 1.2.2 4.3.3
	i.	Discuss the infrastructures including, but not limited, to power, water, and site access Legal, Government, Permitting and Licensing, and Statutory	4.3.3
		Discuss the infrastructures including, but not limited, to power, water, and site access Legal, Government, Permitting and Licensing, and Statutory Parameters	
	i.	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and	4.3.3
	i.	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that	4.3.3
	i.	Discuss the infrastructures including, but not limited, to power, water, and site access Legal, Government, Permitting and Licensing, and Statutory Parameters Discuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if any	4.3.3
	i. <b>10.6.5</b>	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that	4.3.3
	і. <b>10.6.5</b> і.	Discuss the infrastructures including, but not limited, to power, water, and site access Legal, Government, Permitting and Licensing, and Statutory Parameters Discuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if any	4.3.3 4.3.4
	і. <b>10.6.5</b> і.	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if anyEnvironmental and Social Parameters	4.3.3 4.3.4
	і. <b>10.6.5</b> і.	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if anyEnvironmental and Social Parameters Discuss the sufficiency of surface rights for exploration/mining	4.3.3 4.3.4
	<i>i.</i> <b>10.6.5</b> <i>i.</i> <b>10.6.6</b>	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if anyEnvironmental and Social ParametersDiscuss the sufficiency of surface rights for exploration/mining operations including the availability and sources of	4.3.3 4.3.4 4.3.5
	i. <b>10.6.5</b> <i>i.</i> <b>10.6.6</b> <i>i.</i>	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if anyEnvironmental and Social ParametersDiscuss the sufficiency of surface rights for exploration/mining operations including the availability and sources of exploration/mining personnelMarketing Parameters	4.3.3 4.3.4 4.3.5 1.2.2
	i. <b>10.6.5</b> <i>i.</i> <b>10.6.6</b> <i>i.</i>	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if anyEnvironmental and Social ParametersDiscuss the sufficiency of surface rights for exploration/mining operations including the availability and sources of exploration/mining personnelMarketing ParametersDiscuss the marketing issues such as commodity prices or	4.3.3 4.3.4 4.3.5 1.2.2
	i. <b>10.6.5</b> <i>i.</i> <b>10.6.6</b> <i>i.</i>	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if anyEnvironmental and Social ParametersDiscuss the sufficiency of surface rights for exploration/mining operations including the availability and sources of exploration/mining personnelMarketing ParametersDiscuss the marketing issues such as commodity prices or customer's specifications, and sales volume expectations used for	4.3.3 4.3.4 4.3.5 1.2.2
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	i. <b>10.6.5</b> <i>i.</i> <b>10.6.6</b> <i>i.</i>	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if anyEnvironmental and Social ParametersDiscuss the sufficiency of surface rights for exploration/mining operations including the availability and sources of exploration/mining personnelMarketing ParametersDiscuss 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	4.3.3 4.3.4 4.3.5 1.2.2
	i. <b>10.6.5</b> <i>i.</i> <b>10.6.6</b> <i>i.</i>	Discuss the infrastructures including, but not limited, to power, water, and site accessLegal, Government, Permitting and Licensing, and Statutory ParametersDiscuss the legal, government, permitting and licensing, and statutory status of the Mineral Property and material issues that need to be addressed, if anyEnvironmental and Social ParametersDiscuss the sufficiency of surface rights for exploration/mining operations including the availability and sources of exploration/mining personnelMarketing ParametersDiscuss 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	4.3.3 4.3.4 4.3.5 1.2.2

	10.6.8	Economic Assumptions and Parameters	4.3.7
	l l	Discuss the economic assumptions and parameters Including, but	
		not limited to commodity prices, sales volume, and potential	
	i.	capital and operating costs	
	10.6.9	Material Risks	4.3.8
		Discuss risks of material significance, e.g., sovereign, legal,	
		environmental, social license to operate, climatic, seismic,	
	i.	technological, etc.	
10.7	Minera	l Resource Categories	4.4, 4.5
		Discuss the criteria and methods used as the basis for the	,
		classification of the Mineral Resources into varying confidence	
	i.	categories	4.4
		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	
	ĺ	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	
	ii.	compared with production data, where available.	4.5
			4.5
10.8	Minera	l Resources Estimates	4.0.4, 4.0.5, 4.0.0 4.2.5
10.0	iiiiicia	Tabulate the Indicated and Measured Mineral Resources	r.2.5
		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,	
	ſ		
	· · · · ·		
	;	pillars, or other sources. The Cut-off Grades/quality(ies) for	161
	i.	estimating Mineral Resources of any category must be stated.	4.6.4
	i.	estimating Mineral Resources of any category must be stated. If there is a previous Mineral Resources estimate, provide a	4.6.4
	i.	estimating Mineral Resources of any category must be stated. If there is a previous Mineral Resources estimate, provide a comparison with the current Mineral Resources estimate, with an	4.6.4
		estimating Mineral Resources of any category must be stated. 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	
	i. ii.	estimating Mineral Resources of any category must be stated. 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.	4.6.4 4.6.5
		estimating Mineral Resources of any category must be stated. 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. Discuss the processes of checking and validation, the comparison	
		estimating Mineral Resources of any category must be stated. 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. Discuss the processes of checking and validation, the comparison of model information with sample data and use of reconciliation	
		estimating Mineral Resources of any category must be stated. 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. 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	
		estimating Mineral Resources of any category must be stated. 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. 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	
		estimating Mineral Resources of any category must be stated. 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. 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	
	ii.	estimating Mineral Resources of any category must be stated. 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. 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	4.6.5
		estimating Mineral Resources of any category must be stated. 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. 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	
	ii.	estimating Mineral Resources of any category must be stated. 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. 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	4.6.5
	ii.	estimating Mineral Resources of any category must be stated. 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. 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	4.6.5
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	ii. iii.	estimating Mineral Resources of any category must be stated. 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. 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 Discuss the basis for the Mineral Resources estimate and if not 100% owned by the Issuer, the attributable percentage relevant to	4.6.5 4.2.5
DISCL	ii. iii. iv.	estimating Mineral Resources of any category must be stated. 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. 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 Discuss the basis for the Mineral Resources estimate and if not 100% owned by the Issuer, the attributable percentage relevant to	4.6.5 4.2.5

			Discuss the adequacy of data, overall data integrity, and areas of	
		ii.	uncertainty	
			State the overall conclusions by the ACP-Geologist(s) as guided by	
		iii.	the purpose and scope of work of this Technical Report	
			The ACP-Geologist(s) must discuss whether the Technical Report	
			met the purpose and scope of work set forth and whether it is	
		iv.	PMRC 2020 compliant.	
42	D500			
12.	RECO	MMEND		
			Based on the above discussion and conclusions (under Sec. 11), a	
			list of recommendations is made 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	
		i.	recommendations.	
13.	DEEEE	RENCES		(iv)
13.		LINCLS	List of references cited in the narrative, whether published or	
		<i>i</i> .	unpublished	
			In the absence of a preferred format for citing references, one may	
		ii.	use the American Psychological Association (APA) format.	
	APPE	NDICES		
	1			
			Mandatory comprehensive listing of PMRC 2020 Table 1 Check List	
			of Assessment and Reporting Criteria with corresponding ACP's	
		i.	Comment	
	2	List of A	Acronyms	
		i.	Mandatory comprehensive listing of all acronyms used in the Technical Report	
	З.		· · ·	
	Etc.	Other A	Appendices, if needed	
		i.	Map(s) or plates (larger than A4 sized format)	
		ii.	Sections and level plans (larger than A4 sized format)	
		iii.	Other relevant data	

## LEGEND:

Typeface Type	
Bold Typeface	Section and subsection headings in the Table of Contents & Main Text
Normal Typeface in Italics	Guidance notes
Text Color	
Black Font	based on TR-FORM 1 of the PMRC 2007/ IRR 2010
Red Font	Taken from Table 1 of the PMRC 2020 & occasionally from main PMRC 2020
Green Font	Introduced by PMRCC

		TR-FORM 2	
	OUTLINE OF TEC	CHNICAL REPORT FOR ECONOMIC ASSESSMENT AND MINERAL RESERVES ESTIMATION	
			Reference to Table 1 (PMRC 2020)
	TITLE PAGE		(v)
	<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)), effectivity date of the Technical Report, and name of the Issuer	
	ACCREDITED COM	PETENT PERSON'S CONSENT FORM AND CONSENT STATEMENT, AND	(ii), 9, PMRC 2020 Appendices 3 & 4
	i.	ACP's Consent Form and Consent Statement(s) as prescribed by Appendix 4 of the PMRC 2020	
	ii.	Attach scanned copy of valid ACP Identification Card or Certificate of Accreditation of ACP(s)	
	iii.	Attach scanned copy of valid PRC Professional Identification Card (PIC) of ACP(s)	
	iv.	Attach scanned copy of valid Professional Tax Receipt	
	<i>v.</i>	Have this above document notarized including Acknowledgment showing Signature of ACP(s) and date of signing	
		ARY	(vi)
	<i>i.</i>	<ul> <li>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.</li> <li>Must state if the Technical Report is PMRC 2020-compliant and if the</li> </ul>	
	<i>ii.</i>	objectives of the Report have been met	
	TABLE OF CONTEN	TS	(v), (viii)
	<i>i.</i>	List the contents of the Technical Report including figures, tables, photographs, and appendices referred in the Report. All figures/tables/photographs/appendices must be cited in the narrative.	
1.	INTRODUCTION		(i), (iii), (x), (xi), 1.1.1, 1.1.2, 1.1.3, 1.2.1, 1.2.2,

		1.3.1, 1.4, 9.1.1
1.1	Purpose and Scope of Work	(i), 1.2.1
	State who commissioned the Technical Report and for whom it was	(
	prepared, whether it was intended as a complete or partial evaluation or	
	<i>i. for other purposes, work conducted, and effectivity date of the Report</i>	(iii)
	Briefly describe the purpose and scope of work (i.e., whether in	(i), 1.2.1
	preliminary sampling, advanced exploration, Scoping Study, Pre-	
	<i>ii. Feasibility Study (PFS), or Feasibility Study (FS), Life-of-Mine Plan (LoMP)</i>	
	for an ongoing mining operation or decommissioning)	
	<i>Provide</i> the details of the personal inspection on the mineral property by	
	iii. each ACP or, the reason why a personal inspection was not completed	(x)
	Must state if the report is PMRC 2020-compliant and if the objectives of	
	iv. the report have been met	
1.2	Country Profile (Optional for Mineral Property in the Philippines)	1.1.2
	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,	
	<i>i.</i> political, and other key risks.	
1.3	Location of the Mineral Property and Accessibility	1.1.1, 1.1.
1.5	Describe location and accessibility of the Mineral Property (country,	1,2,2
	province(s), municipality(ies), and closest town/city, coordinate systems,	
	<i>i. mountain ranges, etc.</i> )	1.1.1
	Discuss the modes and ease of access to the Mineral Property, the	1.1.1
	<i>ii. proximity to population center(s) and from the country capital</i>	1.2.2
	iii.     Attach relevant location map	1.1.3
1.4	Property Description and Adjacent Properties	1.2.2, 1.3.
	<i>i. Provide general description of the Mineral Property</i>	1.2.2
	Provide details of relevant adjacent third-party mineral tenements,	
	<i>ii.</i> especially those having an important bearing on the Technical Report	1.3.1
	Qualifications of Accredited Competent Person(s), Key Technical Staff, and Other	
1.5	Experts	9.1.1
	Describe briefly the competence and scope of work of each ACP(s), key	
	<i>i. technical staff, and experts in relation to the Technical Report</i>	
1.6	Disclaimer	(xi)
	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	
	<i>i. responsibility on such information in the Technical Report.</i>	
1.7	Units of Measure, Currency, and Foreign Exchange Rates	(ix)
1.8	Previous Works	1.4
	<i>i.</i> Arrange chronologically significant previous works	
	Briefly describe essential work done by previous entities including	
	ii. Historical Data and Historical Estimates, if available	
	Indicate sources of information (references) by citing	
	iii. published/unpublished report(s) or (personal communication	

	1.9	Previous Mineral Resources Estimates (if any)	
		Provide previous PMRC-compliant Mineral Resources estimates, if any.	
		<i>i.</i> Historical Estimates, if any, are discussed in Sec. 1.8	
2.	TENEN	IENT AND MINERAL RIGHTS	1.1.1, 1.5,
			1.6, 1.7
	i.	Subsections and corresponding guidance notes are exactly the same as in Section 2 of the TR-FORM 1.	
3.	GEOG	RAPHICAL AND ENVIRONMENTAL FEATURES	1.2.2
	i.	<i>This section and corresponding guidance notes are exactly the same as in Section 3 of TR-FORM 1.</i>	
		Whenever necessary, the ACP-Mining Engineer should place brief comments of	
	ii.	significance in the relevant subsection(s) from the mining point of view.	
4.	HISTO	RY OF PRODUCTION	
	i.	This section and corresponding guidance notes are exactly the same as in Section 4 of TR-FORM 1.	
		Whenever necessary, the ACP-Mining Engineer should place brief comments of	
	ii.	significance in the relevant subsection(s) from the mining point of view.	
5.	ENVIRO	ONMENTAL, SOCIAL, AND GOVERNANCE (Optional)	5.7
	i.	This section and corresponding guidance notes are exactly the same as in Section 5 of TR-FORM 1.	
		Whenever necessary, the ACP-Mining Engineer should place brief comments of	
	ii.	significance in the relevant subsection(s) from the mining point of view.	
6.	GEOLO	GICAL SETTING	2.1
	i.	<i>This section and corresponding guidance notes are exactly the same as in Section 6 of TR-FORM 01.</i>	
		Whenever necessary, the ACP-Mining Engineer should place brief comments of	
	ii.	significance in the relevant subsection(s) from the mining point of view.	
7.	MINER	ALIZATION IN THE MINERAL PROPERTY	2.1
	i.	This section and corresponding guidance notes are exactly the same as in Section 7 of TR-FORM 1.	
		Whenever necessary, the ACP-Mining Engineer should place brief comments of	
	ii.	significance in the relevant subsection(s) from the mining point of view.	
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8.	EXPLO	ATION RESULTS	3.1, 3.2, 3.3., 3.4, 3.5, 3.6, 3.7
		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	
	<i>i</i> .	Subsections 8.6, 8.7, 8.8, 8.9, and 8.10	
		Whenever necessary, the ACP-Mining Engineer should place brief comments of	
	ii.	significance in the relevant subsection(s) from the mining point of view.	

9.	ESTIM	ATION OF MINERAL RESOURCES	4			
		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)				
	i.	of TR-FORM 2.				
		Whenever necessary, the ACP-Mining Engineer should place brief comments of				
	ii.	significance in the relevant subsection(s) from the mining point of view.				
	9.1	Mineral Deposit Model and Interpretation				
		This subsection and corresponding guidance notes are exactly the same as in Section				
	i.	10.1 of TR-FORM 1.				
		Whenever necessary, the ACP-Mining Engineer should place brief comments of				
	ii.	significance in the relevant subsection(s) from the mining point of view.				
	9.2	Database & Software Used in the Estimation of Mineral Resources				
		This subsection and corresponding guidance notes are exactly the same as in Section				
	<i>i</i> .	10.2 of TR-FORM 1.				
	9.3	Database Integrity, Verification, and Validation				
		This subsection and corresponding guidance notes are exactly the same as in Section				
	<i>i.</i>	10.3 of TR-FORM 1.				
	9.4	Basic Statistical Parameters				
		This subsection and corresponding guidance notes are exactly the same as in Section				
	i.	10.4 of TR-FORM 1.				
	9.5	Mineral Resources Estimation and Modeling Techniques				
		Mineral Resources Estimation and Modeling Techniques           This subsection and corresponding guidance notes are exactly the same as in Section				
	i.	10.5 of TR-FORM 1.				
		Whenever necessary, the ACP-Mining Engineer should place brief comments of				
	ii.					
	9.6		4.4, 4.5			
	i.					
	ii.	S         Mineral Resources Estimation and Modeling Techniques           This subsection and corresponding guidance notes are exactly the same as in Section 10.5 of TR-FORM 1.           Whenever necessary, the ACP-Mining Engineer should place brief comments of significance in the relevant subsection(s) from the mining point of view.				
			4.6.4, 4.6.5			
	9.7	Mineral Resources Estimates	4.6.6, 4.2.5			
		This subsection and corresponding guidance notes are exactly the same as in Section				
		10.8 of TR-FORM 1. The ACP-Mining Engineer may place comments of significance in				
	<i>i</i> .	the relevant subsection(s).				
		Whenever necessary, the ACP-Mining Engineer should place brief comments of				
	ii.	significance in the relevant subsection(s) from the mining point of view.				
0.	ECON	OMIC ASSESSMENT OF THE MINING PROJECT				
	10.1	Brief Description of the Mining Project				
		Provide an overview of the Mining Project including (a) planned mining	5.2.2, 5.2.5			
		and processing operations, (b) estimated life of mine, (c) ore to be	5.2.8, 5.3.3			

10.2	2 Descriptio Reserves	on of Mineral	Resources Estimates used as Basis for Conversion to Mineral	6.1.1	
		Emphasize	the aspects of the definition of Mineral Reserves i.e., it is the	PMRC 2020	
		economical	ly mineable part of Measured and/or Indicated Mineral	Clauses 32-	
			y applying the Modifying Factors as discussed in detail in	34	
	i.		10.4 to 10.10 inclusive		
	ii.	Whenever r	necessary, the ACP-Mining Engineer should comment or		
		discuss imp	discuss important related issues about this section from the mining point		
	of view.				
10.3	Level of E	conomic Asse	ssment	5.1.1	
		If the Projec	t is not yet a mine, the Technical Report is at the level of a		
		project feas	ibility at least at the PFS level. If the Project is already an on-		
		going mine,	the economic assessment is categorized as an ongoing LoMP		
	<i>i</i> .	study.			
		This Technic	cal Report converts the estimated Mineral Resource		
		(categorize	d with tonnage/volume and grade/quality) to an estimated		
		Mineral Res	serves through a feasibility or LoMP process, involving field		
		and laborat	ory works, estimates and costings, directions to take from		
	ii.	several opti	ions, technology and financial analyses and screened through		
		the Modifyi	ng Factors		
10.4	Technical	Technical Aspects			
	10.4.1	Mining Plar	15		
		10.4.1.1	Mining Method(s)	5.2.2	
		i.	Describe the mining method(s) to be used	5.2.8	
		10.4.1.2	Mine Design/Mining Parameters/Geotechnical	5.2.2	
			Parameters		
			Discuss and highlight the essential elements such as	5.2.8	
			equipment selected, grade control methods, geotechnical		
			and hydrological considerations, mine design		
		i.	characteristics, and ventilation/cooling requirements		
			For open cut mines, include a discussion of pit slopes, slope	5.2.6	
		ii.	stability, and strip ratio	0.2.0	
			For underground mines, include a discussion of mining	5.2.7	
			method, geotechnical considerations, mine design	5.2.7	
		iii.	characteristics, and ventilation/cooling requirements		
		10.4.1.3	Mining Recovery, Dilution, and Losses	5.2.8	
		10.4.1.5	Explain how the mining recovery, dilution, and losses were	5.2.0	
		i.	estimated		
		10.4.1.4	Planned Production Rate/Production Schedule/Estimated	5.2.2, 5.2.8	
		10.4.1.4	Life of Mine	5.2.2, 5.2.0	
		10.4.1.5	Work Schedules at the Mining Project	5.2.2, 5.2.8	
		10.4.1.6	List of Mining Equipment and Auxiliary Machinery	5.2.8	
		i.	Cite the specifications as to size and capacities		
		10.4.1.7	Mine Infrastructure	5.2.2, 5.4.2, 5.4.3,	
			List down all major infrastructures related to production,		
			environmental protection, and mine support. List down too		

		i.	those not related to production but of significant costs and land area requirements within and outside of the Mineral Property	
		10.4.1.8	Mine Development Plans and Schedule	5.2.2, 5.2.8
		i.	Discuss the engineering, planning, estimating, scheduling, and construction requirements of the whole mine and mill industrial complex including support structures and services.	
		ii.	Prepare and explain the master development plan which should cover activities and commitments up to the completion of the final Mine Rehabilitation and Decommissioning Plan (FMRDP). Prepare a general arrangement map showing the infrastructure in the industrial complex, those for production, mine support, environmental, amenities, etc.	
		iii.	Prepare a bar chart of activities showing the start and completion of all major infrastructures in its proper sequence. (A bar chart may do instead 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.)	
1	0.4.2	Processing Pl	ans	
	-	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.	
		ii.	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.	
		10.4.2.1	Metallurgical Test Works Results	5.2.1
		i.	<b>Discuss</b> the source of the samples, the representativeness of the potential feed, and the techniques used to obtain the samples, laboratory, and metallurgical testing techniques	5.3.1
		ii.	Discuss the basis for assumptions or predictions regarding metallurgical amenability and any preliminary mineralogical test work carried out	5.3.2
		10.4.2.2	Metallurgical Process Flowsheet/Process Plant Design/Material Balance	
		i.	Discuss the processing method(s) and associated equipment	5.3.3
			Show a detailed flow sheet/diagram and a material balance, especially for multi-product operations from	5.3.4

		ii.	which the saleable materials are priced for different	
			chemical and physical characteristics.	
			Briefly discuss the assumptions or allowances made for	5.3.5
			deleterious elements and the existence of any bulk-sample	
			or pilot-scale test work and the degree to which such	
		iii.	samples are representative of the ore body as a whole.	
			Disclose whether metallurgical process is well-tested	5.3.6
			technology or novel in nature and if novel, justification for	
		iv.	its use in Mineral Reserve estimation	
		10.4.2.3	Plant Capacity/Production Schedule/Plant Working	5.3.3
			Schedule	
		10.4.2.4	Tailings Specification	
		10.4.2.5	Tailings Storage Facility	5.4.2
		10.4.2.6	List of Mill Machineries and Auxiliary Equipment	5.6.7
		i.	Cite the specifications as to size and capacities	
		10.4.2.7	Mill Plant Layout	5.4.2
		<i>i.</i>	Provide some sections and elevations	
	10.4.3		ort Services	
		10.4.3.1	Power Source/Power Plant	5.4.2
			Show if mine power is taken from one or many sources;	
			availability of emergency power, and sharing of project	
		i.	power with the adjacent communities and other users	
		10.4.3.2	Mechanical and Electrical Shop	5.4.2
			Mention availability of mechanical and electrical shops and	
			other special fabrication facilities and shops for	
			maintenance and repairs. Special shops' capabilities may	
		<i>i</i> .	be mentioned.	
		10.4.3.3	Assay Laboratory	5.4.2
			Describe the assay laboratory and if there are other	
		<i>i</i> .	laboratories, such as metallurgical laboratory.	
		10.4.3.4	Domestic Water Supply	5.4.2
			Discuss in relation to the water needs of the adjacent	
			communities and if water treatment facility will be put up	
		i.	and if the mine will procure bottled mineral water	
		10.4.3.5	Industrial Water Supply	5.4.2
		i.	Describe the industrial water supply and if it will be treated	
			Discuss the industrial water supply in relation to the needs	
		ii.	of other industries, i.e., irrigation, power, flood control, etc.	
		10.4.3.6	Availability of Alternative Sources of Mine Support	5.4.2
			Services	
			State use of special contracted services; outsourced	
		<i>i</i> .	services; packaged products	
		10.4.3.7	Logistics	5.4.3
			Discuss the project's inventory control, procurement,	
			physical warehousing, and the role of new technology and	
		<i>i.</i>	the internet may have	
10.5		wornmont Do	rmitting and Licensing, and Statutory Aspects	1.5

		Diama		
			d confirm that all legal, government, permitting and licensing,	
			bry requirements of the Mineral Property are in place and that	
		all issues of material significance had been addressed. If there are still		
	i.		r deficiencies, state them and how they will be addressed	
10.6	Environm	nental and Soc	cial Aspects	5.5
	10.6.1	Environme	ntal Protection and Management Plan	
			Discuss the environmental protection and management	5.5.1, 5.5.4
			plan for the Mining Project, listing the environmental	
			aspects, impacts, and mitigating measures. If an operating	
			mine, discuss the Issuer's Environmental Protection and	
		i.	Enhancement Program (EPEP) and FMRDP.	
			The ACP-Mining Engineer shall discuss the role, function,	
			and costs of the major environmental structures such as	
		ii.	TSF, drainage, etc.	
			Confirm that the company holding the Mineral Property	5.5.1, 5.5.2
			has addressed the host country's environmental and legal	5.5.1, 5.5.2
			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, FMRDP,	
			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	
		lii.	Mining Project will be obtained in a timely manner.	
			Identify any sensitive area that may affect the Mining	5.5.3
			Project as well as any other environmental factors	
			including Interested and Affected Parties (I&AP) and/or	
			studies that could have a material effect on the likelihood	
			of eventual economic extraction as well as the possible	
		iv.	means of mitigation.	
			Identify any liabilities, including rehabilitation guarantees	1.7.1
			that are required of the project. Describe the rehabilitation	
			liability, including, but not limited to, legislative	
		<i>v</i> .	requirements, assumptions and limitations.	
	10.6.2	Mine Safet	y and Health Plan	5.2.8
1	i.		key elements and associated programs and budget	
	10.6.3	Employme	nt/Management	
		10.6.3.1	Number, Nationalities (Locals and Expatriates), Key	5.2.2, 5.2.8,
			Personnel and Annual Budgeted Payroll	5.3.3
			Prepare a simple description of the organization	
		<i>i</i> .	enumerating only the key mine site positions	
		10.6.3.2	Human Resources Policies	5.2.8, 5.3.3
			Describe how the pay scale will be structured i.e., based on	
		i.	rank and skills	

			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	
		ii.	with special skills.	
		10.6.3.3	Table of Organization	5.2.8, 5.3.3
		i.	Show simplified organizational structure only	
		10.6.3.4	Availability of Technical and Skilled Labor	5.2.8, 5.3.3
			Discuss if there is adequate pool of technical and skilled	,
			labor in the host and neighboring communities with the	
		i.	right skills and provide solutions if there is not enough	
			Discuss the Issuer's training strategy to strengthen the	
		ii.	pool of possible local hires	
		10.6.3.5	Township/Housing	5.5.4
		10.0.3.5	State and discuss the Issuer's plan in providing housing	5.5.4
			facilities and/or fly in-fly out program for some or all of the	
		i.	workforce	
		1.		
			Discuss the Issuer's transportation plan for the local	
	10.6.4	<i>ii.</i>	employees and contractors to and from the Mining Project	<b><i><b></b></i></b>
	10.6.4		y Development Plan	5.5.4
	i.		legislated social management programs including content	
			and state their socio-economic contributions on the host and	
		_	g communities including Indigenous Peoples, if any. For a non-	
		-	nine, discuss the Community Development Plan (CDP). If an	
		operating n (SDMP).	nine, discuss the Social Management Development Program	
			ining Engineer, with the help of community development	
			xpert(s), should identify the programs, budget, and	
			ation schedules with the participation of the community	
	ii.	implemente		
10.7	ii. Marketin			5.6
10.7	_	g Aspects		5.6
10.7	Marketin	g Aspects World Supp	oly and Demand Situation e Markets and/or Buyers	5.6
10.7	Marketin 10.7.1	g Aspects World Supp Prospective	bly and Demand Situation Markets and/or Buyers	5.6
10.7	Marketin 10.7.1	g Aspects World Supp Prospective Discuss (1)	bly and Demand Situation	
10.7	Marketin 10.7.1	g Aspects World Supp Prospective Discuss (1) contracts for	oly and Demand Situation e Markets and/or Buyers if a ready market exists for the product(s) and whether	
10.7	Marketin 10.7.1	g Aspects World Supp Prospective Discuss (1) contracts for	bly and Demand Situation Markets and/or Buyers if a ready market exists for the product(s) and whether or the sale of the product are in place or expected to be readily	
10.7	Marketin 10.7.1 10.7.2	g Aspects World Supp Prospective Discuss (1) contracts for obtained, a forecast	bly and Demand Situation Markets and/or Buyers if a ready market exists for the product(s) and whether or the sale of the product are in place or expected to be readily	
10.7	Marketin 10.7.1 10.7.2 <i>i.</i>	g Aspects World Supp Prospective Discuss (1) contracts for obtained, a forecast Product(s)	bly and Demand Situation Markets and/or Buyers if a ready market exists for the product(s) and whether for the sale of the product are in place or expected to be readily and (2) price and volume forecasts and the basis for the	
<u>    10.7</u>	Marketin 10.7.1 10.7.2 <i>i.</i>	g Aspects World Supp Prospective Discuss (1) contracts for obtained, a forecast Product(s) Describe th	bly and Demand Situation e Markets and/or Buyers if a ready market exists for the product(s) and whether or the sale of the product are in place or expected to be readily and (2) price and volume forecasts and the basis for the to be Produced and Specifications	5.6.2
	Marketin 10.7.1 10.7.2 <i>i.</i> 10.7.3	g Aspects World Supp Prospective Discuss (1) contracts for obtained, a forecast Product(s) Describe th acceptance	bly and Demand Situation e Markets and/or Buyers if a ready market exists for the product(s) and whether for the sale of the product are in place or expected to be readily and (2) price and volume forecasts and the basis for the to be Produced and Specifications e product(s) to be sold, customer specifications, testing, and	5.6.2
	Marketin 10.7.1 10.7.2 <i>i.</i> 10.7.3 <i>i.</i>	g Aspects World Supp Prospective Discuss (1) contracts for obtained, a forecast Product(s) Describe th acceptance Commodity	bly and Demand Situation a Markets and/or Buyers if a ready market exists for the product(s) and whether for the sale of the product are in place or expected to be readily and (2) price and volume forecasts and the basis for the to be Produced and Specifications to be product(s) to be sold, customer specifications, testing, and requirements	5.6.2
	Marketin 10.7.1 10.7.2 <i>i.</i> 10.7.3 <i>i.</i>	g Aspects World Supp Prospective Discuss (1) contracts for obtained, a forecast Product(s) Describe th acceptance Commodity	bly and Demand Situation e Markets and/or Buyers if a ready market exists for the product(s) and whether or the sale of the product are in place or expected to be readily and (2) price and volume forecasts and the basis for the to be Produced and Specifications e product(s) to be sold, customer specifications, testing, and requirements / Price and Volume Forecasts	5.6.2 5.6.2
	Marketin 10.7.1 10.7.2 <i>i.</i> 10.7.3 <i>i.</i>	g Aspects World Supp Prospective Discuss (1) contracts for obtained, a forecast Product(s) Describe th acceptance Commodity Provide sum estimate th	bly and Demand Situation Markets and/or Buyers if a ready market exists for the product(s) and whether or the sale of the product are in place or expected to be readily nd (2) price and volume forecasts and the basis for the to be Produced and Specifications e product(s) to be sold, customer specifications, testing, and requirements y Price and Volume Forecasts mmary description, source, and confidence of method used to	5.6.2 5.6.2
10.7	Marketin 10.7.1 10.7.2 <i>i.</i> 10.7.3 <i>i.</i>	g Aspects World Supp Prospective Discuss (1) contracts for obtained, a forecast Product(s) Describe th acceptance Commodity Provide sum estimate th calculation,	oly and Demand Situation e Markets and/or Buyers if a ready market exists for the product(s) and whether or the sale of the product are in place or expected to be readily nd (2) price and volume forecasts and the basis for the to be Produced and Specifications e product(s) to be sold, customer specifications, testing, and requirements ( Price and Volume Forecasts mmary description, source, and confidence of method used to e commodity price/value profiles used for Cut-off Grade	5.6.2 5.6.2
	Marketin 10.7.1 10.7.2 <i>i.</i> 10.7.3 <i>i.</i> 10.7.4	g Aspects World Supp Prospective Discuss (1) contracts for obtained, a forecast Product(s) Describe th acceptance Commodity Provide sum estimate th calculation, indices, disc	oly and Demand Situation a Markets and/or Buyers if a ready market exists for the product(s) and whether or the sale of the product are in place or expected to be readily nd (2) price and volume forecasts and the basis for the to be Produced and Specifications e product(s) to be sold, customer specifications, testing, and requirements / Price and Volume Forecasts nmary description, source, and confidence of method used to e commodity price/value profiles used for Cut-off Grade and economic analysis, including applicable taxes, inflation	5.6.2 5.6.2
	Marketin 10.7.1 10.7.2 <i>i.</i> 10.7.3 <i>i.</i> 10.7.4	g Aspects World Supp Prospective Discuss (1) contracts for obtained, a forecast Product(s) Describe th acceptance Commodity Provide sum estimate th calculation, indices, disc	oly and Demand Situation e Markets and/or Buyers if a ready market exists for the product(s) and whether or the sale of the product are in place or expected to be readily nd (2) price and volume forecasts and the basis for the to be Produced and Specifications e product(s) to be sold, customer specifications, testing, and requirements / Price and Volume Forecasts nmary description, source, and confidence of method used to e commodity price/value profiles used for Cut-off Grade and economic analysis, including applicable taxes, inflation count rate, and exchange rates for special products	5.6.2 5.6.2

	i.	other costs.	Allowances should be made to include the penalty for the	
			f deleterious elements	
		Discuss roy	alties and streaming agreements payable both to Government	5.6.6
			entities, if any. Streaming agreements can show the strength	
		ce from the market and the long-term viability of the Mining		
	ii.	Project.		
	iii.		lging agreements, if any.	
10.8	8 Material	I		4.00
			risks of material significance, e.g., sovereign, legal,	4.38
	i.	etc.	ntal, social license to operate, climatic, seismic, technological,	
10.9	Financial			
10.		-	requires very close coordination with the Issuer's finance	
			member of the team of the ACP-Mining Engineer must be a	
	i.		son familiar with project finance and development.	
			may have the financial model tailored to what it wants	
	ii.		or as required by the Issuer's finance/accounting structure.	
	10.9.1		ct Cost Estimates and Assumptions	
		10.9.1.1	Engineering Study Cost	5.6.5
			State the engineering study costs. This includes all	
			engineering studies, Pre-Feasibility Study (PFS), Feasibility	
			Study (FS) or Life-of-Mine Plan (LoMP), reports, special	
			studies, lab works, scientific papers, field tests, and	
			performance of special equipment commissioned by the	
		i.	Issuer.	
		10.9.1.2	Exploration Cost	5.6.5
			State the exploration costs. This covers the cost of the	
		<i>i</i> .	exploration activities relevant to the investment analysis.	
			This may include planned exploration budget during the	
			development and production years of the mine not	
		ii.	captured in the actual exploration cost.	
		10.9.1.3	Development Cost	5.6.5
		i.	State the project development costs	
		10.9.1.4	Pre-Operating Overhead Cost	5.6.5
		i.	State and describe pre-operating overhead costs	
		10.9.1.5	Cost of Capital Equipment and Machinery	5.6.5
			State the cost of capital equipment and machinery. List	
			with individual costs for major equipment. Minor units may	
		i.	be lumped together but identified properly	
		10.9.1.6	Cost of Allied Mine Facilities and Infrastructures	5.6.5
		<i>i</i> .	Show a list of individual costs for major infrastructures	
		10.9.1.7	Cost of the Environmental Structures, Facilities, and	5.6.5
			Equipment	
			List with individual costs for major equipment. Include	
		<i>i</i> .	complementary or auxiliary facilities.	
		10.9.1.8	Interest Cost during Construction	5.6.5
		10.9.1.9	Working Capital	5.6.5

		10.9.1.10	Contingencies	5.6.5
	10.9.2	List of Capit	tal Equipment and Infrastructure	5.2.8, 5.3.3,
				5.6.7, 5.4.2
		Reference is	s made to previous sections on mining and milling equipment	
		list; include	other items outside of the mining and milling operations	
	<i>i</i> .	which are to	o be capitalized	
	ii.	Review the	whole development cost for items to be capitalized	
	10.9.3	Financial Pl	ans/Sources of Funds	-
	10.9.4	Production	Cost Estimates and Assumptions	
		10.9.4.1	Mining Cost	5.6.3, 5.6.5
			State the direct production costs of all the units of	
		i.	operation within the mining activity	
		10.9.4.2	Milling Cost	5.6.5
		10.3.4.2	State the direct production costs of all the units of	5.0.5
		1	operation within the milling and processing activity	
		i.		<b><i><b>F</b>C</i><b><i>F</i></b></b>
		10.9.4.3	Marketing Cost	5.6.5
			State the costs of all the units of operation in the	
			marketing activity including transportation costs from an	
		i.	assumed starting point	
		10.9.4.4	Mine Overhead Cost	
			State the mine-site overhead costs. These are generally	
			non-production and/or indirect production costs. Mining	
			Projects with joint venture partners and/or Issuer with	
			several operating mines must determine this cost properly.	
			This must be defined accurately in relation to Sec.	
			10.9.4.10 (Head Office Overhead Costs). Government is	
			particularly interested with this cost item. Note that	
			different Issuers/mining companies have different cost	
		i.	structure.	
		10.9.4.5	Environmental Cost	5.6.8
			State the environmental costs, i.e., EPEP plus other costs	
		i.	outside of the EPEP	
		10.9.4.6	Community Development Cost	5.6.8
		-	State the community development costs as provided in	
			either CDP or SDMP including royalty payment to	
		<i>i</i>	Indigenous Peoples, if any	
		10.9.4.7	Excise Tax	5.6.4
		i.	State the current applicable rates	
		10.9.4.8	Business Tax	5.6.4
		10.3.4.0		5.0.4
			State the current applicable rate(s); must check rates with	
		i.	the project's local government(s).	5.0.0
		10.9.4.9	Mineral Reservation Tax	5.6.6
		<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	5.6.8
<u> </u>			State the head office overhead costs. This must be defined	
1	1	1	accurately in relation to Sec. 10.9.4.4 (Mine Overhead	1

			Cost). Note that different Issuers/mining companies have	
		i.	different cost structure.	
		10.9.4.11	Royalties and Streaming Agreements	5.6.6
			State expenses incurred due to royalty and streaming	
			agreements, if any. Normally levied as a percentage of the	
			gross revenue or may take a different form or formula to	
		i.	compute.	
		10.9.4.12	Income Tax	5.6.4
		i.	State the current applicable rates	
	10.9.5	Governmer	nt Financial Incentives	
		10.9.5.1	Board of Investments	
			Specify the Board of Investments (BOI) incentives and	
		<i>i</i> .	impact on the Mining Project	
		10.9.5.2	Philippine Economic Zone Authority	
			Specify the Philippine Economic Zone Authority (PEZA)	
		<i>i</i> .	incentives and impact on the Mining Project	
	10.9.6	Basis of Rev	venue Calculation	
		10.9.6.1	Main Valuable Product(s) and By-Product(s) with their	5.6.1, 5.6.2
			Specifications	
			Provide the customer specifications of the product(s) and	5.6.2
		<i>i</i> .	by-product(s) to be sold	
			Describe fully the prices especially when there are several	
			by-products; some may be derived from the plant and	
		ii.	some may be credits from the smelters	
		10.9.6.2	Metallurgical Recovery	5.3.3
		10.9.6.3	Selling Price	5.6.2, 5.6.4
		i.	State the estimated selling price of the product(s) and by- product(s).	
			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	
		ii.	revenues, costs and taxes involved.	
		10.9.6.4	Foreign Exchange Rate	ix, 5.6.3
		i.	The applicable currency and exchange rate. Refer to	
			Section 1.7.	
		10.9.6.5	Smelter/Freight/Treatment Charges	5.6.5
			The ACP-Metallurgical Engineer should be consulted on	0.010
		ii.	this matter.	
		10.9.6.6	Bonuses and Penalties	5.6.5
		10.5.0.0	The ACP-Metallurgical Engineer should be consulted on	5.0.5
		i.	this matter.	
		10.9.6.7	Other Receivables and Payables	151 157
		10.3.0.7		1.5.1, 1.5.2,
				5.1.1, 5.1.2
	40.07	i.	Include from whom or what entity	
	10.9.7	Pro-forma l	Financial Statements	
			This must be prepared by the ACP-Mining Engineer in	
1			coordination with the company's finance department using	

				figures derived from the PFS, FS or LoMP. These financial			
			i				
					5.8.2		
					5.8.2		
					5.8.2		
		10.9.8					
			10.9.8.1		5.8.4		
			i.	Project.			
			10.9.8.2	Sensitivity Analyses	5.8.4		
				This measures how big the project returns change when			
				there are changes in elements like commodity/metal			
				prices, metallurgical recovery, Mineral Reserves,			
				production rate, project cost (CAPEX), Operating Expenses			
			<i>i</i> .	(OPEX), etc.			
			10.9.8.3	Investment Analysis	5.8.2, 5.8.3		
				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			
			<i>i.</i>	Rate of Return (IRR), (4) Payback Period, etc.			
	10.10	Project Sc	hedule and Im	plementation	5.2.2		
			Discuss how	the project development program will be implemented, the			
			total project	t cost, fund release dates, and whether an EPCM or an EPC			
		<i>i</i> .	10.9.8.2       Sensitivity Analyses         This measures how big the project returns change when there are changes in elements like commodity/metal prices, metallurgical recovery, Mineral Reserves, production rate, project cost (CAPEX), Operating Expenses i. (OPEX), etc.         10.9.8.3       Investment Analysis         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				
			State (1) if t	he Issuer will undertake all or some of the design and			
			· · · ·	· · ·			
		ii.	utilized, and	(3) whether the Issuer will participate in the procurement			
			process				
		iii.	Provide the	construction schedule, e.g., Gantt chart			
11.	ESTIM	ATION OF N	VINERAL RES	SERVES			
	i.	Provide an	overview of t	he estimation of Mineral Reserves			
	11.1		-		6.1.1		
	i.		-				
	11.2				6.1.2, 6.1.3		
	11.2				0.1.2, 0.1.3		
		i.	versions use				

	ii.	Describe fully what were the assumptions and parameters used, e.g., mining and waste costs, processing cost	
11.3	Mineral R	eserves Categories	
	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.	6.2.1
	<i>ii.</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.	4.5
11.4	Mineral R	leserves Estimates	
	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	6.3.2
	ii.	<b>State and explain</b> the basis of the Cut-off Grade(s) or quality parameters applied, including Metal Equivalents, if relevant	5.2.4
	<i>iii</i> .	Indicate the proportion of Probable Mineral Reserves, which have been derived from Measured Mineral Resources (if any), including the reason(s) thereof	6.3.1
	iv.	State clearly the inclusion or exclusion of Mineral Resources in the estimation for the Mineral Reserves	6.3.4
	<i>v</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	6.3.3
	vi.	Discuss the basis for the Mineral Reserves estimate owned by the Issuer. If not 100%, indicate the attributable percentage relevant to the Issuer of the Technical Report	4.6.6
DICCL			
i.	1	Synthesis of all the data and information	
		e adequacy of data, overall data integrity, and areas of uncertainty	
ii.		e adequacy of data, over an data integrity, and dreas of differentiality	

		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)					
	iv.	which played critically or substantially to the decision to pursue or not-to-pursue the					
		Mining Project.					
13.	RECOM	MENDATIONS					
		Based on the above discussion and conclusions (under Sec 12), present a list of					
		recommendations is made to guide the Issuer on the course of action to improve					
	<i>i.</i>	profitability, i.e., measures resulting to savings and better efficiency.					
		If the Mining Project failed to hurdle the viability criteria or is marginal, provide					
	ii.	recommendation(s) to the Issuer to move the Mining Project to economic viability.					
			(iv)				
14.		ERENCES					
	i.	List of references cited in the narrative, whether published or unpublished					
		In the absence of a preferred format for citing references, one may use the American					
	ii.	Psychological Association (APA) format.					
	APPENI	DICES					
	1	Comments on PMRC 2020 Table 1 Assessment and Reporting Criteria					
		Mandatory comprehensive listing of PMRC 2020 Table 1 Check List of					
		<i>i.</i> Assessment and Reporting Criteria with corresponding ACP's Comment					
	2.	List of Acronyms					
		Mandatory comprehensive listing of all acronyms used in the Technical					
		i. Report					
	3 Etc.	Other Appendices if needed					
		<i>i.</i> Map(s) or plates (larger than A4 sized format)					
		ii. Sections and level plans (larger than A4 sized format)					
		iii. Other relevant data					

## LEGEND:

Typeface Type	
Bold Typeface	Section and subsection headings in the Table of Contents & Main Text
Normal Typeface in Italics	Guidance notes
Text Color	
Black Font	based on TR-FORM 2 of the PMRC 1007/ IRR 2010
Red Font	Taken from Table 1 of the PMRC 2020 & occasionally from main PMRC 2020
Green Font	Introduced by PMRCC

METALL	TR-FORM 3 OUTLINE OF TECHNICAL REPORT FOR A URGICAL ENGINEERING STUDY AND ASSESSMENT	
	ON A MINERAL DEPOSIT	
		Reference to Table 1 (PMF 2020)
TITLE PAGE		(v)
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)), effectivity date of the Technical Report, and name of Issuer	
ACCREDITED COMP AND CERTIFICATES	PETENT PERSON'S CONSENT FORM AND CONSENT STATEMENT,	(ii), 9, PMRC 2020 Appendices 3 4
i.	Attach ACP's <b>Consent</b> Form and Consent Statement(s) as prescribed by Appendix 4 of the PMRC 2020	
ii.	Attach scanned copy of valid ACP Identification Card or Certificate of Accreditation of ACP(s)	
iii.	Attach scanned copy of valid PRC Professional Identification Card (PIC) of ACP(s)	
iv.	Attach scanned copy of valid Professional Tax Receipt	
<i>v.</i>	Have this above document notarized including Acknowledgment showing Signature of ACP(s) and date of signing	
		(vi)
i.	Briefly summarize important information in the Technical Report, 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 detail to allow the reader to understand the essentials of the Technical Report.Must state if the Technical Report is PMRC 2020-compliant and if the objectives of the Report have been met	
TABLE OF CONTENT       i.	TS List the contents of the Technical Report including figures, tables, photographs, and appendices referred in the Report. All figures/tables/photographs/appendices must be cited in the narrative.	(v), (viii)
		(i), (iii), (x), (x 1.1.1, 1.1.2, 1.1.3, 1.2.1,

			1.2.2, 1.3.1
			1.4, 9.1.1
1.1	Purpose and Scope of		(i), 1.2.1
		who commissioned the Technical Report and for whom it	
	wasp	prepared, whether it was intended as a complete or partial	
	evalu	ation or for other purposes, work conducted, and	
	i. effec	tivity date of the Report	(iii)
	ii. Briefl	y describe the purpose and scope of work (i.e., whether	(i), 1.2.1
	Scopi	ng, Pre-Feasibility, or Feasibility Study, Life-of-Mine plan	
		n ongoing mining operation or decommissioning)	
		de the details of the personal inspection on the mineral	
		erty by each ACP or the reason why a personal inspection	
		not completed	(x)
		state if the Technical Report is PMRC 2020-compliant and	
		objectives of the Report have been met	
1.2		onal for Mineral Property in the Philippines)	1.1.2
1.2			1.1.2
		de brief information relating to the project host country	
		nent to the Mineral Property, including relevant applicable	
		ation, environmental and social context, etc. This is a high-	
		assessment of relevant technical, environmental, social,	
	i. econo	omic, political, and other key risks.	
			1.1.1, 1.1.3
1.3		al Property and Accessibility	1.2.2
		ibe location and accessibility of the Mineral Property	
		ntry, province(s), municipality(ies), and closest town/city,	
	i. coord	linate systems, mountain ranges, etc.)	1.1.1
	Discu	ss the modes and ease of access to the Mineral Property,	
	the p	roximity to population center(s) and from the country	
	ii. capit	al	1.2.2
	iii. Attao	h relevant location map	1.1.3
1.4	<b>Property Description</b>	· · · · · · · · · · · · · · · · · · ·	1.2.2, 1.3.1
	i. Provi	de general description of the Mineral Property	1.2.2
		edited Competent Person(s), Key Technical Staff, and	
1.5	Other Experts		9.1.1
		ibe briefly the competence and scope of work of each	
		s), key technical staff, and experts in relation to the	
		nical Report	
1.6	Disclaimer	nour report	(vi)
1.0		P(s) relied on the report, opinion, statement of a legal,	(xi)
		onmental, social, governance expert, etc., who is not a co-	
		or of this Technical Report, the ACP(s) may include a	
		imer of responsibility on such information in the Technical	
	i. Repo		
1.7	Units of Measure, Cu	rrency, and Foreign Exchange Rates	(ix)
1.8	Previous Works		1.4
	Arrar	nge chronologically and briefly describe -significant	
		ous works on the metallurgical study and assessment of	
		Aineral Project	
		ate sources of information (references) by citing	
		shed/unpublished report(s) or personal communication	
	2001		

	GEO	GRAPHICAL AND	ENVIRONMENTAL FEATURES	1.2.2
	2.1	Physiography,	Climate, and Vegetation	
			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	
		i.	relevant to the Mineral Property	1.2.2
		ii.	Attach relevant map(s) if appropriate	
	2.2	Land Use and I	nfrastructure	
		i.	Describe current land use	
			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 leach pad	
			areas, processing plant sites, etc. (noting any conditions that	
		ii.	may adversely affect possible exploration/mining activities)	1.2.2
	2.3	Environmental		
			Describe the environmental features within and adjoining the	
			Mineral Property including those that may have an adverse	
		i.	impact to mineral processing operations	
3.		ALLURGY		
	3.1	Introduction		
			State in brief terms the overall philosophy of the mineral	522522
		i.	processing and metallurgical test works	5.3.2, 5.3.3,
			State the status or progress of the mineral processing and	5.2.2
		ii.	metallurgical test works.	5.3.3
			State whether the process is a commonly used technology, a	
			novel process, i.e., pioneering but not yet tested in a commercial	5.2.6
		iii.	scale, or combinations thereof, etc.	5.3.6
			For an existing operating plant, describe briefly the mineral	
			processing plant, the general processes involved, rated plant	522542
		ív.	capacity, operating history and improvements undertaken	5.3.3, 5.4.2
	3.2	Sampling and S	Sample Collection Program	
			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.	
				E 2 1
		i.		5.3.1
		1.	State sample description, source of the samples, nature, and	5.3.1
			State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the	
		ii.	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samples	5.3.1 5.3.1
		ii. iii	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samples Not applicable for an existing operating plant.	
	3.3	ii. iii Mineralogical (	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samples Not applicable for an existing operating plant. Characterization Studies	5.3.1
	3.3	ii. iii Mineralogical i.	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samples Not applicable for an existing operating plant. Characterization Studies Provide mineralogical and mineragraphic analysis	5.3.1 2.1.5,5.3.2
	3.3	ii. iii Mineralogical (	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samplesNot applicable for an existing operating plant.Characterization StudiesProvide mineralogical and mineragraphic analysisDiscuss mineral liberation analysis	5.3.1
	3.3	ii. iii Mineralogical i.	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samplesNot applicable for an existing operating plant.Characterization StudiesProvide mineralogical and mineragraphic analysisDiscuss mineral liberation analysisFor an existing operating plant, provide describe briefly the	5.3.1 2.1.5,5.3.2
	3.3	ii. iii Mineralogical i.	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samplesNot applicable for an existing operating plant.Characterization StudiesProvide mineralogical and mineragraphic analysisDiscuss mineral liberation analysisFor an existing operating plant, provide describe briefly the mineralogy of the ore, i.e., main valuable and gangue minerals,	5.3.1 2.1.5,5.3.2 2.1.5
	3.3	ii. iii Mineralogical ( i. ii.	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samplesNot applicable for an existing operating plant.Characterization StudiesProvide mineralogical and mineragraphic analysisDiscuss mineral liberation analysisFor an existing operating plant, provide describe briefly the mineralogy of the ore, i.e., main valuable and gangue minerals, including deleterious elements. Attach relevant geological	5.3.1 2.1.5,5.3.2 2.1.5 2.1.5, 2.1.6,
		ii. iii Mineralogical i. ii. iii.	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samplesNot applicable for an existing operating plant.Characterization StudiesProvide mineralogical and mineragraphic analysisDiscuss mineral liberation analysisFor an existing operating plant, provide describe briefly the mineralogy of the ore, i.e., main valuable and gangue minerals, including deleterious elements. Attach relevant geological section(s), if any	5.3.1 2.1.5,5.3.2 2.1.5
	3.3	ii. iii Mineralogical i. ii. iii.	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samplesNot applicable for an existing operating plant.Characterization StudiesProvide mineralogical and mineragraphic analysisDiscuss mineral liberation analysisFor an existing operating plant, provide describe briefly the mineralogy of the ore, i.e., main valuable and gangue minerals, including deleterious elements. Attach relevant geological	5.3.1 2.1.5,5.3.2 2.1.5 2.1.5 2.1.5, 2.1.6, 5.3.5
		ii. Mineralogical ( i. ii. iii. Mineral and M	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samplesNot applicable for an existing operating plant.Characterization StudiesProvide mineralogical and mineragraphic analysisDiscuss mineral liberation analysisFor an existing operating plant, provide describe briefly the mineralogy of the ore, i.e., main valuable and gangue minerals, including deleterious elements. Attach relevant geological section(s), if anyetallurgical Test Programs and Procedures	5.3.1 2.1.5,5.3.2 2.1.5 2.1.5, 2.1.6, 5.3.5 5.3.2, 5.3.3,
		ii. iii Mineralogical i. ii. iii.	State sample description, source of the samples, nature, and amount, and the representativity of the potential feed and the techniques used to obtain the samplesNot applicable for an existing operating plant.Characterization StudiesProvide mineralogical and mineragraphic analysisDiscuss mineral liberation analysisFor an existing operating plant, provide describe briefly the mineralogy of the ore, i.e., main valuable and gangue minerals, including deleterious elements. Attach relevant geological section(s), if any	5.3.1 2.1.5,5.3.2 2.1.5 2.1.5 2.1.5, 2.1.6, 5.3.5

		iii.	Discuss programs and procedures for gravity, leaching,		
			flotation, settling tests, etc.	5.3.3, 5.3.4	
		iv.	Discuss variability tests	5.3.3, 5.3.4	
		<i>v.</i>	For existing operating plants, describe the regular metallurgical		
			research and development programs conducted on a regular	5.3.3, 5.3.4,	
			basis.	5.3.5	
			est Results and Determination of Capacities, Recoveries,		
	3.5	Product Specif	ication and Process Flow		
		i.	Discuss the calculation and estimation of plant capacity.		
		ii.	Discuss recovery projection and basis for assumptions		
			State the basis for assumptions or predictions regarding		
			metallurgical amenability and any preliminary mineralogical		
		iii.	test work should already be conducted	5.3.2	
			Describe the product quality and deleterious elements and		
		iv.	assumptions or allowances made for deleterious elements.	5.3.5	
		V	Discuss the bulk-sample or pilot-scale test work	5.3.1, 5.3.4	
-+		<i>V</i> .	Disclose whether metallurgical process is well-tested	5.5.1, 5.3.4	
			technology or novel in nature, i.e., pioneering but not yet tested		
			on a commercial scale, and if novel, justification of its use in		
		vi.	Mineral Reserve estimation.	5.3.6	
				5.5.0	
	3.6	Development	of Process Response Models	501 500	
				5.3.1, 5.3.2,	
			Discuss how the receivery model was devived	5.3.3, 5.3.4,	
		-	Discuss how the recovery model was derived.	5.3.5,5.3.6	
	3.7	Recommended	Future Test Work		
			Discuss recommended future test work, if any.	5.3.4, 5.3.6	
	MINERAL PROCESSING				
			ably available information test or operating results relating to the		
			f the valuable component or commodity and amenability of the		
	i.		to the proposed processing method.		
$\square$	4.1	Process Design			
			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		
		i.	characteristics	5.3.3, 5.3.4	
		ii.	This section is not applicable to existing operating plants.		
	4.2	Proposed Flow	sheets and Process Routes		
		i.	Provide a description or flowsheet of any current or proposed		
			process plant. For existing operating plants, identify who did		
1			the process flow design, description of the process from run-of-		
		1	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.	5.3.3, 5.3.4, 5.3.6	

	1	1		T
			Discuss processing method(s), equipment, plant capacity,	
			efficiencies, and personnel requirements.	
			Comminution	
			Gravity/Leaching/Flotation/Refinery etc.	
			Tails Handling	
			Reagents	
			• Water	
			Air and other utilities	5.3.3, 5.3.4,
		iv.	<ul> <li>Others (control system, metallurgical accounting)</li> </ul>	5.3.6, 5.4.2
		iii.		5.5.0, 5.4.2
			Illustrate the process plant general arrangement.	
	4.3	Material and E		
			Estimate requirements for energy, water, and process	
		i	materials.	5.3.3
5.	PROC	FSS PLANT DESI	GN, COST ESTIMATES AND IMPLEMENTATION SCHEDULE	
	5.1		•	
	5.1	Key Design Par		
		1	Discuss key design parameters such as throughput, head grade,	
		1	recovery	
	5.2	Plant Capacity	and Production Schedule	5.3.3, 5.4.2
			Provide a Life-of-Mine Plan (LoMP) including:	
			• Throughput	
			Feed grade	
			Final product quantity and quality	
			Recovery	
		i	Mill availability and utilization	
		ii	This section also applies to existing operating plants.	
	5.3	Plant Layout ar	nd Operations Description	
			Describe the various sections of the processing plant if	
			applicable:	
			• primary/secondary/tertiary crushing,	
			stockpiles and storage bins	
			• screening plant	
			conveying systems	
			washing plant	
			• grinding circuit and classification	
			gravity circuit	
			conditioning	
			• flotation	
			magnetic separation	
			leaching	
			• roasting	
			calcining	
			elution and electrowinning	
			carbon regeneration	
			• gold room	
			filtration	
			concentrate and tailings thickener.	
			<ul> <li>detoxification</li> </ul>	
			<ul> <li>pumping systems</li> </ul>	
	1	1		
			waste-water treatment plant	
		i	<ul> <li>waste-water treatment plant.</li> <li>reagent mixing and handling, lime slaking.</li> </ul>	5.3.3, 5.4.2

			metallurgical and assay laboratory	
			and other sections pertinent to the process.	
		ii	This section also applies to existing operating plants.	
5	5.4	Product and By	-product Specifications	
		i.	Discuss product and by-product specifications that may impact marketability	5.6.1, 5.6.2
		ii.	For existing plants, provide annual quantity and grade of products shipped or sold.	
5	5.5	List of Capital E	quipment and Works.	
		i	Provide a list of equipment, sizes and motor installed	5.3.3
		ii.	This section also applies to existing operating plants.	
5	5.6	Project Infrastr	uctures Layout	
		i.	Provide a summary of infrastructure and logistics requirements for the project, which could include roads, rails, port facilities, dams, dumps, stockpiles, leach pads, tailing storage facilities, power, and pipelines as applicable.	5.4.2
		ii.	This section also applies to existing operating plants.	
		5.6.1	Processing Plant	
		i.	<ul> <li>Provide maps showing locations of mineral processing facilities including:</li> <li>Site layout</li> <li>Stockpiles and storage bins</li> <li>Water supply system</li> <li>Air supply</li> <li>Power and electrical</li> <li>Communication</li> <li>Fuel storage</li> <li>Shops, offices, warehouses, security</li> <li>Roads</li> </ul>	5.4.
		5.6.3	Tailings Storage Facility	5.4.2
		5.6.4	Port Facility	5.4.2
		5.6.5	Power Source(s)	5.4.2
		5.6.6	Water Source(s)	5.4.2
		5.6.7	Road/Rail Facility	5.4.2
5	5.7	Capital Cost Est	timates	
		i	Estimate the capital cost for the processing plant	5.3.3, 5.4.2
		ii	List the capital expenditures for existing operating plants.	
5	5.8	Sustaining Capi	ital Cost Estimates	
		i	List all sustaining capital cost estimates in the span of the life of mine	5.3.3, 5.4.2
		ii	This section also applies to existing operating plants.	
5	5.9	Operating Cost	Estimate	
		i	Provide estimates of operating cost in currency figures and currency per tonne of ore milled, including power, reagents	5.3.3, 5.4.3, 5.6.3

		and consumables, and labor			
	ii	<ul> <li>State assumptions made concerning production cost including transportation, treatment, penalties, exchange rates, marketing, and other costs.</li> <li>Allowances should be made for the content of deleterious elements and the cost of penalties.</li> <li>Allowances made for royalties and streaming agreements payable, both to Government and private entities.</li> <li>Ownership, type, extent and condition of plant and equipment that is significant to the existing operation(s).</li> <li>Environmental, social, and labor costs.</li> </ul>	5.3.3, 5.4.3, 5.6.1, 5.6.2, 5.6.3, 5.6.4, 5.6.5, 5.6.6, 5.6.7, 5.6.8,		
		For existing operating plants, provide detailed historical breakdown of all costs to produce the final product per major section of the plant. Provide power consumption in kWh/t milled per section.	5.3.3, 5.4.3, 5.6.3		
5.10	Specifications	, Standards and Codes			
	i	State civil, mechanical, electrical, and structural codes used in the design	5.3.3, 5.4.2		
	ii	Not necessary for existing plants			
6. MAR	RET STUDY AND	CONTRACTS			
6.1					
	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.	5.6.1, 5.6.2, 5.6.4		
	ii.	Relate these studies and the results to the assumptions of the technical report.			
	<i>iii.</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, discuss whether the terms, rates or charges are within industry norms	5.6.3, 5.6.4		
	iv.	<i>State</i> products to be sold, customer specifications, testing, and acceptance requirements	5.6.2		
	<i>v</i> .	This applies also to existing operating plants.			
6.2	Commodity Pr				
	i.	State price and volume forecasts and the bases for the forecast.	5.6.2		
	ii.	Provide the summary description, source and confidence of method used to estimate the commodity price.	5.6.4		
	<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>	5.6.2		

	6.3	Sales Contracts		
			State whether the Issuer has signed any sales contracts with	
			product buyer(s).	5.6.2
		ii.	For existing plants, provide a list of buyers/off-takers.	
7.	RISK	ANALYSIS		
			information on environmental, permitting, and social or	
			rs and other risks to the processing plant, as well as actions that	
	i.		nitigate and/or manage the identified risks.	
	7.1	Environmental S		
			Write a summary of the results of any environmental studies	
			and a discussion of any known environmental issues that could	
			materially impact the issuer's ability to operate the processing plant.	4.3.8
	7.2			4.3.0
	7.2	Tailings Storage	Facility(les) Discuss Tailings Storage Facility(ies) (TSF)'s requirements and	
	1		plans for waste and tailings disposal, site monitoring and water	
	1		management both during operations and plant	
			decommissioning.	4.3.2, 4.3.3
	7.3	Water Managem		
			Discuss source of process and potable water; treatment of	
		i.	water discharge; recycling of process water.	4.3.2, 4.3.3
	7.4	Permits		
			Discuss permitting requirements of the processing plant, the	
			status of any permit applications and any known requirements	
			for processing.	4.3.4
	7.5	Social and Comm		
			Discuss any potential social or community related requirements	
			and plans for the processing plant and the status of any	
			negotiations or agreements with local communities; and a	
		i.	discussion of plant decommissioning requirements and costs.	4.3.5
8.	DISC			
		Provide a synthe		
		results and interp	pretations of the information and analysis being reported on.	
		Discuss any signi	ficant risks and uncertainties that could be expected to affect	
	1	-	confidence in the metallurgical inputs provided for the reserve	
	.		iss any reasonably foreseeable impacts of these risks and	
	i.		the project's potential economic viability or continued viability.	
	ii.		uacy of data, overall data integrity, and areas of uncertainty conclusions by the ACP-Metallurgical Engineer(s) as guided by	
	iii.		scope of work of this Technical Report	
	iv.		rgical Engineer(s) must discuss whether the Technical Report es set forth and whether it is PMRC 2020 compliant	
	Ιν.			
9.	RECO	MMENDATIONS		
	1		ove discussion and conclusions (under Sec. 8), a list of	
	i.	recommendation	as is made to guide the Issuer on the course of action to take.	
			rs of recommended work programs and a breakdown of costs	
	ii.	for each phase. If	f successive phases of work are recommended, each phase must	

		than two pl	n a decision point. The recommendations must not apply to more nases of work. The recommendations must state whether advancing uent phase is contingent on positive results in the previous phase	
10.	REFE	RENCES		(iv)
		i.	<i>List of references cited in the narrative, whether published or unpublished</i>	
		ii.	In the absence of a preferred format for citing references, one may use the American Psychological Association (APA) format.	
	APPE			
	1	Comments	on PMRC 2020 Table 1 Assessment and Reporting Criteria	
		i.	Mandatory comprehensive listing of PMRC 2020 Table 1 Check List of Assessment and Reporting Criteria with corresponding ACP's Comment	
	2	List of Acro		
	_	i.	Mandatory comprehensive listing of all acronyms used in the Technical Report	
	3. Etc.	Other Appe		
		i.	Process Design Criteria worksheet	
		ii.	Process Flow Diagram	
		iii.	Piping and Instrumentation Diagram	
		iv	Mass and/or Energy Balance	
		V	Major Equipment List	
		vi	Capital and Sustaining Capital Estimate worksheet	
		vii	Operating Cost Estimate worksheet	

## LEGEND:

Typeface Type	
Bold Typeface	Section and subsection headings in the Table of Contents & Main Text
Normal Typeface in Italics	Guidance notes
Text Color	
Black Font	based on TR-Form 01,02 and 03 of the PMRC 2007/ IRR 2010
Red Font	Taken from Table 1 of the PMRC 2020 & occasionally from main PMRC 2020
Green Font	Introduced by PMRCC

## **ANNEX III**

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

				TR-FORM 01 Exploration Results	TR-FORM 01 Mineral Resources	TR-FORM 02 Mineral Reserves	TR-FORM 03
		Introduction		Yes <sup>1</sup>	Yes	Yes	Yes
		PMRC 2020 Reporting Criterion	Commentary	Yes	Yes	Yes	Yes
General	(i)	The scope of work or terms of reference		Yes	Yes	Yes	Yes
	(ii)	The Accredited Competent Person's relationship to the issuer of the Public Report, if any		Yes	Yes	Yes	Yes
	(iii)	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		Yes	Yes	Yes	Yes
	(iv)	Sources of information and data contained in the Public Report or used in its preparation, with citations if applicable, and a list of references		Yes	Yes	Yes	Yes
	(v)	A title page and a table of contents that includes figures and tables		Yes	Yes	Yes	Yes

<sup>&</sup>lt;sup>1</sup> Yes – Include in Appendix 1 of the Technical Report / NA – Not Applicable /Do not include in Appendix 1 of the Technical Report

(vi)	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	Yes	Yes	Yes	Yes
(vii)	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	Yes	Yes	Yes	Yes
(viii)	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	Yes	Yes	Yes	Yes
(ix)	The units of measure, currency and relevant exchange rates	Yes	Yes	Yes	Yes
(x)	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	Yes	Yes	Yes	Yes

		(xi)	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	Yes	Yes	Yes	Yes
			Section 1: Project Outline	Yes	Yes	Yes	Yes
1.1	Location	1.1.1	Description of location and map (country, province, and closest town/city, coordinate systems and ranges, etc.)	Yes	Yes	Yes	Yes
		1.1.2	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	Yes	Yes	Yes	Yes
		1.1.3	For Exploration Results: A general topo-cadastral map / For Mineral Resources: Topo-cadastral map in sufficient For Mineral Reserves: 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
1.3	Adjacent properties	1.3.1	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.	Yes	Yes	Yes	NA
1.4	History	1.4.1	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	Yes	Yes	Yes	NA
		1.4.2	Previous successes or failures referred to transparently with reasons why the project should now be considered potentially economic	Yes	Yes	Yes	NA
		1.4.3	Known or existing historical Mineral Resource estimates and performance statistics from actual production in the past and in current operations	NA	Yes	Yes	NA
		1.4.4	Known or existing historical Mineral Reserve estimates and performance statistics from actual production in the past and in current operations	NA	NA	Yes	NA

1.5	Legal Aspects and Permitting	1.5.1	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	Yes	Yes	Yes	NA
		1.5.2	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)	Yes	Yes	Yes	NA
		1.5.3	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	Yes	Yes	Yes	NA
		1.5.4	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 tenurial instrument is defective, or an appropriate negative statement	Yes	Yes	Yes	NA
		1.5.5	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	Yes	Yes	Yes	NA
1.6	Royalties	1.6.1	The royalties or streaming agreements that are payable in respect of each mineral property	Yes	Yes	Yes	NA

	Liabilities	1.7.1	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	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	The regional geology	Yes	Yes	Yes	NA
		2.1.2	The project geology including mineral deposit type, geological setting, and style of mineralization	Yes	Yes	Yes	Yes
		2.1.3	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	Yes	Yes	Yes	Yes
		2.1.4	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	Yes	Yes	Yes	Yes
		2.1.5	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	Yes	Yes	Yes	Yes

		2.1.6	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	Yes	Yes	Yes	Yes
		2.1.7	The existence of reliable geological models and/or maps and cross sections that support interpretations	Yes	Yes	Yes	Yes-
	Se	ection 3:	Exploration and Drilling, Sampling Techniques, and Data	Yes	Yes	Yes	NA
3.1	Exploration	3.1.1	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.	Yes	Yes	Yes	NA
		3.1.2	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	Yes	Yes	Yes	NA

		3.1.3	Acknowledgment and appraisal of data from other parties, and reference to all data and information used from other sources	Yes	Yes	Yes	NA
		3.1.4	Distinction between data / information from the mineral property under discussion and that derived from surrounding properties	Yes	Yes	Yes	NA
		3.1.5	The methods for collar and down-hole survey, techniques, and expected accuracies of data as well as the grid system used	Yes	Yes	Yes	NA
		3.1.6	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	Yes	Yes	Yes	NA
		3.1.7	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.	Yes	Yes	s Yes	NA
		3.1.8	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	Yes	Yes	Yes	NA
3.2	Drilling Techniques	3.2.1	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.)	Yes	Yes	Yes	NA

		3.2.2	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	Yes	Yes	Yes	NA
		3.2.3	The nature of logging (qualitative or quantitative) and the use of core photography (or costean, channel, etc.)	Yes	Yes	Yes	NA
		3.2.4	The total length and percentage of the relevant intersections logged	Yes	Yes	Yes	NA
		3.2.5	Results of any down-hole surveys of the drill hole	Yes	Yes	Yes	NA
3.3	Sample Method, Collection, Capture, and Storage	3.3.1	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	Yes	Yes	Yes	NA
		3.3.2	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	Yes	Yes	Yes	NA
		3.3.3	A description of each data set (e.g., geology, grade, density, quality, geo-metallurgical characteristics, etc.), sample type, sample-size selection, and collection methods	Yes	Yes	Yes	NA
		3.3.4	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	Yes	Yes	Yes	NA

		3.3.5	A description of retention policy and storage of physical samples (e.g., core, sample reject, etc.)	Yes	Yes	Yes	NA
		3.3.6	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	Yes	Yes	Yes	NA
		3.3.7	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	Yes	Yes	Yes	NA
3.4	Sample Preparation and Analysis	3.4.1	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	Yes	Yes	Yes	NA
		3.4.2	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	Yes	Yes	Yes	NA
		3.4.3	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.)	Yes	Yes	Yes	NA

	Sampling Governance	3.5.1	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	Yes	Yes	Yes	NA
		3.5.2	The measures taken to ensure sample security and the Chain of Custody	Yes	Yes	Yes	NA
		3.5.3	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.)	Yes	Yes	Yes	NA
		3.5.4	The audit process and frequency (including dates of these audits) and disclose any material risks identified	Yes	Yes	Yes	NA
3.6	Quality Control/ Quality Assurance	3.6.1	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	Yes	Yes	Yes	Yes
3.7	Bulk Density	3.7.1	The method of bulk density determination with reference to the frequency of measurements, the size, nature, and representativeness of the samples	Yes	Yes	Yes	Yes
		3.7.2	Preliminary estimates or basis of assumptions made for bulk density	Yes	Yes	Yes	Yes
		3.7.3	The representativeness of bulk density samples	Yes	Yes	Yes	Yes

		3.7.4	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	Yes	Yes	Yes	Yes
3.8	Bulk Sampling and/or Trial- mining	3.8.1	The location of individual samples (including map)	Yes	Yes	Yes	Yes
		3.8.2	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	Yes	Yes	Yes	Yes
		3.8.3	The method of mining and treatment	Yes	Yes	Yes	Yes
		3.8.4	The degree to which the samples are representative of the various types and styles of mineralization and the mineral deposit as a whole	Yes	Yes	Yes	Yes
	Section 4: Estimation and Reporting of Exploration Results and Mineral Resources				Yes	Yes	Yes
4.1	Geological Model and Interpretation	4.1.1	The nature, detail, and reliability of geological information with which lithological, structural, mineralogical, alteration or other geological, geotechnical, and geo-metallurgical characteristics were recorded	Yes	Yes	Yes	Yes
		4.1.2	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	Yes	Yes	Yes	Yes

		4.1.3	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	Yes	NA	NA	NA
		4.1.4	Geological data that could materially influence the estimated quantity and quality of the Mineral Resource or Mineral Reserve	NA	Yes	Yes	NA
		4.1.5	Consideration given to alternative interpretations or models and their possible effect (or potential risk), if any, on the Mineral Resource estimate	NA	Yes	Yes	NA
		4.1.6	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.)	NA	Yes	Yes	NA
4.2	Estimation and Modeling Techniques	4.2.1	<b>For Exploration Targets:</b> A detailed description of the estimation techniques and assumptions used to determine the grade and tonnage ranges / <b>For Mineral Resources &amp; Mineral Reserves:</b> 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	Yes	Yes	Yes	NA

		4.2.2	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	NA	Yes	Yes	-
		4.2.3	Assumptions and justification of correlations made between variables	NA	Yes	Yes	NA
		4.2.4	Any relevant specialized computer program (software) used (with the version number) together with the parameters used	NA	Yes	Yes	NA
		4.2.5	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	NA	Yes	Yes	NA
		4.2.6	The assumptions made regarding the estimation of any co-products, by-products or deleterious elements	NA	Yes	Yes	NA
4.3	Reasonable Prospects for Eventual Economic Extraction (RPEEE)	4.3.1	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	NA	Yes	Yes	NA
		4.3.2	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	NA	Yes	Yes	NA

		4.3.3	The infrastructure including, but not limited to, power, water, and site access	NA	Yes	Yes	NA
		4.3.4	The legal, governmental, permitting, and statutory parameters	NA	Yes	Yes	NA
		4.3.5	The environmental and social (or community) parameters	NA	Yes	Yes	NA
		4.3.6	The marketing parameters	NA	Yes	Yes	NA
		4.3.7	The economic assumptions and parameters, including, but not limited to, commodity prices, sales volumes, and potential capital and operating costs	NA	Yes	Yes	NA
		4.3.8	Material risks, e.g., legal, environmental, climatic, etc.	NA	Yes	Yes	NA
		4.3.9	The parameters used to support the concept of 'eventual' in the case of Mineral Resources	NA	Yes	Yes	NA
4.4	Classification Criteria	4.4.1	The criteria and methods used as the basis for the classification of the Mineral Resources into varying confidence categories	NA	Yes	Yes	NA
4.5	Discussion of Relative Accuracy/ Confidence	4.5.1	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.	NA	Yes	Yes	NA

4.6	Reporting	4.6.1	Specific grades / qualities and widths.	Yes	-	-	NA
		4.6.2	The reporting of low- and high-grade intersections and corresponding widths, together with their spatial location to avoid misleading reporting of Exploration Results				NA
		4.6.3	A statement on whether grades are regional averages or if these are selected individual samples taken from the mineral property under discussion	Yes	NA	NA	NA
		4.6.4	The detail of the surface or underground mine, residue stockpile, remnants, tailings, and existing pillars or other sources in a Mineral Resource statement	Yes	NA	NA	NA
		4.6.5	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)	NA	Yes	Yes	NA
		4.6.6	The basis for the estimate and if not 100%, the attributable percentage relevant to the entity commissioning the Public Report	Yes	Yes	Yes	NA
		4.6.7	The basis of the Metal Equivalent formulae, if relevant	NA	Yes	Yes	Yes
			Section 5: Technical Studies	Yes	Yes	Yes	Yes
5.1	Introduction	5.1.1	The level of study – Scoping, Pre-Feasibility, Feasibility or ongoing Life-of-Mine Plan	NA	Yes	Yes	Yes
		5.1.2	A summary table of the Modifying Factors used to convert the Mineral Resource to Mineral Reserve	NA	NA	Yes	Yes
5.2	Mining Design	5.2.1	Assumptions regarding mining methods and parameters when estimating Mineral Resources	NA	Yes	NA	Yes

		5.2.2	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	N	4	NA	NA	Yes
		5.2.3	Mineral Resource models used in the study	N	4	Yes	Yes	Yes
		5.2.4	<b>For Mineral Resources:</b> The basis of the cut-off grade(s) / <b>For Mineral Reserves:</b> The basis of (the adopted) cut-off grade(s) or quality parameters applied, including metal equivalents if relevant	N,	4	Yes	Yes	Yes
		5.2.5	The mining method(s) to be used	N,	4	NA	Yes	Yes
		5.2.6	For open cut mines, a discussion of pit slopes, slope stability, and strip ratio	N,	4	NA	Yes	Yes
		5.2.7	For underground mines, a discussion of mining method, geotechnical considerations, mine design characteristics, and ventilation/cooling requirements	N,	4	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	N	4	NA	Yes	Yes
		5.2.9	Optimization methods and software used in planning, including a discussion of the constraints	N	4	NA	Yes	Yes
<b>5.3</b>	Metallurgical Testworks	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	N,	4	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	<b>For Mineral Resources:</b> 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 / <b>For Mineral Reserves:</b> 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	<b>For Mineral Resources:</b> 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	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	NA	NA	Yes	Yes
		5.4.3	Statement showing that all necessary logistics have been considered	NA	NA	Yes	Yes
5.5	Environmental & Social	5.5.1	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	Yes	Yes	Yes	NA
		5.5.2	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	Yes	Yes	Yes	NA
		5.5.3	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	Yes	Yes	Yes	NA
		5.5.4	Legislated social management programs that may be required and content and status of these	Yes	Yes	Yes	NA
		5.5.5	Material socio-economic and cultural impacts that need to be managed, and where appropriate the associated costs	Yes	Yes	Yes	NA

5.6	Market Studies & Economic Criteria	5.6.1	<u>For Mineral Resources:</u> Technical and economic factors likely to influence the RPEEE / <u>For Mineral Reserves:</u> 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	Environmental, social, and labor costs	NA	NA	Yes	Yes

5.7	Risk Analysis	5.7.1	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	Ŷ	'es	Yes	Yes	Yes
5.8	Economic Analysis	5.8.1	<b>For Mineral Resources:</b> The basis on which RPEEE has been determined. Any material assumptions made in determining the 'RPEEE' / <b>For Mineral Reserves:</b> The inclusion of any Inferred Mineral Resources is not allowed in the Pre-Feasibility and Feasibility Studies economic analysis	٨	IA	Yes	Yes	Yes
		5.8.2	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	٨	IA	NA	Yes	Yes
		5.8.3	Accounting for royalties and streaming agreements. A discussion of net present value (NPV), internal rate of return (IRR) and payback period of capital	٨	IA	NA	Yes	Yes
		5.8.4	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	٨	IA	NA	Yes	Yes
		Sectio	on 6: Estimation and Reporting of Mineral Reserves	٨	<b>I</b> A	NA	Yes	NA
6.1	Estimation and Modeling Techniques	6.1.1	A description of the Mineral Resource estimate used as a basis for the conversion to a Mineral Reserve	٨	IA	NA	Yes	NA
		6.1.2	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	٨	VA	NA	Yes	NA

		6.1.3	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).	NA	NA	Yes	NA
		6.1.4	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	NA	NA	Yes	NA
6.2	Classification Criteria	6.2.1	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	NA	NA	Yes	NA
6.3	Reporting	6.3.1	The proportion of Probable Mineral Reserves, which have been derived from Measured Mineral Resources (if any), including the reason(s) thereof	NA	NA	Yes	NA
		6.3.2	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	NA	NA	Yes	NA
		6.3.3	A comparison with the previous Mineral Reserve estimates. Any historical trends (e.g., global bias)	NA	NA	Yes	NA
		6.3.4	The inclusion or exclusion of Mineral Resources in Mineral Reserves	NA	NA	Yes	NA
			Section 8. Other Relevant Information	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
S	Section 10: Report	ing for C	oal Resources and Coal Reserves (Note: Applicable to Coal Reports Only)				
	Specific	10.1.1	Appendix 6 of the Code provides additional criteria for reporting on coal deposits	Yes	Yes	Yes	NA
10.1	Reporting for Coal	10.1.2	<i>Guidance is available in relevant national standards for Coal Exploration Results, Coal Resources, and Coal Reserves reporting.</i>	Yes	Yes	Yes	NA
10.2	Geological Setting, Coal	10.2.1	The project geology including coal deposit type, geological setting, and coal seams / zones present	Yes	Yes	Yes	NA
10.2	Deposit, Mineralization	10.2.2	The structural complexity, physical continuity, coal rank, qualitative and quantitative properties of the significant coal seams or zones on the coal property	Yes	Yes	Yes	NA
10.3	Drilling Techniques	10.3.1	Core recoveries and method of calculation. Core recoveries in cored boreholes should be in excess of 95% by length within the coal seam intersection	Yes	Yes	Yes	NA

10.4	Relative Density to replace Bulk Density	10.4.1	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	Yes	Yes	Yes	NA
10.5	Bulk- Sampling and/or trial- mining	10.5.1	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	Yes	Yes	Yes	NA
10.6	Reasonable Prospects for Eventual Economic Extraction	10.6.1	The basis on which reasonable prospects for eventual economic extraction has been determined. Any material assumptions made in determining the 'RPEEE'	Yes	Yes	Yes	NA
		10.7.1	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.).	NA	Yes	Yes	NA
10.7	Coal Resource and Coal Reserve Reporting	10.7.2	<b>For Mineral Resources:</b> A Coal Resource only includes the coal seam(s) above the minimum thickness cut-off and the coal quality cut-off(s) / <b>For Mineral Reserves:</b> 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	The reporting basis with particular reference to moisture and relative density.	NA	Yes	Yes	NA

## LEGEND:

Typeface Type	
Normal Typeface in Italics	Guidance notes
Text Color	
Red Font	Taken from Table 1 of the PMRC 2020