

Instructions for Applying for Pre-Qualification for Taipower's Term Coal Tenders

1. Purpose of Pre-Qualification

Taiwan Power Company (“Taipower”) is inviting all interested suppliers (“Applicant(s)”) to submit their qualification documents for pre-qualification evaluation. Based on this evaluation, Taipower will revise the current Qualified Suppliers Lists of Term Coal Tenders (hereinafter referred to as “Qualified Suppliers Lists”) for Quality Specifications including A1(A1-1), A2(A2-1), A3(A3-1), A4 (A4-1), B(B-1), C1, C2, C3, C4, D1, D2(D2-1), D3, D4, G1 and G2 **as shown in Attachments A1, A2, A3, A4, B, C1, C2, C3, C4, D1, D2, D3, D4, G1 and G2 of the Instructions for Applying for Pre-Qualification for Taipower's Term Coal Tenders (“Instructions”), respectively.** All the qualified suppliers on the Qualified Suppliers Lists for a specific quality specifications will be invited to participate in future term coal tenders for the corresponding coal quality specifications unless the Applicant is prohibited from participating in tendering or being awarded by the Government Procurement Act (hereinafter referred to as “Act”).

Taipower will use selective tendering procedures, as described in Articles 18, 20 and 21 of the Act, to proceed with such term coal tenders.

An Applicant who has been previously qualified and listed on the current Qualified Suppliers Lists is required to provide updated supplier and mine qualification information for Taipower's review in order to remain on the lists. **If the above-mentioned updated information does not meet Taipower's criteria or the Applicant does not provide the updated supplier and mine qualification information, the said Applicant shall be removed from the Qualified Suppliers Lists.**

2. Basic Qualification Requirements for Applicant and Its Proposed Mine

(1) Basic Qualifications for an Applicant :

A. An Applicant proposing to supply coal produced from a mine located in a country or an area other than China must have the right to sell the coal produced from the proposed mine and must meet one of the following qualifications:

(a) Owner who

- (i) has been granted the **mining permit** (such as coal mining license, coal mining lease or equivalent documents) by competent governmental authority and whose name appears on the mining permit for the proposed mine; or
- (ii) is one of two or more companies holding the competent **mining permit**, its prorated share of the quantity of exported coal from the proposed mine satisfies the criteria set forth in section 2.(2)C of the Instructions, and its name is one of the names on the document of mining permit.

(b) Producer who

has signed a **valid contract** with a mining permit holder, which authorizes the Applicant to mine and sell the coal produced from the proposed mine. The duration of foregoing contract should not be less than the term of Taipower's term coal contract in tendering.

(c) Sales Company who

(i) is **wholly owned** by Owner or Producer of the proposed mine; or

(ii) is a **wholly-owned** sales company of a joint venture of the proposed mine. In addition, the said joint venture has already established another **wholly-owned** company to hold the relevant mining permit for the proposed mine and whose name shall appear on the document of mining permit.

(iii) is an **exclusively duly authorized international** sales company of the proposed mine. The sales company has the exclusive right to sell the coal produced from the proposed mine to the international market, which means all coal produced from the proposed mine can **ONLY** been sold to customers through the sales company. Under such circumstance, Owner or Producer of the proposed mine is not allowed to participate in this PQ process.

B. An Applicant proposing to supply coal from China must be:

(a) incorporated under the law of China which has received the competent China authority's approval to export coal to Taiwan; or

(b) incorporated under the law of third country or area other than Taiwan and China area and must be appointed and authorized by a company in China which has received the competent China authority's approval to export coal to Taiwan.

(2) Basic Qualification Requirements for Applicant's proposed Mine:

A. The proposed mine must be in operation.

B. The proposed mine must hold a valid mining permit issued by competent governmental authority and the Applicant must provide a photocopy of such permit.

C. The quantity of exported coal produced from a proposed mine, with coal quality meeting Taipower's quality specifications as shown in Attachment A1, A2, A3, A4, B, C1, C2, C3, C4, D1, D2, D3, D4, G1 and G2, shall meet at least one of the following criteria:

(a) The accumulated exported quantity within the last 5 years (**2019 to 2023**, hereinafter referred to as "Last 5 Years") is not less than the total nominal contractual quantity of Taipower's term tenders. For example, for a one-year term tender, The accumulated exported quantity within the Last 5 Years is not less than 500,000 metric tons (= 500,000 metric tons X 1); for a 10-year term tender, The accumulated exported quantity within the

Last 5 Years is not less than 5,000,000 metric tons (= 500,000 metric tons X 10);

- (b) The accumulated exported coal quantity within the Last 5 Years under a single contract signed by the Applicant with its contracting party is not less than two fifths of the total nominal contractual quantity of Taipower's term tenders. For example, for a one-year term tender, the accumulated exported quantity within the Last 5 Years under a single contract signed by the Applicant with its contracting party is not less than 200,000 metric tons (= 500,000 metric tons X 1 X 40%); for a 10-year term tender, the accumulated exported quantity within the Last 5 Years under a single contract signed by the applicant with its contracting party is not less than 2,000,000 metric tons (= 500,000 metric tons X 10 X 40%);
- (c) The accumulated exported coal quantity within any 12 consecutive months of the Last 5 Years is not less than 600,000 metric tons.

Note:

The quality certificated of export shipments as evidences for Section 2.(2).C shall be issued by the inspection companies of international standing. For future Taipower's term coal tenders, only qualified suppliers whose accumulated exported coal quantities produced from qualified mines meet at least one of the criteria specified in Section 2.(2).C will be invited to participate in the corresponding term coal tenders.

- D. If the proposed mine which meets the Quality Specification A1 is from Australia, Canada, China, South Africa or the United States, the proposed mine will be attributed to A1-1 automatically.
- E. If the proposed mine which meets the Quality Specification A2 is from Australia, Canada, China, South Africa or the United States, the proposed mine will be attributed to A2-1 automatically.
- F. If the proposed mine which meets the Quality Specification A3 is from Australia, Canada, China, South Africa or the United States, the proposed mine will be attributed to A3-1 automatically.
- G. If the proposed mine which meets the Quality Specification A4 is from Australia, Canada, China, South Africa or the United States, the proposed mine will be attributed to A4-1 automatically.
- H. If the proposed mine which meets the Quality Specification B is from Australia, Canada, China, South Africa or the United States, the proposed mine will be attributed to B-1 automatically.
- I. If the proposed mine which meets the Quality Specification D2 is from Australia, Canada, China, South Africa or the United States, the proposed mine will be attributed to D2-1 automatically.
- J. The remaining mine life of the proposed mine must not be less than the term of term coal contract in tendering. The calculation of remaining mine life is set forth in the relevant Application Form.

- K. The facilities of the loading port for the proposed mine must be adequate for accommodating vessels to be nominated by Taipower. The loading port and berth shall at least be able to accommodate Panamax size vessel with minimum draft of channel and berth no less than 14.5 meters.
- L. The proposed mine must be evaluated and determined by Taipower as a qualified mine for supplying the coal under term coal tenders.

3. Qualification Documents and Application

- (1) If your company **IS** a qualified supplier with a qualified mine on current Taipower's Qualified Suppliers Lists, please provide the updated information by completing the attached forms which are designated as **Attachment E**.
- (2) If your company is a new Applicant who **IS NOT** on current Taipower's Qualified Suppliers Lists, or if your company is a qualified supplier who **IS** on current Taipower's Qualified Suppliers Lists but plans to propose a mine which **HAS NOT** been qualified and listed on Taipower's Qualified Suppliers Lists, please provide the required information for pre-qualification evaluation by completing the attached forms which are designated as **Attachment F**.
- (3) Any document submitted by Applicant that is not written in English or Chinese shall have an English translation attached thereto. The English translation shall be certified by the Chief Executive Officer of the Applicant and notarized as the true and correct translation of the original.
- (4) Such qualification documents should be submitted to:

Thermal Coal Section
Department of Fuels
Taiwan Power Company
9Fl., No. 242, Roosevelt Road, Section 3, Taipei City 100208, Taiwan, R.O.C.
Tel. No.: 886-2-2366-6755
Fax No.: 886-2-2367-0597
Email: u330074@taipower.com.tw

The qualification documents should be received by Taipower no later than **17:00 3/29 (Taipei Time)**. If you have any questions concerning what the required information is or the qualification documents, please submit your questions in writing no later than **2/16 (Taipei Time)**. Taipower will provide written reply to an inquiring Applicant not later than **2/23 (Taipei time)**, and may publish such reply, if necessary.

- (5) In accordance with Article 108 of the Act, the R.O.C. central government has established a procurement control unit to monitor and supervise procurement affairs. The address, telephone and fax number of such unit in the R.O.C. central government are as follows:

A. Central Procurement Control Unit

Procurement and Public Construction Commission of Executive Yuan, R.O.C.
Address: 9F., No.3, Song-Ren Road, Xinyi Dist., Taipei City 110038,
Taiwan, R.O.C.
Tel.: 886-2-8789-7548

Fax: 886-2-8789-7554

B. Procurement Control Unit of Ministry of Economic Affairs, R.O.C.
Address: No. 15, Fu-Zhou Street, Zhongzheng Dist., Taipei City 100210,
Taiwan, R.O.C.
Tel.: 886-2-23971592
Fax: 886-2-2397-1593

C. Investigation Bureau, Ministry of Justice
P. O. Box 60000, Xindian, New Taipei City, Taiwan, R.O.C.
Tel. : 886-2-2917-7777

D. The Taipei City Field Office, Investigation Bureau, Ministry of Justice
P. O. Box 60000, Taipei City, Taiwan, R.O.C.
Tel.: 886-2-2732-8888

E. Agency Against Corruption, Ministry of Justice
5F., No. 318 Songjiang Rd., Zhongshan Dist., Taipei City 104223, Taiwan, R.O.C.
Tel : 886-800-286-586
Fax : 886-2-2562-1156
P.O. BOX 153, Academia Historica, Taipei City 10099, Taiwan, R.O.C.
E-Mail : gechief-p@mail.moj.gov.tw

4. Pre-Qualification Procedures

- (1) Applicant should submit its qualification documents by the deadline specified above. Qualification documents submitted after the deadline will be evaluated only if time permits.
- (2) Based on the qualification documents submitted by Applicant, if both the Applicant and its proposed mine from which it proposes to furnish coal meet Taipower's qualification requirements as described above, the proposed mine will be put into the Preliminary Proposed Mine List for review and approval.
- (3) After the above list is approved, one of two examination methods below will be used at Taipower's sole discretion for the purpose of verification and evaluation.
 - A. A coal mine inspection team will be dispatched in due course to visit the mines; or**
 - B. If there were two shipments of the coal from the proposed mine delivered to Taipower through spot contracts during the past two years, the quality could meet the requirements of the contracts and without any burning problems at power plants.**
- (4) If an Applicant and its proposed mine are determined, by either one of the examination process, to be qualified, the Applicant and its mine will be placed on the Qualified Suppliers Lists. The validity of the Qualified Suppliers Lists will be expired on the date of next Pre-Qualification Procedures completed and the new Qualified Suppliers Lists established. All the qualified suppliers on the Qualified Suppliers Lists will be invited for Taipower's term coal tenders unless

the Applicant is prohibited from participating in tendering or being awarded by the Act.

Nevertheless, a Qualified Supplier qualified through the aforesaid examination method 4.(3)B will be only invited to participate in coal tenders with contract term no more than three (3) years.

- (5) Notwithstanding the procedures stated in paragraphs (2), (3), and (4) of this section, if an Applicant and its proposed mine meet Taipower's criteria after evaluation of the qualification documents and, if the proposed mine has been previously inspected by Taipower and has been determined after the inspection process to be qualified, the Applicant and its proposed mine will be placed on the Qualified Suppliers Lists, unless otherwise determined by Taipower that the proposed mine shall be further inspected. In addition, Taipower shall have the right at its discretion to dispatch coal mine inspection team in due course to visit the mines for the purposes of verification.
- (6) Taipower will make an announcement in the form of public notice for pre-qualification annually. All previously qualified suppliers will be asked by Taipower to provide updated supplier and mine qualification information on a yearly basis. If the updated information does not meet Taipower's criteria or the supplier does not provide the updated supplier and mine qualification information, the supplier and mine shall be removed from the Qualified Suppliers Lists.
- (7) An Applicant submitting qualification documents is required to certify, in the Certificate form enclosed, that, (a) it has the right to sell and export the coal produced from the proposed mine; (b) the information submitted in and with its pre-qualification Application Form is true and correct; (c) it has not forged, or altered without authorization, any documents contained in or related to the qualification documents, and (d) it has not violated, and will not violate, the Act, including (i) Paragraph 2 of Article 15 – the supplier or the responsible personnel of the supplier has no interests involved with the head of Taipower, his or her spouse, relatives by blood or by marriage within three degrees, or other relatives who live with and share the property with him, and (ii) Article 38 – the supplier is not a political party or affiliated with a political party. (Attachment E-1 or F-1)

Violation of the certification will result in immediate disqualification from these pre-qualification procedures, deletion from the Qualified Suppliers Lists and cancellation of any contract that may have been awarded.

Attachment A1**Quality Specifications for Taipower's Term Tender of General Bituminous Coal – Quality A1****October, 2016**

Item			Minimum / Maximum		
1. Gross Calorific Value			5,900		Min.
(kcal/kg)	A.R.		(Remark 1)		
2. Total Moisture			15		Max.
(%)	A.R.		(Remark 2)		
3. Ash Content			15		Max.
(%)	A.D.				
4. Sulphur Content			0.9		Max.
(%)	A.D.				
5. Volatile Matter			26		Min.
(%)	A.D.				
6. Fixed Carbon			60		Max.
(%)	A.D.				
7. Mercury Content			0.12		Max.
(mg/kg)					
8. Grindability			45		Min.
(H.G.I.)					
9. Ash Fusion Temperature			1,150		Min.
(reducing, H=W)	(°C)				
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na ₂ O in Ash			Remark 3		
(%)					

Remarks:

1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.

2. Total Moisture can be raised to 18% max if Ash Content is less than 10%.

3. Na₂O in Ash

(1) If the actual Ash Content is greater than 7%,

Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.

(2) If the actual Ash Content is equal to or less than 7%,

Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.

4. A.R. means As Received Basis; A.D. means Air Dried Basis.

Attachment A2**Quality Specifications for Taipower's Term Tender of General Bituminous Coal – Quality A2****October, 2016**

Item			Minimum / Maximum		
1. Gross Calorific Value (kcal/kg) A.R.			6,200		Min. (Remark 1)
2. Total Moisture (%) A.R.			15		Max. (Remark 2)
3. Ash Content (%) A.D.			14		Max.
4. Sulphur Content (%) A.D.			0.7		Max.
5. Volatile Matter (%) A.D.			26		Min.
6. Fixed Carbon (%) A.D.			60		Max.
7. Mercury Content (mg/kg)			0.12		Max.
8. Grindability (H.G.I.)			45		Min.
9. Ash Fusion Temperature (reducing, H=W) (°C)			1,200		Min.
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na ₂ O in Ash (%)			Remark 3		

Remarks:

1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.

2. Total Moisture can be raised to 18% max if Ash Content is less than 10% .

3. Na₂O in Ash

(1) If the actual Ash Content is greater than 7%,

Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.

(2) If the actual Ash Content is equal to or less than 7%,

Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.

4. A.R. means As Received Basis; A.D. means Air Dried Basis.

Attachment A3**Quality Specifications for Taipower's Term Tender of Low Ash General Bituminous Coal – Quality A3****January, 2020**

Item			Minimum / Maximum		
1. Gross Calorific Value (kcal/kg) A.R.			6,200		Min. (Remark 1)
2. Total Moisture (%) A.R.			15		Max. (Remark 2)
3. Ash Content (%) A.D.			10		Max.
4. Sulphur Content (%) A.D.			0.7		Max.
5. Volatile Matter (%) A.D.			26		Min.
6. Fixed Carbon (%) A.D.			60		Max.
7. Mercury Content (mg/kg)			0.12		Max.
8. Grindability (H.G.I.)			45		Min.
9. Ash Fusion Temperature (reducing, H=W) (°C)			1,200		Min.
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na ₂ O in Ash (%)			Remark 3		

Remarks:

1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.

2. Total Moisture can be raised to 18% max if Ash Content is less than 10% .

3. Na₂O in Ash

(1) If the actual Ash Content is greater than 7%,

Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.

(2) If the actual Ash Content is equal to or less than 7%,

Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.

4. A.R. means As Received Basis; A.D. means Air Dried Basis.

Attachment A4**Quality Specifications for Taipower's Term Tender of General Bituminous Coal – Quality A4****December, 2022**

Item			Minimum / Maximum		
1. Gross Calorific Value (kcal/kg) A.R.			6,200		Min. (Remark 1)
2. Total Moisture (%) A.R.			15		Max. (Remark 2)
3. Ash Content (%) A.D.			14		Max.
4. Sulphur Content (%) A.D.			0.7		Max.
5. Volatile Matter (%) A.D.			26		Min.
6. Fixed Carbon (%) A.D.			60		Max.
7. Mercury Content (mg/kg)			0.12		Max.
8. Grindability (H.G.I.)			42		Min.
9. Ash Fusion Temperature (reducing, H=W) (°C)			1,200		Min.
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na ₂ O in Ash (%)			Remark 3		

Remarks:

1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.

2. Total Moisture can be raised to 18% max if Ash Content is less than 10% .

3. Na₂O in Ash

(1) If the actual Ash Content is greater than 7%,

Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.

(2) If the actual Ash Content is equal to or less than 7%,

Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.

4. A.R. means As Received Basis; A.D. means Air Dried Basis.

Attachment B**Quality Specifications for Taipower's Term Tender of General Bituminous Coal – Quality B****June, 2018**

Item			Minimum / Maximum		
1. Gross Calorific Value (kcal/kg) A.R.			5,500		Min. (Remark 1)
2. Total Moisture (%) A.R.			20		Max. (Remark 2)
3. Ash Content (%) A.D.			8		Max.
4. Sulphur Content (%) A.D.			0.7		Max.
5. Volatile Matter (%) A.D.			26		Min.
6. Fixed Carbon (%) A.D.			60		Max.
7. Mercury Content (mg/kg)			0.12		Max.
8. Grindability (H.G.I.)			42		Min.
9. Ash Fusion Temperature (reducing, H=W) (°C)			1,150		Min.
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na ₂ O in Ash (%)			(Remark 3)		

Remarks:

1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.

2. Total Moisture can be raised to 22% max if Ash Content is less than 10% .

3. Na₂O in Ash

(1) If the actual Ash Content is greater than 7%,

Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.

(2) If the actual Ash Content is equal to or less than 7%,

Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.

4. A.R. means As Received Basis; A.D. means Air Dried Basis.

Attachment C1**Quality Specifications for Taipower's Term Tender of Low-Ash & Extra Low-Sulphur Subbituminous Coal – Quality C1****October, 2016**

Item			Minimum / Maximum		
1. Gross Calorific Value			4,800		Min.
	(kcal/kg)	A.R.	(Remark 1)		
2. Total Moisture	(%)	A.R.	30		Max.
3. Ash Content	(%)	A.D.	4		Max.
4. Sulphur Content	(%)	A.D.	0.12		Max.
5. Volatile Matter	(%)	A.D.	26		Min.
6. Fixed Carbon	(%)	A.D.	60		Max.
7. Mercury Content	(mg/kg)		0.12		Max.
8. Grindability	(H.G.I.)		42		Min.
9. Ash Fusion Temperature					
	(reducing, H=W)	(°C)	1,150		Min.
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na₂O in Ash					(Remark 2)
	(%)				

Remarks:**1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.****2. Na₂O in Ash****(1) If the actual Ash Content is greater than 7%,**Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.**(2) If the actual Ash Content is equal to or less than 7%,**Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max..**3. A.R. means As Received Basis; A.D. means Air Dried Basis.**

Attachment C2**Quality Specifications for Taipower's Term Tender of Low-Ash & Extra Low-Sulphur Subbituminous Coal – Quality C2****October, 2016**

Item			Minimum / Maximum		
1. Gross Calorific Value			4,800		Min.
	(kcal/kg)	A.R.	(Remark 1)		
2. Total Moisture	(%)	A.R.	30		Max.
3. Ash Content	(%)	A.D.	6		Max.
4. Sulphur Content	(%)	A.D.	0.2		Max.
5. Volatile Matter	(%)	A.D.	26		Min.
6. Fixed Carbon	(%)	A.D.	60		Max.
7. Mercury Content	(mg/kg)		0.12		Max.
8. Grindability	(H.G.I.)		42		Min.
9. Ash Fusion Temperature			1,150		Min.
	(reducing, H=W)	(°C)			
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na₂O in Ash	(%)		Remark 2		

Remarks:

- 1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.**
- 2. Na₂O in Ash**
 - (1) If the actual Ash Content is greater than 7%,
Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.**
 - (2) If the actual Ash Content is equal to or less than 7%,
Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.**
- 3. A.R. means As Received Basis; A.D. means Air Dried Basis.**

Attachment C3**Quality Specifications for Taipower's Term Tender of Low-Ash & Extra Low-Sulphur Subbituminous Coal – Quality C3****January, 2018**

Item			Minimum / Maximum		
1. Gross Calorific Value			4,500		Min.
	(kcal/kg)	A.R.	(Remark 1)		
2. Total Moisture	(%)	A.R.	32		Max.
3. Ash Content	(%)	A.D.	6		Max.
4. Sulphur Content	(%)	A.D.	0.2		Max.
5. Volatile Matter	(%)	A.D.	26		Min.
6. Fixed Carbon	(%)	A.D.	60		Max.
7. Mercury Content	(mg/kg)		0.12		Max.
8. Grindability	(H.G.I.)		42		Min.
9. Ash Fusion Temperature			1,150		Min.
	(reducing, H=W)	(°C)			
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na₂O in Ash	(%)		Remark 2		

Remarks:

- Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.
- Na₂O in Ash
 - If the actual Ash Content is greater than 7%,
Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.
 - If the actual Ash Content is equal to or less than 7%,
Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.
- A.R. means As Received Basis; A.D. means Air Dried Basis.

Attachment C4**Quality Specifications for Taipower's Term Tender of Low-Ash & Extra Low-Sulphur Subbituminous Coal – Quality C4****December, 2022**

Item			Minimum / Maximum		
1. Gross Calorific Value			4,200		Min.
	(kcal/kg)	A.R.		(Remark 1)	
2. Total Moisture	(%)	A.R.	39		Max.
3. Ash Content	(%)	A.D.	6		Max.
4. Sulphur Content	(%)	A.D.	0.2		Max.
5. Volatile Matter	(%)	A.D.	26		Min.
6. Fixed Carbon	(%)	A.D.	60		Max.
7. Mercury Content	(mg/kg)		0.12		Max.
8. Grindability	(H.G.I.)		42		Min.
9. Ash Fusion Temperature			1,150		Min.
	(reducing, H=W)	(°C)			
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na₂O in Ash	(%)				Remark 2

Remarks:

- Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.
- Na₂O in Ash
 - If the actual Ash Content is greater than 7%,
Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.
 - If the actual Ash Content is equal to or less than 7%,
Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.
- A.R. means As Received Basis; A.D. means Air Dried Basis.

Attachment D1**Quality Specifications for Taipower's Term Tender of General Subbituminous Coal – Quality D1****October, 2016**

Item			Minimum / Maximum		
1. Gross Calorific Value			5,000		Min.
	(kcal/kg)	A.R.	(Remark 1)		
2. Total Moisture	(%)	A.R.	28		Max.
3. Ash Content	(%)	A.D.	8		Max.
4. Sulphur Content	(%)	A.D.	0.9		Max.
5. Volatile Matter	(%)	A.D.	28		Min.
6. Fixed Carbon	(%)	A.D.	60		Max.
7. Mercury Content	(mg/kg)		0.12		Max.
8. Grindability	(H.G.I.)		42		Min.
9. Ash Fusion Temperature			1,150		Min.
	(reducing, H=W)	(°C)			
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na₂O in Ash	(%)		Remark 2		

Remarks:

1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.

2. Na₂O in Ash

(1) If the actual Ash Content is greater than 7%,

Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.

(2) If the actual Ash Content is equal to or less than 7%,

Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.

3. A.R. means As Received Basis; A.D. means Air Dried Basis.

Attachment D2**Quality Specifications for Taipower's Term Tender of General Subbituminous Coal – Quality D2****April, 2017**

Item			Minimum / Maximum		
1. Gross Calorific Value			5,000		Min.
	(kcal/kg)	A.R.	(Remark 1)		
2. Total Moisture	(%)	A.R.	28		Max.
3. Ash Content	(%)	A.D.	11		Max.
4. Sulphur Content	(%)	A.D.	0.9		Max.
5. Volatile Matter	(%)	A.D.	28		Min.
6. Fixed Carbon	(%)	A.D.	60		Max.
7. Mercury Content	(mg/kg)		0.12		Max.
8. Grindability	(H.G.I.)		42		Min.
9. Ash Fusion Temperature			1,150		Min.
	(reducing, H=W)	(°C)			
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na₂O in Ash	(%)		Remark 2		

Remarks:**1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.****2. Na₂O in Ash****(1) If the actual Ash Content is greater than 7%,**Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.**(2) If the actual Ash Content is equal to or less than 7%,**Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.**3. A.R. means As Received Basis; A.D. means Air Dried Basis.**

Attachment D3**Quality Specifications for Taipower's Term Tender of General Subbituminous Coal – Quality D3****January, 2018**

Item			Minimum / Maximum		
1. Gross Calorific Value			4,700		Min.
	(kcal/kg)	A.R.		(Remark 1)	
2. Total Moisture	(%)	A.R.	32		Max.
3. Ash Content	(%)	A.D.	8		Max.
4. Sulphur Content	(%)	A.D.	0.9		Max.
5. Volatile Matter	(%)	A.D.	28		Min.
6. Fixed Carbon	(%)	A.D.	60		Max.
7. Mercury Content	(mg/kg)		0.12		Max.
8. Grindability	(H.G.I.)		42		Min.
9. Ash Fusion Temperature			1,150		Min.
	(reducing, H=W)	(°C)			
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na₂O in Ash	(%)				Remark 2

Remarks:**1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.****2. Na₂O in Ash****(1) If the actual Ash Content is greater than 7%,****Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.****(2) If the actual Ash Content is equal to or less than 7%,****Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.****3. A.R. means As Received Basis; A.D. means Air Dried Basis.**

Attachment D4**Quality Specifications for Taipower's Term Tender of General Subbituminous Coal – Quality D4****June, 2022**

Item			Minimum / Maximum		
1. Gross Calorific Value			5,000		Min.
	(kcal/kg)	A.R.	(Remark 1)		
2. Total Moisture	(%)	A.R.	28		Max.
3. Ash Content	(%)	A.D.	13		Max.
4. Sulphur Content	(%)	A.D.	0.9		Max.
5. Volatile Matter	(%)	A.D.	28		Min.
6. Fixed Carbon	(%)	A.D.	60		Max.
7. Mercury Content	(mg/kg)		0.12		Max.
8. Grindability	(H.G.I.)		42		Min.
9. Ash Fusion Temperature			1,150		Min.
	(reducing, H=W)	(°C)			
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na₂O in Ash	(%)		Remark 2		

Remarks:

- 1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.**
- 2. Na₂O in Ash**
 - (1) If the actual Ash Content is greater than 7%,
Na₂O in Ash is 2% Max; if both actual (a) CaO+MgO > Fe₂O₃, and actual (b) CaO+MgO+Fe₂O₃ > 20% are met, then Na₂O in Ash can be raised to 5.0% Max.**
 - (2) If the actual Ash Content is equal to or less than 7%,
Na₂O in Ash is 3% Max; if CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 6.0% Max.**
- 3. A.R. means As Received Basis; A.D. means Air Dried Basis.**

Attachment G1**Quality Specifications for Taipower's Term Tender of Low-Ash
& Low-Sulfur Subbituminous Coal – Quality G1****November, 2021**

Item			Minimum / Maximum		
1. Gross Calorific Value			5,000		Min.
	(kcal/kg)	A.R.		(Remark 1)	
2. Total Moisture	(%)	A.R.	30		Max.
3. Ash Content	(%)	A.D.	8		Max.
4. Sulphur Content	(%)	A.D.	0.5		Max.
5. Volatile Matter	(%)	A.D.	28		Min.
6. Fixed Carbon	(%)	A.D.	60		Max.
7. Mercury Content	(mg/kg)		0.12		Max.
8. Grindability	(H.G.I.)		42		Min.
9. Ash Fusion Temperature			1,150		Min.
	(reducing, H=W)	(°C)			
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na₂O in Ash	(%)				Remark 2

Remarks:

- 1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.**
- 2. Na₂O in Ash is 3% Max; if actual CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 9.0% Max**
- 3. A.R. means As Received Basis; A.D. means Air Dried Basis.**

Attachment G2**Quality Specifications for Taipower's Term Tender of Low-Ash
Subbituminous Coal – Quality G2****November, 2021**

Item			Minimum / Maximum		
1. Gross Calorific Value			5,000		Min.
	(kcal/kg)	A.R.	(Remark 1)		
2. Total Moisture	(%)	A.R.	30		Max.
3. Ash Content	(%)	A.D.	8		Max.
4. Sulphur Content	(%)	A.D.	0.7		Max.
5. Volatile Matter	(%)	A.D.	28		Min.
6. Fixed Carbon	(%)	A.D.	60		Max.
7. Mercury Content	(mg/kg)		0.12		Max.
8. Grindability	(H.G.I.)		42		Min.
9. Ash Fusion Temperature			1,150		Min.
	(reducing, H=W)	(°C)			
10. Size (mm)			>50mm	5 %	Max.
			<2mm	35 %	Max.
11. Na₂O in Ash	(%)		Remark 2		

Remarks:

- 1. Gross Calorific Value greater than 6,900 kcal/kg will be treated as 6,900 kcal/kg.**
- 2. Na₂O in Ash is 3% Max; if actual CaO+MgO+Fe₂O₃ > 20% is met, then Na₂O in Ash can be raised to 9.0% Max**
- 3. A.R. means As Received Basis; A.D. means Air Dried Basis.**

Attachment E**Checklist of Updated Qualification Documents**

Item	Qualification and Supporting Documents	Attached or not (Please tick one)
1	Certificate (Attachment E-1)	<input type="checkbox"/> Attached
2	Application Form for Suppliers under Taipower's Current Qualified Supplier List of Term Coal Tenders (Attachment E-2)	<input type="checkbox"/> Attached
3	Photocopy of Mining Permit	<input type="checkbox"/> Attached <input type="checkbox"/> N. N.
4	Photocopy of valid contract signed by mining permit holder and applicant and a photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments. (for an applicant who is not the mining permit holder)	<input type="checkbox"/> Attached <input type="checkbox"/> N. A. <input type="checkbox"/> N. N.
5	Authorization (for Wholly-Owned Sales Company of Owner/Producer or JV) and a photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments if the Sales Company is wholly-owned by Producer	<input type="checkbox"/> Attached <input type="checkbox"/> N. A. <input type="checkbox"/> N. N.
6	Appointment and Authorization (for Authorized Company to Supply Coal from China)	<input type="checkbox"/> Attached <input type="checkbox"/> N. A. <input type="checkbox"/> N. N.
7.	Statement (for Exclusively Duly Authorized International Sales Company of the Proposed Mine) (Attachment E-2.1)	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.
8	Updated Information Sheet of the Proposed Mine for each mine (Attachment E-3)	<input type="checkbox"/> Attached
9	Geological cross-section map	<input type="checkbox"/> Attached <input type="checkbox"/> N. N.
10	Copies of Inspection company's Certificates of Weight and Analysis for each shipment of coal export for meeting the quantity and quality requirements specified in Section 2.(2).C	<input type="checkbox"/> Attached <input type="checkbox"/> N. N.
11	Information Sheet of Coal Quality for each mine (Attachment E-4)	<input type="checkbox"/> Attached
12	English translations for the documents of items: <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 9	<input type="checkbox"/> Attached <input type="checkbox"/> N. A. <input type="checkbox"/> N. N.

Remarks:(1)'N.A.' means 'not applicable'.

(2)'N.N.' means 'not needed', i.e., if the information for the item has been provided by the Applicant within Last 5 Years, which is still valid and not changed, it is not necessary to provide again. For such a circumstance, please tick 'N.N.'.

Attachment E-1

Certificate

The undersigned is submitting an Application Form and related documents to Taiwan Power Company (“Taipower”) for Taipower’s consideration in connection with the possible pre-qualification of the undersigned as a supplier to Taipower for term coal contracts. The undersigned hereby certifies that:

1. It has the right to sell and export the coal produced from the proposed mine;
2. The information submitted in and with its Application Form and related documents is true and correct;
3. It has not forged, or altered without authorization, any documents contained in or related to its qualification documents and related documents;
4. It has not violated and will not violate the R.O.C. Government Procurement Act (hereinafter refer to as “Act”), including:
 - i. It or its responsible personnel has no interests involve with the head of Taipower, his or her spouse, relatives by blood or by marriage within three degrees, or other relatives who live with and share the property with him; (Paragraph 2, Article 15 of the Act)
 - ii. It is neither a R.O.C. political party nor affiliated to a R.O.C. political party; (Paragraph 1, Article 38 of the Act)

Company Name: _____

By: _____

(Authorized Signature)

Name: _____

Title: _____

Date: _____

Attachment E-2

Application Form
for Suppliers under Taipower’s Current Qualified Supplier List
of Term Coal Tenders

1. Fundamental data of Applicant:

- (1) Company name : _____
- (2) Company address : _____
- (3) Contact person **(Please fill out two people’s data):**

	<u>1</u>	<u>2</u>
Name / Title of contact person		
Telephone number		
Mobile Phone number		
Fax number		
Email address		

Table 1

2. Name and Information of the Proposed Mine

(1) Name of mine:

No.	Name of mine	Quality Category (please tick all that apply)
1		<input type="checkbox"/> Quality A1 <input type="checkbox"/> Quality A2 <input type="checkbox"/> Quality A3 <input type="checkbox"/> Quality A4 <input type="checkbox"/> Quality B <input type="checkbox"/> Quality C1 <input type="checkbox"/> Quality C2 <input type="checkbox"/> Quality C3 <input type="checkbox"/> Quality C4 <input type="checkbox"/> Quality D1 <input type="checkbox"/> Quality D2 <input type="checkbox"/> Quality D3 <input type="checkbox"/> Quality D4 <input type="checkbox"/> Quality G1 <input type="checkbox"/> Quality G2
2		<input type="checkbox"/> Quality A1 <input type="checkbox"/> Quality A2 <input type="checkbox"/> Quality A3 <input type="checkbox"/> Quality A4 <input type="checkbox"/> Quality B <input type="checkbox"/> Quality C1 <input type="checkbox"/> Quality C2 <input type="checkbox"/> Quality C3 <input type="checkbox"/> Quality C4 <input type="checkbox"/> Quality D1 <input type="checkbox"/> Quality D2 <input type="checkbox"/> Quality D3 <input type="checkbox"/> Quality D4 <input type="checkbox"/> Quality G1 <input type="checkbox"/> Quality G2
3		<input type="checkbox"/> Quality A1 <input type="checkbox"/> Quality A2 <input type="checkbox"/> Quality A3 <input type="checkbox"/> Quality A4 <input type="checkbox"/> Quality B <input type="checkbox"/> Quality C1 <input type="checkbox"/> Quality C2 <input type="checkbox"/> Quality C3 <input type="checkbox"/> Quality C4 <input type="checkbox"/> Quality D1 <input type="checkbox"/> Quality D2 <input type="checkbox"/> Quality D3 <input type="checkbox"/> Quality D4 <input type="checkbox"/> Quality G1 <input type="checkbox"/> Quality G2
4		<input type="checkbox"/> Quality A1 <input type="checkbox"/> Quality A2 <input type="checkbox"/> Quality A3 <input type="checkbox"/> Quality A4 <input type="checkbox"/> Quality B <input type="checkbox"/> Quality C1 <input type="checkbox"/> Quality C2 <input type="checkbox"/> Quality C3 <input type="checkbox"/> Quality C4 <input type="checkbox"/> Quality D1 <input type="checkbox"/> Quality D2 <input type="checkbox"/> Quality D3 <input type="checkbox"/> Quality D4 <input type="checkbox"/> Quality G1 <input type="checkbox"/> Quality G2

Table 2

(2) The Applicant is requested to fill out and submit a separate ‘Updated Information Sheet of the Proposed Mine’ for each proposed mine (see **Attachment E-3**).

Remarks:

- i. A1(A1-1), A2(A2-1), A3(A3-1), A4 (A4-1), B(B-1), C1, C2, C3, C4, D1, D2(D2-1), D3, D4, G1 and G2 means the coal quality of the proposed mine meeting the quality specifications as specified in the Attachment A1, A2, A3, A4, B, C1, C2, C3, C4, D1, D2, D3, D4, G1 and G2 of the Instructions,

- respectively.
- ii. The Applicant is requested to specify the quality specifications in the above table for which the Applicant would like the proposed mine to be qualified.
- iii. If the mine and Applicant is determined by Taipower to be qualified, the Applicant and mine will be put into the Qualified Suppliers Lists for **Quality A1(A1-1), A2(A2-1), A3(A3-1), A4(A4-1), B(B-1), C1, C2, C3, C4, D1, D2(D2-1), D3, D4, G1 and/or G2 depending on the coal quality of the proposed mine are met.**
- iv. Please expand the above table if necessary to cover each mine proposed.

3. Relationship between Applicant and proposed mine in Item 2 above: (Please tick one for each mine)

Mine 1	Mine 2	Mine 3	Mine 4
<input type="checkbox"/> Owner	<input type="checkbox"/> Owner	<input type="checkbox"/> Owner	<input type="checkbox"/> Owner
<input type="checkbox"/> Producer	<input type="checkbox"/> Producer	<input type="checkbox"/> Producer	<input type="checkbox"/> Producer
<input type="checkbox"/> Wholly-owned Sales Company of Owner/ Producer or JV	<input type="checkbox"/> Wholly-owned Sales Company of Owner/ Producer or JV	<input type="checkbox"/> Wholly-owned Sales Company of Owner/ Producer or JV	<input type="checkbox"/> Wholly-owned Sales Company of Owner/ Producer or JV
<input type="checkbox"/> Exclusively duly Authorized International Sales Company	<input type="checkbox"/> Exclusively duly Authorized International Sales Company	<input type="checkbox"/> Exclusively duly Authorized International Sales Company	<input type="checkbox"/> Exclusively duly Authorized International Sales Company
<input type="checkbox"/> Company to Supply Coal from China	<input type="checkbox"/> Company to Supply Coal from China	<input type="checkbox"/> Company to Supply Coal from China	<input type="checkbox"/> Company to Supply Coal from China
<input type="checkbox"/> Authorized Company to Supply Coal from China	<input type="checkbox"/> Authorized Company to Supply Coal from China	<input type="checkbox"/> Authorized Company to Supply Coal from China	<input type="checkbox"/> Authorized Company to Supply Coal from China

Table 3

(Please expand the above table if necessary to cover each mine proposed)

Note:

The definition of Owner, Producer, Wholly-Owned Sales Company of Owner/ Producer or JV, Exclusively duly Authorized International Sales Company and the Company or Authorized Company to Supply Coal from China are specified in the section 2.(1) of the Instructions.

An Applicant, as the case maybe, must provide the following supporting documents with this Application Form: (Please tick)

	Mining Permit	Valid Contract	Export Certification	Approval Document for Export Coal to Taiwan	Authorization	Statement
Owner	<input type="checkbox"/> Attached <input type="checkbox"/> N. N.	--	<input type="checkbox"/> Attached <input type="checkbox"/> N. N. <input type="checkbox"/> N. A.	--	--	--
Producer	<input type="checkbox"/> Attached <input type="checkbox"/> N. N.	<input type="checkbox"/> Attached <input type="checkbox"/> N. N.	<input type="checkbox"/> Attached <input type="checkbox"/> N. N. <input type="checkbox"/> N. A.	--	--	--
Wholly-Owned Sales Company	<input type="checkbox"/> Attached <input type="checkbox"/> N.N.	--	<input type="checkbox"/> Attached <input type="checkbox"/> N. N. <input type="checkbox"/> N. A.	--	<input type="checkbox"/> Attached <input type="checkbox"/> N. N.	--
Exclusively duly Authorized International Sales Company	<input type="checkbox"/> Attached <input type="checkbox"/> N.N.	--	<input type="checkbox"/> Attached <input type="checkbox"/> N. N. <input type="checkbox"/> N. A.	--	--	<input type="checkbox"/> Attached
Company or Authorized Company to supply coal from China	<input type="checkbox"/> Attached <input type="checkbox"/> N.N.	--	<input type="checkbox"/> Attached <input type="checkbox"/> N. N.	<input type="checkbox"/> Attached <input type="checkbox"/> N. N.	<input type="checkbox"/> Attached <input type="checkbox"/> N. N. <input type="checkbox"/> N.A.	--

Table 4

Remarks: (1)'N.A.' means 'not applicable'.

(2)'N.N.' means 'not needed', i.e., if the information for the item has been provided by the Applicant within Last 5 Years, which is still valid and not changed, it is not necessary to be provided once again. For such a circumstance, please tick 'N.N.'

(3)'Export Certification' means a photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments.

(1) Owner :

A photocopy of mining permit (such as coal mining license, coal mining lease or equivalent documents) granted to Owner for the proposed mine by competent governmental authority.

(2) Producer:

- A. A photocopy of mining permit (such as coal mining license, coal mining lease or equivalent documents) granted to Owner for the proposed mine by competent governmental authority;
 - B. A photocopy of valid contract signed by mining permit holder and Applicant if Applicant is not mining permit holder; and
 - C. A photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments.
- (3) Wholly-Owned Sales Company of Owner/Producer or JV:
- A. A photocopy of mining permit (such as coal mining lease, coal mining license or equivalent documents) granted to Owner for the proposed mine by competent governmental authority;
 - B. An authorization issued by Owner/Producer or JV. The authorization shall state that the Applicant is wholly owned by Owner/Producer or JV for the proposed mine and has the right to sell the coal produced from the proposed mine. **The signature in the authorization shall be certified as authentic by a notary public;** and
 - C. A photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments if the Sales Company is wholly owned by Producer.
- (4) Exclusively Duly Authorized International Sales Company
- A. A photocopy of mining permit (such as coal mining lease, coal mining license or equivalent documents) granted to Owner for the proposed mine by competent governmental authority;
 - B. A statement in the form of the Attachment to the Application Form (see **Attachment E-2.1**) issued by Owner/Producer or JV Participants. The statement shall state that the Applicant is an exclusively duly authorized international sales company for the proposed mine and has the exclusive right to sell the coal produced from the proposed mine. **The signature in the statement shall be certified as authentic by a notary public;** and
 - C. A photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments.
- (5) Company to Supply Coal from China:
- A. A photocopy of mining permit granted to Owner for the proposed mine by competent governmental authority; and
 - B. A photocopy of the competent China authority's approval document for the company in China area to export coal to Taiwan. The foregoing copy shall be marked with the wording of "Same as Original" by the company

with the company seal affixed on it.

(6) Authorized Company to Supply Coal from China:

- A. A photocopy of mining permit granted to Owner for the proposed mine by competent governmental authority; and
- B. A duplicate original of appointment and authorization to sell the coal produced from the proposed mine issued by a company in China which has received the competent China authority's approval to export coal to Taiwan. The appointment and authorization shall state that the Applicant is appointed and authorized to participate in Taipower's pre-qualification evaluation, to offer the bid, to enter into a coal supply contract and to perform the contract if it is successful under the relevant Taipower's invitation to bid, for supplying the coal from the proposed mine. The appointment and authorization shall state that the validity period will continue and remain in effect until the expiration of the contract awarded by Taipower pursuant to the relevant invitation for bid. The appointment and authorization shall be affixed with the company seal and the signature in the appointment and authorization shall be certified as authentic by a notary public or similar official in China; and
- C. A photocopy of the competent China authority's approval document for the company in China to export coal to Taiwan. The foregoing copy shall be marked with the wording of "Same as Original" by the company with the company seal affixed on it.

Attachment E-2.1

STATEMENT

The undersigned Owner/Producer/Joint Venture Participants of the proposed mine(s), a firm organized and existing under the laws of _____, warrants and represents the undersigned applicant is an exclusively duly authorized international sales company of the proposed mine and has the exclusive right to sell the coal produced from the proposed mine as specified in the Section 2(1)(c)(iii) of the Instructions.

This warranty and representation shall continue and remain in effect until the expiration of Qualified Suppliers Lists pursuant to the above-specified Instructions.

The undersigned Owner/Producer/Joint Venture Participants and Applicant shall indemnify and hold harmless Taipower and Taipower's officers, employees, and consultants from and against any and all claims arising out of, relating to, or in any way connected with this or any other agreement between Owner/Producer/Joint Venture Participants and Applicant.

Owner/
 Producer/
 Joint Venture Participant:

Applicant:

 (Company Name)
 BY: _____
 (Authorized Signature)
 Name: _____
 Title: _____
 Date: _____

 (Company Name)
 BY: _____
 (Authorized Signature)
 Name: _____
 Title: _____
 Date: _____

Note:

The Statement shall be prepared by **Each Joint Venture Participant** if form of organization of Owner or Producer is a 'Joint Venture'

Attachment E-3

Updated Information Sheet of the Proposed Mine

1. Name of mine: _____
2. Mine address : _____
3. Ownership of mine:
 - (1) Full name of mine Owner or Producer: _____
 - (2) Full name of shareholders and their percentage of stakes for the proposed mine if form of organization of Owner or Producer is a ‘**Company**’:

No.	Full name of shareholders	Stake (%)
1		
2		
3		
4		
5		

Table 5

Full name of participants and their interests for the proposed mine if form of organization of Owner or Producer is a ‘**Joint Venture**’:

No.	Full name of participants	Interest (%)
1		
2		
3		
4		
5		

Table 6

4. Updated Mine geology:
 - (1) Typical seam profile of coal deposit:

Coal Seam and Parting	Thickness			Coal Quality						
	Mean	Max.	Min.	C.V.	T.M.	ASH	V.M.	T.S.	F.C.	AFT
	(m)	(m)	(m)	kcal/kg	%	%	%	%	%	°C
				A.R.	A.R.	A.D.	A.D.	A.D.	A.D.	(H=W)

Table 7

Please provide the **geological cross-section map**. However, if the said map has been provided by the Applicant within Last 5 Years, which is still valid and not changed, it is not necessary to provide again.

5. Remaining coal reserves (end of **2023**):

(1) Remaining probable reserves tonnage : _____ million metric tons

(2) Remaining proved reserves tonnage : _____ million metric tons

(3) Remaining inferred resources tonnage : _____ million metric tons

(4) Recovery factor : _____ %

(5) Remaining recoverable reserves tonnage : _____ million metric tons

Remark: (5) = **【 (1) + (2) 】** x (4)

(6) Remaining mine life : _____ years

Remark: (6) = (5) ÷ (7)

(7) Annual production record of **saleable coal production** of the proposed mine for year **2023**: _____ million metric tons

(8) Please provide the supporting documents for above figures such as related pages of the report of mining feasibility study or geological survey report which was prepared in accordance with the Code for Reporting Mineral Resources and Ore Reserves (**JORC Code**) or certificated by a licensed geologist.

6. Typical coal quality:

Please fill out the Information Sheet of Coal Quality as attached. (see **Attachment E-4**)

7. The quantity of exported coal:

Please **choose and fill out ONE** of the following cases from Case A to Case C that **the Applicant provides copies of Certificates of Weight and Analysis under section 2.(2)C:**

Case	Starting Date of Certificates of Weight and Analysis provided (YYYY/MM/DD)	End Date of Certificates of Weight and Analysis provided (YYYY/MM/DD)	Tonnage (million metric tons)
<input type="checkbox"/> A			
<input type="checkbox"/> B			
<input type="checkbox"/> C			
<input type="checkbox"/> N.N.			

Table 8

Note: Please provide copies of certificates of weight and analysis for each shipment issued by the inspection company to support the quantity as shown above. However, if Applicant has provided certificates that have been confirmed and accepted by Taipower within Last 5 Years, it is not necessary to provide again and please tick N.N.(not needed).

	Date (YYYY/MM/DD)	Quantity (MT)	GCV A.R. (kcal/kg)	Total Moisture A.R. %	Ash A.D %	Sulphur A.D %
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Total quantity: _____MT.

8. Quantity of coal production and export for last 3 years and coal estimated production and export for next 5 years:

Unit: million metric tons

Year (calendar year)	for R.O.M. coal production	for saleable coal production	Export
2021			
2022			
2023			

Year (calendar year)	for R.O.M. coal production	for saleable coal production	Export
2024			
2025			
2026			
2027			
2028			

Table 9

Note: The quantity specified in the 2023 saleable coal production should be the same as specified in Attachment E-3, 5, (7).

9. Attach updated brochure of coal mine, if any.

Attachment E-4

Information Sheet of Coal Quality (P.1/2)

Gross Calorific Value(kcal/kg)	Typical
As Received Basis	
Air Dried Basis	
Total Moisture %	Typical
As Received Basis	
Proximate Analysis (A. D. Basis)	Typical
Inherent moisture %	
Volatile Matter %	
Fixed Carbon %	
Ash %	
Sulphur (A. D. Basis)	Typical
Organic %	
Pyritic %	
Sulphate %	
Total %	
Ash Fusion Temperature (reducing)	Typical
Initial Deformation °C	
Softening °C	
Hemispherical °C	
Fluid °C	
Hardgrove Index (HGI)	Typical
Nominal Size (%)	Typical
> 50 mm	
< 2 mm	

Information Sheet of Coal Quality (P.2/2)

Ultimate Analysis (Dry Ash Free)	Typical
Carbon %	
Hydrogen %	
Nitrogen %	
Oxygen %	
Sulphur %	
Analysis of Ash Constituents %	
SiO ₂	
Al ₂ O ₃	
Fe ₂ O ₃	
CaO	
MgO	
TiO ₂	
Na ₂ O	
K ₂ O	
Mn ₃ O ₄	
P ₂ O ₅	
SO ₃	
BaO	
Trace Analysis (Dry Basis) ppm	
Mercury(Hg)	
Boron(B)	
Fluorine(F)	
Chlorine(Cl)	
Heavy Metals (Dry Basis) ppm	
Stibium(Sb)	
Arsenic(As)	
Beryllium(Be)	
Chromium(Cr)	
Cadmium(Cd)	
Cobaltum(Co)	
Lead(Pb)	
Manganum(Mn)	
Nickel(Ni)	
Selenium(Se)	

Attachment F**Checklist of Qualification Documents**

Item	Qualification and Supporting Documents	Attached or not (Please tick one)
1	Certificate (Attachment F-1)	<input type="checkbox"/> Attached.
2	Application Form for Qualifying Taipower's Supplier for Term Coal Tenders (Attachment F-2)	<input type="checkbox"/> Attached.
3	Photocopy of Mining Permit	<input type="checkbox"/> Attached
4	Photocopy of valid contract signed by mining permit holder and applicant and a photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments. (for an applicant who is not the mining permit holder)	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.
5	Authorization (for Wholly-Owned Sales Company of Owner/Producer or JV) and a photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments if the Sales Company is wholly-owned by Producer	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.
6	Appointment and Authorization (for Authorized Company to Supply Coal from China)	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.
7	Photocopy of China authority's approval document for the company in China to export coal to Taiwan(for Company to Supply Coal from China and Authorized Company to Supply Coal from China)	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.
8.	Statement (for Exclusively duly Authorized International Sales Company of the Proposed Mine) (Attachment F-2.1)	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.
9	Information Sheet of the Proposed Mine for Each Mine (Attachment F-3)	<input type="checkbox"/> Attached
10	Mine Location Map	<input type="checkbox"/> Attached
11	Coal Concession Map	<input type="checkbox"/> Attached
12	Geological Cross-section Map	<input type="checkbox"/> Attached
13	Related Pages of Report of Mining Feasibility Study or Geological Report	<input type="checkbox"/> Attached
14	Annual saleable Production Record for Year 2023	<input type="checkbox"/> Attached
15	Flowchart of Washing Plant	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.
16	Combustion Trial Report	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.
17	Copies of Inspection Company's Certificates of Weight and Analysis for Each Shipment of Coal Export for meeting the quantity and quality requirements specified in Section 2.(2).C	<input type="checkbox"/> Attached
18	Information Sheet of Coal Quality for Each Mine (Attachment F-4)	<input type="checkbox"/> Attached
19	Information Sheet of Loading Port Facilities for Each Mine (Attachment F-5)	<input type="checkbox"/> Attached
20	English Translations for The Documents of Items: <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.

Remark: 'N.A.' means 'not applicable'

Attachment F-1

Certificate

The undersigned is submitting an Application Form and related documents to Taiwan Power Company (“Taipower”) for Taipower’s consideration in connection with the possible pre-qualification of the undersigned as a supplier to Taipower for term coal contracts. The undersigned hereby certifies that:

1. It has the right to sell and export the coal produced from the proposed mine;
2. The information submitted in and with its Application Form and related documents is true and correct;
3. It has not forged, or altered without authorization, any documents contained in or related to its qualification documents and related documents;
4. It has not violated and will not violate the R.O.C. Government Procurement Act (hereinafter refer to as “Act”), including:
 - i. It or its responsible personnel has no interests involve with the head of Taipower, his or her spouse, relatives by blood or by marriage within three degrees, or other relatives who live with and share the property with him; (Paragraph 2, Article 15 of the Act)
 - ii. It is neither a R.O.C. political party nor affiliated with a R.O.C. political party; (Paragraph 1, Article 38 of the Act)

Company Name: _____

By: _____

(Authorized Signature)

Name: _____

Title: _____

Date: _____

Attachment F-2

Application Form

for Qualifying Taipower’s Supplier for Term Coal Tenders

1. Fundamental data of Applicant:

(1) Company name : _____

(2) Company address : _____

(3) Contact person **(Please fill out two people’s data):**

	<u>1</u>	<u>2</u>
Name / Title of contact person		
Telephone number		
Mobile Phone number		
Fax number		
Email address		

Table 10

2. Name and information of the proposed mine

(1) Name of and quality category for the proposed mine

No.	Name of mine	Quality Category (please tick all that apply)
1		<input type="checkbox"/> Quality A1 <input type="checkbox"/> Quality A2 <input type="checkbox"/> Quality A3 <input type="checkbox"/> Quality A4 <input type="checkbox"/> Quality B <input type="checkbox"/> Quality C1 <input type="checkbox"/> Quality C2 <input type="checkbox"/> Quality C3 <input type="checkbox"/> Quality C4 <input type="checkbox"/> Quality D1 <input type="checkbox"/> Quality D2 <input type="checkbox"/> Quality D3 <input type="checkbox"/> Quality D4 <input type="checkbox"/> Quality G1 <input type="checkbox"/> Quality G2
2		<input type="checkbox"/> Quality A1 <input type="checkbox"/> Quality A2 <input type="checkbox"/> Quality A3 <input type="checkbox"/> Quality A4 <input type="checkbox"/> Quality B <input type="checkbox"/> Quality C1 <input type="checkbox"/> Quality C2 <input type="checkbox"/> Quality C3 <input type="checkbox"/> Quality C4 <input type="checkbox"/> Quality D1 <input type="checkbox"/> Quality D2 <input type="checkbox"/> Quality D3 <input type="checkbox"/> Quality D4 <input type="checkbox"/> Quality G1 <input type="checkbox"/> Quality G2
3		<input type="checkbox"/> Quality A1 <input type="checkbox"/> Quality A2 <input type="checkbox"/> Quality A3 <input type="checkbox"/> Quality A4 <input type="checkbox"/> Quality B <input type="checkbox"/> Quality C1 <input type="checkbox"/> Quality C2 <input type="checkbox"/> Quality C3 <input type="checkbox"/> Quality C4 <input type="checkbox"/> Quality D1 <input type="checkbox"/> Quality D2 <input type="checkbox"/> Quality D3 <input type="checkbox"/> Quality D4 <input type="checkbox"/> Quality G1 <input type="checkbox"/> Quality G2
4		<input type="checkbox"/> Quality A1 <input type="checkbox"/> Quality A2 <input type="checkbox"/> Quality A3 <input type="checkbox"/> Quality A4 <input type="checkbox"/> Quality B <input type="checkbox"/> Quality C1 <input type="checkbox"/> Quality C2 <input type="checkbox"/> Quality C3 <input type="checkbox"/> Quality C4 <input type="checkbox"/> Quality D1 <input type="checkbox"/> Quality D2 <input type="checkbox"/> Quality D3 <input type="checkbox"/> Quality D4 <input type="checkbox"/> Quality G1 <input type="checkbox"/> Quality G2

Table 11

(2) The Applicant is requested to fill out and submit a separate ‘Information Sheet of the Proposed Mine’ for each proposed mine **(see Attachment F-3)**.

Remarks:

(1) Quality A1(A1-1), A2(A2-1), A3(A3-1), A4 (A4-1), B(B-1), C1, C2, C3, C4, D1, D2(D2-1), D3, D4, G1 and G2 means the coal quality of the proposed mine

meeting the quality specifications as specified in the Attachment A1, A2, A3, A4, B, C1, C2, C3, C4, D1, D2, D3, D4, G1 and G2 of the Instructions, respectively.

(2) The Applicant is requested to specify the quality specifications in the above table for which the Applicant would like the proposed mine to be qualified.

(3) If the mine and Applicant is determined by Taipower to be qualified, the Applicant and mine will be put into the Qualified Suppliers Lists for Quality A1(A1-1), A2(A2-1), A3(A3-1), A4 (A4-1), B(B-1), C1, C2, C3, C4, D1, D2(D2-1), D3, D4, G1 and/or G2 depending on the coal quality of the proposed mine are met.

(4) Please expand the above table if necessary to cover each mine proposed.

3. Relationship between Applicant and proposed mine in Item 2 above:(Please tick one for each mine)

Mine 1	Mine 2	Mine 3	Mine 4
<input type="checkbox"/> Owner	<input type="checkbox"/> Owner	<input type="checkbox"/> Owner	<input type="checkbox"/> Owner
<input type="checkbox"/> Producer	<input type="checkbox"/> Producer	<input type="checkbox"/> Producer	<input type="checkbox"/> Producer
<input type="checkbox"/> Wholly-owned Sales Company of Owner/ Producer or JV	<input type="checkbox"/> Wholly-owned Sales Company of Owner/ Producer or JV	<input type="checkbox"/> Wholly-owned Sales Company of Owner/ Producer or JV	<input type="checkbox"/> Wholly-owned Sales Company of Owner/ Producer or JV
<input type="checkbox"/> Exclusively duly Authorized International Sales Company	<input type="checkbox"/> Exclusively duly Authorized International Sales Company	<input type="checkbox"/> Exclusively duly Authorized International Sales Company	<input type="checkbox"/> Exclusively duly Authorized International Sales Company
<input type="checkbox"/> Company to Supply Coal from China	<input type="checkbox"/> Company to Supply Coal from China	<input type="checkbox"/> Company to Supply Coal from China	<input type="checkbox"/> Company to Supply Coal from China
<input type="checkbox"/> Authorized Company to Supply Coal from China	<input type="checkbox"/> Authorized Company to Supply Coal from China	<input type="checkbox"/> Authorized Company to Supply Coal from China	<input type="checkbox"/> Authorized Company to Supply Coal from China

Table 12

(Please expand the above table if necessary to cover each mine proposed)

Note:

The definition of Owner, Producer, Wholly-Owned Sales Company of Owner/Producer or JV, Exclusively duly Authorized International Sales Company and the Company or Authorized Company to Supply Coal from China are specified in the section 2.(1) of the Instructions.

4. An Applicant, as the case may be, must provide the following supporting documents with this Application Form: (Please tick)

	Mining Permit	Valid Contract	Export Certification	Approval Document for Export Coal to Taiwan	Authorization	Statement
Owner	<input type="checkbox"/> Attached	--	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.	--	--	--
Producer	<input type="checkbox"/> Attached	<input type="checkbox"/> Attached	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.	--	--	--
Wholly-Owned Sales Company	<input type="checkbox"/> Attached	--	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.	--	<input type="checkbox"/> Attached	--
Exclusively duly Authorized International Sales Company	<input type="checkbox"/> Attached	--	<input type="checkbox"/> Attached <input type="checkbox"/> N. A.	--	--	<input type="checkbox"/> Attached
Company or Authorized Company to supply coal from China	<input type="checkbox"/> Attached	--	<input type="checkbox"/> Attached	<input type="checkbox"/> Attached	<input type="checkbox"/> Attached <input type="checkbox"/> N.A.	--

Table 13

Remarks: (1) ‘N.A.’ means ‘not applicable’.

(2) ‘Export Certification’ means a photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments.

(1) Owner :

A photocopy of mining permit (such as coal mining license, coal mining lease or equivalent documents) granted to Owner for the proposed mine by competent governmental authority.

(2) Producer:

- A. A photocopy of mining permit (such as coal mining license, coal mining lease or equivalent documents) granted to Owner for the proposed mine by competent governmental authority;
 - B. A photocopy of valid contract signed by mining permit holder and Applicant if Applicant is not mining permit holder; and
 - C. A photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments.
- (3) Wholly-Owned Sales Company of Owner/Producer or JV:
- A. A photocopy of mining permit (such as coal mining lease, coal mining license or equivalent documents) granted to Owner for the proposed mine by competent governmental authority;
 - B. An authorization issued by Owner/Producer or JV. The authorization shall state that the Applicant is wholly owned by Owner/Producer or JV for the proposed mine and has the right to sell the coal produced from the proposed mine. The signature in the authorization shall be certified as authentic by a notary public; and
 - C. A photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments if the Sales Company is wholly owned by Producer.
- (4) Exclusively duly Authorized International Sales Company
- A. A photocopy of mining permit (such as coal mining lease, coal mining license or equivalent documents) granted to Owner for the proposed mine by competent governmental authority;
 - B. A statement in the form of the Attachment to the Application Form (see **Attachment F-2.1**) issued by Owner/Producer or JV Participants. The statement shall state that the Applicant is an exclusively duly authorized international sales company for the proposed mine and has the exclusive right to sell the coal produced from the proposed mine. The signature in the statement shall be certified as authentic by a notary public; and
 - C. A photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments.
- (5) A photocopy of document issued by the competent governmental authority certifying export permit will be granted for export shipments if the Sales Company is wholly owned by Producer.
- (6) Company to Supply Coal from China:
- A. A photocopy of mining permit granted to Owner for the proposed mine by

- competent governmental authority; and
- B. A photocopy of the competent China authority's approval document for the company in China to export coal to Taiwan. The foregoing copy shall be marked with the wording of "Same as Original" by the company with the company seal affixed on it.
- (7) Authorized Company to Supply Coal from China:
- A. A photocopy of mining permit granted to Owner for the proposed mine by competent governmental authority; and
 - B. A duplicate original of appointment and authorization to sell the coal produced from the proposed mine issued by a company in China that has received the competent China authority's approval to export coal to Taiwan. The appointment and authorization shall state that the Applicant is appointed and authorized to participate in Taipower's pre-qualification evaluation, to offer the bid, to enter into a coal supply contract and to perform the contract if it is successful under the relevant Taipower's invitation for bid, for supplying the coal from the proposed mine. The appointment and authorization shall state that the validity period will continue and remain in effect until the expiration of the contract awarded by Taipower pursuant to the relevant invitation for bid. The appointment and authorization shall be affixed with the company seal and the signature in the appointment and authorization shall be certified as authentic by a notary public or similar official in China; and
 - C. A photocopy of the competent China authority's approval document for the company in China to export coal to Taiwan. The foregoing copy shall be marked with the wording of "Same as Original" by the company with the company seal affixed on it.

Attachment F-2.1

STATEMENT

The undersigned Owner/Producer/Joint Venture Participants of the proposed mine(s), a firm organized and existing under the laws of _____, warrants and represents the undersigned applicant is an exclusively duly authorized, international sales company of the proposed mine and has the exclusive right to sell the coal produced from the proposed mine as specified in the Section 2(1)(c)(iii) of the Instructions.

This warranty and representation shall continue and remain in effect until the expiration of Qualified Suppliers Lists pursuant to the above-specified Instructions.

The undersigned Owner/Producer/Joint Venture Participants and Applicant shall indemnify and hold harmless Taipower and Taipower's officers, employees, and consultants from and against any and all claims arising out of, relating to, or in any way connected with this or any other agreement between Owner/Producer/Joint Venture Participants and Applicant.

Owner/
 Producer/
 Joint Venture Participant:

Applicant:

 (Company Name)
 BY: _____
 (Authorized Signature)
 Name: _____
 Title: _____
 Date: _____

 (Company Name)
 BY: _____
 (Authorized Signature)
 Name: _____
 Title: _____
 Date: _____

Note:

The Statement shall be prepared by **Each Joint Venture Participant** if form of organization of Owner or Producer is a 'Joint Venture'

Attachment F-3

Information Sheet of the Proposed Mine

1. Name of mine: _____

2. Location of mine:

(1) Mine address:

Address : _____

City : _____

State : _____

Country : _____

(2) Please provide mine location map.

3. Ownership of mine:

(1) Full name of mine Owner or Producer: _____

(2) Full name of shareholders and their percentage of stakes for the proposed mine if form of organization of Owner or Producer is a ‘company’:

No.	Full name of shareholders	Stake (%)
1		
2		
3		
4		
5		

Table 14

Full name of participants and their interests for the proposed mine if form of organization of Owner or Producer is a ‘Joint Venture’:

No.	Full name of participants	Interest (%)
1		
2		
3		
4		
5		

Table 15

4. Mining permit:

Mining permit shall be issued by competent governmental authority.

(1) Category of mining permit:(Please tick)

- Coal mining lease
- Coal mining license
- Coal exploitation right
- Coal mining certificate

(2) Serial number of mining permit and expiration date:

No.	Serial Number	Expiration Date (YY/MM/DD)
1		
2		
3		
4		

Table 16

(3) Please provide coal concession map for each mining permit.

5. Commercial date of mine:

Month and year in which the mine started commercial production:

____ / ____ (YYYY/MM)

6. Mine geology:

(1) Typical seam profile of coal deposit:

Coal Seam and Parting	Thickness			Coal Quality						
	Mean (m)	Max. (m)	Min. (m)	C.V. kcal/kg A.R.	T.M. % A.R.	ASH % A.D.	V.M. % A.D.	T.S. % A.D.	F.C. % A.D.	AFT °C (H=W)

Table 17

(2) Please provide the geological cross-section map.

7. Remaining coal reserves (end of 2023):

- (1) Remaining probable reserves tonnage : _____million metric tons
- (2) Remaining proved reserves tonnage : _____million metric tons
- (3) Remaining inferred resources tonnage: _____million metric tons
- (4) Recovery factor : _____ %
- (5) Remaining recoverable reserves tonnage : _____million metric tons

Remark: (5) = **【 (1) + (2) 】** x (4)

- (6) Remaining mine life : _____years

Remark: (6) = (5) ÷ (7)

- (7) Annual production record of **saleable coal production** of the proposed mine for year **2023**: _____million metric tons

- (8) Please provide the supporting documents for above figures such as related pages of the report of mining feasibility study or geological survey report which was prepared in accordance with the Code for Reporting Mineral Resources and Ore Reserves (**JORC Code**) or certificated by a licensed geologist.

8. Type of mining method and equipment:

- (1) Type of mining method:(Please tick)

Open Cut:

Dragline

Truck & Shovel

Others (please specify) _____

Underground:

Long Wall

Room & Pillar

Others (please specify) _____

- Multi seam operation
- Raw coal blended prior to washing
- Each coal seam washed individually

(8) Coal sampling system in coal preparation facilities: (Please tick)

- No
- Yes
 - Operation: On-Line Off-Line
 - Quality items monitored:
 - Heating Value
 - Total Moisture
 - Ash Content
 - Sulphur Content
 - Volatile Matter
 - Others _____

(9) Stockpile capacity at mine site:

_____ metric tons for R.O. M.
_____ metric tons for saleable coal.

10. Please describe the coal quality control system in coal stockyard and load out:

11. Typical coal quality:

- (1) Please fill out the Information Sheet of Coal Quality as attached. (see **Attachment F-4**)
- (2) Please provide a copy of combustion trial report including pulverizing mill performance, combustion performance, ash deposition performance, electrostatic precipitator performance and SO_x, NO_x emissions.

12. The quantity of exported coal:

Please **choose and fill out ONE** of the following cases from Case A to Case C that **the Applicant provides copies of certificates of weight and analysis under section 2.(2)C:**

Case	Starting Date of Certificates of Weight and Analysis provided (YYYY/MM/DD)	End Date of Certificates of Weight and Analysis provided (YYYY/MM/DD)	Tonnage (million metric tons)
<input type="checkbox"/> A			
<input type="checkbox"/> B			
<input type="checkbox"/> C			

Table 19

Note: Please provide copies of certificates of weight and analysis for each shipment issued by the inspection company to support the quantity as shown above.

	Date (YYYY/MM/DD)	Quantity (MT)	GCV A.R. (kcal/kg)	Total Moisture A.R. %	Ash A.D %	Sulphur A.D %
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Total quantity: _____ MT.

13. Quantity of coal production and export for last 3 years and coal estimated production and export for next 5 years: Unit: million metric tons

Year (calendar year)	for R.O.M. coal production	for saleable coal production	Export
2021			
2022			
2023			

Year (calendar year)	for R.O.M. coal production	for saleable coal production	Export
2024			
2025			
2026			
2027			
2028			

Table 20

Note: The quantity specified in the 2022 saleable coal production should be the same as specified in Attachment F-3, 7, (7).

14. Customer’s information:

Customer’s names, contract quantity and duration currently purchasing coal from the proposed mine by term contracts:

Customer’s Name	Country	Quantity (million metric tons/year)	Contract Duration (starting / expiration year)

Table 21

15. Inland transportation arrangement from mine site to loading port:

(1) Transportation method: (please tick)

- By truck : _____ Kilometers
- By convey : _____ Kilometers
- By train : _____ Kilometers
- By barge : _____ Kilometers
- Others (please specify) _____

(2) The capacity of inland transportation: _____ metric tons/year

16. Loading port facilities:

Please fill out the attached Information Sheet of Loading Port Facilities (see **Attachment F-5**). The nominated loading port and berth shall at least be able to accommodate Panamax size vessel with minimum draft of channel and berth no less than **14.5** meters.

17. Full names of coal quality inspection companies available at loading port:

18. Labor and Management:

(1) Manpower in mine site:

- Management/Supervision : _____ people
- Clerical staff : _____ people
- Mine workers : _____ people
- Contractors : _____ people

(2) Worker union:(please tick)

- No
- Yes
 - Single Union
 - Multi Unions

(3) Shutdown days in proposed mine for year **2023**

_____ days for labor dispute
_____ days for other causes

19. Attach brochure of coal mine, if any.

Attachment F-4

Information Sheet of Coal Quality (P.1/2)

Gross Calorific Value (Kcal/Kg)	Typical
As Received Basis	
Air Dried Basis	
Total Moisture %	Typical
As Received Basis	
Proximate Analysis (A. D. Basis)	Typical
Inherent moisture %	
Volatile Matter %	
Fixed Carbon %	
Ash %	
Sulphur (A. D. Basis)	Typical
Organic %	
Pyritic %	
Sulphate %	
Total %	
Ash Fusion Temperature (reducing)	Typical
Initial Deformation °C	
Softening °C	
Hemispherical °C	
Fluid °C	
Hardgrove Index (HGI)	Typical
Nominal Size (%)	Typical
> 50 mm	
< 2 mm	

Information Sheet of Coal Quality (P.2/2)

Ultimate Analysis (Dry Ash Free)	Typical
Carbon %	
Hydrogen %	
Nitrogen %	
Oxygen %	
Sulphur %	
Analysis of Ash Constituents %	
SiO ₂	
Al ₂ O ₃	
Fe ₂ O ₃	
CaO	
MgO	
TiO ₂	
Na ₂ O	
K ₂ O	
Mn ₃ O ₄	
P ₂ O ₅	
SO ₃	
BaO	
Trace Analysis (Dry Basis) ppm	
Mercury(Hg)	
Boron(B)	
Fluorine(F)	
Chlorine(Cl)	
Heavy Metals (Dry Basis) ppm	
Stibium(Sb)	
Arsenic(As)	
Beryllium(Be)	
Chromium(Cr)	
Cadmium(Cd)	
Cobaltum(Co)	
Lead(Pb)	
Manganum(Mn)	
Nickel(Ni)	
Selenium(Se)	

Attachment F-5

Information Sheet of Loading Port Facilities

Country	
Name of Port	
Location	
Name of Berth	
Berth :	
(1)Depth (m)	
(2)Length (m)	
Channel Depth (m)	
Max Permissible Vessel Limit :	
(1) L. O. A. (m)	
(2) Beam (m)	
(3) D.W.T. (mt)	
(4) Draft (m)	
Ship Loader(s) :(for coal terminal only)	
(1) No of Loaders	
(2) Capacity (TPH)	
(3) Outreach (m)	
(4) Clear Height (m)	
(5) Travel Distance (m)	
Operation Data :	
(1) Name of Operator(s)	
(2) Working Hours per day	
(3) Annual Throughput (mtpa)	
Stockpile Capacity (mt)	
Guaranteed Loading Rate (mt/wwd)	
Safe Berth and Safe Port Guarantee	<input type="checkbox"/> Yes (Safe Berth & Safe Port)
Permissible Vessel Type	<input type="checkbox"/> Only Geared Type <input type="checkbox"/> Only Gearless Type <input type="checkbox"/> Either Geared Or Gearless Type
Other Special Requirements for Vessel to Load	