



ASIA PACIFIC POTASH CORPORATION LIMITED



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Asia Pacific Potash Co., Ltd

Procurement documents

Employer: Asia Pacific Potash Corp., Ltd.



July, 2026



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Asia Pacific Potash Corporation (APPC)

Udon South Potash Mine - Baseline Data

Collection on Land Subsidence Project

Procurement Document

1. Procurement Content

The Employer (APPC) intends to procure professional geodetic surveying services for establishing a baseline land subsidence monitoring system at the Udon Thani Potash Mine Project. The selected contractor will construct a network of land-subsidence monitoring benchmarks, including 4 Class 1 reference benchmarks (RBM01-RBM04) constructed to RTSD Class 1 standard and 49 Class 2 monitoring benchmarks constructed to RTSD TI (Test Indicator) standard. The contractor shall carry out surveys using a high-accuracy Precise Orthometric Levelling Network (Class 1 for reference benchmarks and Class 2 for monitoring benchmarks) and a high-accuracy Precise 3D GNSS Network (including 4 auxiliary Twin-cap movement-test monuments and a Continuous Operating Receiving Station (CORS)), as detailed in the Terms of Reference (TOR). This baseline data collection is required to comply with the Notification of the Ministry of Industry on Guidelines for the Preparation of Baseline Data on Environment and Health for Potash Mining Projects (dated 23 December 2016) and to support APPC's environmental monitoring obligations under the mining concession conditions. The contractor must provide accurate, comprehensive surveying services and deliver all required data, maps, and reports in both Thai and English to enable APPC to meet regulatory requirements and prepare for ongoing subsidence monitoring during mining operations.

2. Supplier Qualification

1. The supplier must be a legally registered company in Thailand (provide business license or enterprise registration certificate).
2. The supplier must have a professional surveying and mapping qualification certificate and be recognized by Thailand's DPIM or equivalent regulatory authorities for its qualifications, and possess the capabilities of geodetic surveying and settlement monitoring (relevant qualification certificates shall be provided).
3. From the January 1, 2022, the supplier must have completed and fulfilled at least 1 similar project performance contracts for benchmark measurement and settlement monitoring of large and medium-sized mines or major infrastructure projects (copies of contracts must be provided, which



should include at least the contract's title page, scope page, and signature and seal page or client completion certificate).

4. The personnel of the project team that the supplier intends to assign to this project must include registered surveyors and, optionally with geotechnical professionals (registration certificates and professional technical certificates shall be provided).

3. Technical Requirements

The contractor is required to deliver precise and reliable geodetic survey services in accordance with the technical specifications outlined in the TOR (Annex 1). All work must adhere to the Ministerial Regulation on baseline data collection (2016) and the project's DPIM-approved Baseline Data Collection Plan.

Key technical requirements include:

3.1 Benchmark Installation & Surveying: Construct 4 Class 1 reference benchmarks (RBM01-RBM04) to RTSD Class 1 standard with 1×1 m reinforced concrete base and protective fencing, and 49 Class 2 monitoring benchmarks to RTSD TI (Test Indicator) standard, at project-specified locations. Conduct high-accuracy Precise Orthometric Levelling Network surveys (Class 1 for reference BMs, Class 2 for monitoring BMs) with digital level and barcode staff, and high-accuracy Precise 3D GNSS Network surveys (14 selected monuments including 4 Twin-cap movement-test monuments and a CORS installation) to determine accurate baseline elevations.

3.2 Data Accuracy and Standards: Survey measurements must meet or exceed the following accuracy standards as defined in the TOR: Class 1 levelling tolerance $C(\text{mm}) = 4\sqrt{K(\text{km})}$ and Class 2 levelling tolerance $C(\text{mm}) = 8\sqrt{K(\text{km})}$ for orthometric levelling; $\text{GDOP} \leq 3$ and Integer Fixed Solutions for all GNSS baselines. All levelling observations shall follow the BFFB sequence with forward/backward runs, and GNSS observations shall use Final IGS ephemerides. Proper network adjustment using both Minimal Constraint and Free Network methods shall be carried out to ensure data reliability. All survey instruments (e.g., GNSS receivers with ≥ 600 channels, digital levels, barcode staffs) shall have valid calibration certificates from a reliable central agency.

3.3 Deliverable Format: The contractor must produce all reports, maps, and data in both Thai and English languages (two official copies each) along with digital data storage drive. The structure and content of deliverables should follow the TOR requirements – including bilingual survey reports, benchmark descriptions, and data tables – so that they are suitable for submission to Thai authorities and for APPC's internal use.

3.4 Quality Assurance: Implement rigorous QA/QC procedures for all field measurements and data processing. A qualified senior surveyor or geodesist should review and verify the calculations and results. Any discrepancies or anomalies in the data must be investigated and resolved. The contractor will be expected to correct any errors in the deliverables at no additional cost if they are found not



to meet the required standards.

3.5 Safety and Site Compliance: All field work must be carried out with appropriate safety measures. The contractor's personnel shall follow APPC's safety protocols when on site (e.g. use of PPE, hazard communication, etc.), and all surveying activities must be planned and conducted in close collaboration with APPC HSE and LP Departments to avoid any harm to people, property, or the environment.

4. Purchase Quantity and Specifications

This procurement covers the establishment and survey of approximately 53 geodetic benchmarks for land subsidence monitoring (as detailed in the TOR). Specifically, the scope includes installing 4 permanent Class 1 reference benchmarks outside the mining concession area and 49 Class 2 monitoring benchmarks within the 42.3 km² concession, followed by baseline elevation surveys of all these points. The output will be a comprehensive set of deliverables including survey data, coordinates, elevation tables, and maps showing all benchmark locations. All data and documentation must be provided in the required bilingual format (Thai/English). If any additional monitoring points or scope adjustments are deemed necessary (for example, to cover critical infrastructure or expanded areas), they may be added to the scope with prior approval from APPC, and the contract quantity and price will be adjusted accordingly (within the limits of the budget). All equipment, materials, and manpower needed to complete the work are the responsibility of the contractor and should be reflected in the quotation.

5. Service Content and Service Standard

The services to be provided include end-to-end execution of the baseline subsidence survey project, delivery of all required data and reports, and incorporation of APPC's feedback during the review process. Key components of the service and standards expected are:

5.1 Comprehensive Field Surveying: The contractor will perform all necessary fieldwork to establish benchmarks (construction/installation) and conduct precise leveling surveys. This includes obtaining any required permissions for benchmark placement, protecting benchmarks from disturbance, and repeating measurements as needed to ensure accuracy.

5.2 Data Analysis and Reporting: All collected survey data must be processed and analyzed to produce the baseline subsidence dataset. The contractor shall prepare formal Baseline Survey Reports (Thai and English) containing methodology, results (coordinates and elevations of each benchmark), and initial observations (e.g. any slight elevation differentials or slopes detected). Maps and schematic drawings should be included to visualize the network layout and any relevant geological features.



5.3 Deliverable Quality and Completeness: The delivered reports and data should be complete, accurate, and ready for regulatory submission. This means the documentation must fully satisfy DPIM's requirements for baseline data reporting. Key expectations include: correct implementation of surveying techniques (e.g. closure error within allowable limits), clear presentation of results (tables, graphs, maps), consistent use of terminology (technical terms in Thai and English), and an executive summary of findings. The deliverables should be suitable for APPC to use in future comparisons (annual monitoring) and to address any stakeholder concerns about land subsidence.

5.4 Collaboration and Feedback: The contractor is expected to work closely with APPC's team. Draft deliverables (e.g. interim survey results or a draft report) may be reviewed by APPC and its consultants. The contractor must address any comments or required changes promptly. All final deliverables should incorporate feedback to the satisfaction of APPC and DPIM.

5.5 Post-survey Support: As part of service standards, the contractor should provide a briefing or presentation of the survey findings to APPC's management (if requested), and ensure that APPC staff are informed about the baseline results and how subsequent monitoring should be carried out relative to this baseline. (For full technical details of the project requirements, refer to Annex 1: Terms of Reference.)

6. Other Requirements

Truthfulness and Ethics: Bidders must ensure that all information and documentation provided in their proposals (and any subsequent clarifications) are truthful, accurate, and verifiable. The employer reserves the right to verify any claims or documents submitted. If a bidder is found to have misrepresented information, submitted falsified documents, or engaged in any fraudulent or unethical behavior in an attempt to win this contract, APPC reserves the right to disqualify that bidder's proposal and may pursue further legal remedies. Similarly, any form of collusion or conflict of interest in the bidding process will result in disqualification.

Compliance with Safety Standards: The contractor must comply with APPC's safety, health, and environmental (HSE) standards throughout the execution of the project. All personnel working on APPC's site or facilities must undergo safety orientation and adhere to APPC's rules (for example, use of appropriate PPE, adherence to work permit systems, etc.). The contractor should have in place a safety management plan for the field activities and will be responsible for any safety incidents arising from negligence. Non-compliance with safety requirements could be grounds for contract termination or penalties. In addition, the contractor must collaborate with APPC in order to obtain site access permissions as advised by APPC.

Budget and Financial Conditions: The maximum budget (ceiling price) for this project is THB 3,500,000 (Thai Baht), inclusive of all applicable taxes and charges. Bidders' financial proposals must not exceed this budget. Any proposal with a total price exceeding THB 3,500,000



may be rejected. The price should be quoted in Thai Baht and should cover all aspects of the work as described in the TOR. Payment terms will be as per the draft contract and will generally be structured in milestones.

Language of Deliverables: As noted, all final deliverables (reports, documentation, correspondence) must be provided in both English and Thai. The contractor should ensure adequate language capabilities in its team for producing professional-quality documents in both languages. If translation support is needed for the Thai versions, the contractor should factor that into their approach to guarantee accuracy and consistency between the English and Thai deliverables.

Reservation of Rights: APPC reserves the right to accept or reject any or all proposals, to waive minor irregularities, and to request clarifications or additional information as needed. The issuance of this procurement document does not commit APPC to award a contract. APPC also reserves the right to cancel or re-issue the procurement in the event that an insufficient number of qualified bids are received or for any other reason in accordance with company policy.

7. Procurement Method

Public Request for Quotation (RFQ) – This procurement will be conducted through an open and competitive public invitation for quotations. The procurement announcement and relevant documents will be publicly shared on the Procurement Section of the official APPC website. APPC invites all qualified firms, institutions, and agencies with relevant expertise in Thailand to participate and submit their proposals. All submitted proposals will be evaluated against the defined technical and financial criteria, and the contract will be awarded to the bidder that demonstrates the best overall value to APPC.

8. Procurement Form

Form of Public Notice – This procurement is being carried out through a public notification process. The employer will publicly post this Procurement Document (including the TOR and all annexes) on the Procurement Section of the official APPC website. Any capable and qualified supplier in Thailand is entitled to access the documents and submit a proposal. All interested parties will have access to the same information and will be given equal opportunity to seek clarifications within the specified timeframe to ensure a fair, just, and transparent process.

9. Obtaining Time of Procurement Documents and Obtaining place (How to get it)

From 21 July 2026 to 31 July 2026, interested suppliers may obtain the official procurement documents for this project via electronic means. APPC will make the complete procurement package (including the TOR, all annexes, and templates) publicly available for download on the Procurement Section of the official APPC website. If any interested supplier experiences technical difficulties or fails to access the documents by 25 July 2026, they should contact the APPC representative (see



Section 11) immediately. It is the sole responsibility of the prospective bidders to ensure they have downloaded all parts of the procurement package during this period. No fee will be charged for obtaining these procurement documents.

10. Submission of Response Documents

Submission Deadline: Before 08:00 (Bangkok Time) on 21 August 2026 (could it be 3 weeks). All proposal documents must be submitted to the employer no later than 08:00 on 21/08/2026. Late submissions, even by a few minutes, will be rejected and not considered for evaluation.

Submission Method: Bidders shall submit their response documents electronically via email to the designated email address provided by APPC for this tender (tender@appc.co.th). The entire proposal should be submitted as email attachments (or a download link, if files are large). The use of the provided Response Document Template (Annex 2) is mandatory for structuring the proposal. The submission email must contain, at a minimum, the following documents: a Quotation Sheet (price offer) duly filled and signed, a Technical Proposal, and the other required documents specified in Annex 2. The bidder should organize these documents according to the template for ease of review.

Format and Requirements: The proposal documents should be in PDF format (or Microsoft Word for sections requiring forms) and must be signed or stamped by the authorized representative of the bidder where indicated. The email's subject line and the filenames of attachments should clearly indicate the project name and the bidder's name (for example: "Proposal_Baseline Subsidence Survey_<Company Name>.pdf"). Bidders are strongly advised to double-check that their email submission has been successfully sent and received before the deadline. Late submissions or proposals that do not conform to the format requirements (e.g., missing the Quotation Sheet or Technical Proposal, not using the required template) may be rejected at APPC's discretion.

11. Clarifications and Contact Information

Contact Person: MISS.SUPAPORN SRIRING

Telephone: 085-058-7333 (within Thailand)

Email: supaporn@appc.co.th

Bidders may seek clarifications or further information regarding this procurement up until the specified deadline. Any request for clarification must be submitted in writing on the bidder's official letterhead (or email with equivalent company identification) and sent via email to the contact person above. The bidder should clearly reference the section of the procurement documents or TOR that the query relates to, and clearly state the question. After sending the inquiry by email, the bidder must inform the contact person by phone to ensure that the email was received.



The deadline for submitting clarification questions is 17:00 (Bangkok Time) on 10 August 2026. No new clarification queries will be entertained after this time. It is the bidder's responsibility to request clarification before the deadline if any part of the requirements is unclear.

To ensure transparency and equal opportunity for all potential competitors, all clarification questions received, together with APPC's consolidated responses, will be compiled into the Minutes of Clarifications. These Minutes will be officially published on the procurement section of the APPC official website. Individual or exclusive responses will not be provided to any single bidder, and all clarification contents shall be fully shared with and accessible to all bidders.

(No formal bidder briefing meeting or site visit is scheduled for this tender. However, if a bidder deems a site visit necessary to understand the project area, they may contact the APPC representative to request one. Any site visit, if arranged, will be optional and at the bidder's own cost and risk. APPC will coordinate as needed but will not bear responsibility for travel or logistics. All information necessary for bidding is provided in the TOR and documents. Any approved requests for supplementary project data (e.g., maps, previous studies) will be issued to all bidders simultaneously via the official website to maintain a fair bidding environment.)

12. Evaluation Method (Comprehensive Scoring)

The evaluation of proposals will be conducted using a Comprehensive Scoring Method, taking into account the bidder's qualifications (business/commercial aspects), the quality of the technical proposal, and the price (financial offer). The weighting of each aspect in the total score is as follows:

Business/Commercial – 10% of total score (10 points)

Technical – 60% of total score (60 points)

Financial (Price) – 30% of total score (30 points)

Each proposal from a compliant bidder will be evaluated by an evaluation committee appointed by APPC. The committee will assign scores for the Business and Technical portions based on predefined criteria, and will calculate the Price score according to the formula/method described below. The total score (out of 100) will determine the ranking of proposals. The contract will be awarded to the bidder whose proposal achieves the highest total score, provided it meets all mandatory requirements and is within the budget. In the event that the top-scoring proposal is disqualified or the bidder withdraws, the next highest scoring proposal may be considered.

Business/Commercial Review (Score: 10 points) – This aspect evaluates the bidder's corporate



qualifications, relevant experience, and overall capability to perform the contract. Factors include the bidder's experience with similar projects (baseline subsidence surveys or geodetic monitoring networks), references from past clients, existence of required certifications or DPIM or relevant regulatory recognition, and the financial stability and legal compliance of the firm. Scoring guideline: A bidder with excellent relevant experience and qualifications (e.g. multiple similar projects successfully completed, recognized expertise in subsidence monitoring) will score in the range of 8–10 points. A bidder with moderate experience/qualifications (some relevant projects or partial experience) will score around 4–7 points. A bidder with minimal relevant experience or qualifications will score 1–3 points. Bidders with no relevant experience or who fail to meet the basic qualification criteria will score 0 and may be disqualified.

Technical Review (Score: 60 points) – This aspect evaluates the quality and feasibility of the Technical Proposal. It examines how well the bidder understands the project requirements and the soundness of their proposed methodology, work plan, team, and safety/quality management. Key sub-criteria include:

Proposed Methodology & Work Plan: The clarity and robustness of the approach to executing the subsidence baseline survey. This includes how the bidder plans to establish benchmarks (techniques, materials), conduct leveling and GNSS measurements, ensure accuracy, and manage data. It also covers the proposed timeline (the schedule to complete the benchmark construction and GNSS measurements) and whether it is realistic. (Up to 30 points.)

Team Qualifications & Resources: The expertise and experience of the team assigned to the project. Evaluators will consider the qualifications of key personnel (lead surveyor, geotechnical engineer, etc.), the availability of necessary equipment (e.g., high-precision levels, GNSS units), and the bidder's overall resource capability to deliver the project on time. (Up to 20 points.)

Health, Safety & Quality Management: The bidder's plan for ensuring safety during field operations and quality control of data. This includes any project-specific safety measures (working in remote areas, traffic control for roadside benchmarks, etc.), a public collaboration plan jointly with APPC to obtain site access, and the quality assurance procedures for survey data (double-checking measurements, independent verification). A strong plan that aligns with APPC's safety standards and ensures reliable results will score higher. (Up to 10 points.)

The technical proposal must achieve a minimum score (if any minimum threshold is defined by APPC) to be considered technically responsive. The evaluators will assign scores for each sub-criterion and sum them to get the technical score (maximum 60).

Table 1. Technical Scoring Table



Serial Number	Scoring Item	Standard Score	Scoring Criteria
1	Proposed Methodology & Work Plan	30	This criterion evaluates the bidder's proposed methodology for constructing reference and monitoring benchmarks to RTSD standards, conducting Precise Orthometric Levelling Network surveys (Class 1 and Class 2), carrying out Precise 3D GNSS Network surveys (including Twin-cap monument installation and CORS operation), ensuring survey accuracy, and managing and delivering survey data. The evaluation will consider the completeness, technical soundness, feasibility, and practicality of the proposed work plan, as well as the bidder's ability to achieve the accuracy requirements of the project. 20–30 Points (Excellent): The proposed methodology is comprehensive, technically sound, practical, and highly feasible; 10–19 Points (Good): The proposed methodology is generally adequate and capable of meeting the project requirements; 1–9 Points (Poor): The proposal provides limited, incomplete, or unclear information regarding benchmark establishment, survey methodology, quality control, or data management.
2	Team Qualifications & Resources	20	This criterion evaluates the qualifications and experience of the bidder's key personnel (including registered surveyors, geodetic engineers, and GNSS specialists), the availability and suitability of the proposed equipment (including digital levels with barcode staffs, GNSS receivers with ≥ 600 channels capable of GPS+GLONASS, Choke Ring antenna, and CORS equipment), and the bidder's overall resource capability to successfully complete the project within the required schedule. 13–20 Points (Excellent): The proposed technical team is complete and well-structured, with qualified personnel covering all required disciplines. The proposed equipment is comprehensive, sufficient in quantity, and capable of achieving the accuracy requirements specified in the procurement documents. The bidder demonstrates strong overall resource capability and a high likelihood of delivering the project successfully and on schedule;



Serial Number	Scoring Item	Standard Score	Scoring Criteria
			6–12 Points (Good): The proposed technical team and equipment are generally adequate to perform the project. Most key positions are covered, and the proposed equipment is sufficient to meet the basic project requirements, although some resources, experience, or technical capabilities may be limited; 1–5 Points (Poor): The proposed technical team is incomplete, lacks key personnel, or does not demonstrate sufficient experience. The proposed equipment is inadequate, unavailable, or unlikely to meet the project requirements and accuracy standards. The bidder's overall resource capability is considered weak.
3	Health, Safety & Quality & Local Community Management	10	This criterion evaluates the bidder's proposed Health, Safety, Environment (HSE), Quality Assurance (QA/QC), and Local Community Management measures for the execution of the project. 1. HSE and Quality Management (5 Points) The bidder shall demonstrate: Project-specific safety measures for field operations, including work in remote areas, roadside locations, agricultural land, and public access areas. 4–5 Points (Excellent): Comprehensive and well-developed HSE and QA/QC management system fully compliant with Thai regulations and international best practices. 2–3 Points (Good): Adequate HSE and QA/QC measures with minor deficiencies but generally capable of meeting project requirements. 0–1 Point (Poor): Limited or insufficient HSE and QA/QC measures, or significant gaps in regulatory compliance and quality control. 2. Local Community Management and Social Responsibility (5 Points) 4–5 Points (Excellent): Demonstrates a comprehensive community engagement strategy with clear commitments to local employment, local procurement, stakeholder engagement, and conflict prevention/resolution.



Serial Number	Scoring Item	Standard Score	Scoring Criteria
			2–3 Points (Good): Provides reasonable community management measures with some local engagement initiatives but limited detail or commitment. 0–1 Point (Poor): Provides minimal consideration of community relations, local participation, or conflict management.
Total		60	

Financial (Price) Review (Score: 30 points) – The price score will be calculated based on the bidder's proposed total price (inclusive of all taxes) as given in the Quotation Sheet.

(1) When the number of bidders passing the preliminary evaluation is 4 or more, the calculation method is as follows:

Benchmark price for bid evaluation = the second lowest price (second lowest price) passing the preliminary evaluation $\times 100\%$

Calculate the deviation rate δ of the bid evaluation price of the bidder;

$\delta = (\text{bid evaluation price of the bidder} - \text{bid evaluation benchmark price}) / \text{bid evaluation benchmark price} \times 100\%$;

When $\delta \leq 0$, score 30 points;

When $\delta > 0$, the score of bidding quotation shall be deducted by 1 points for every 1 percentage point increase of δ on the basis of 30 points, and the minimum deduction shall be 10 points.

(2) When the number of bidders passing the preliminary evaluation is 3, the calculation method is as follows:

Benchmark price for bid evaluation = Lowest price $\times 100\%$

Calculate the deviation rate δ of the bid evaluation price of the bidder;

$\delta = (\text{bid evaluation price of the bidder} - \text{bid evaluation benchmark price}) / \text{bid evaluation benchmark price} \times 100\%$;

According to the deviation rate δ of the bidder's bid evaluation price, the bidder's quotation score is determined as follows:

When $\delta = 0$, score 30 points;

When $\delta > 0$, the score of bidding quotation shall be deducted by 1 points for every 1 percentage point increase of δ on the basis of 30 points, and the minimum deduction shall be 10 points.

After scoring each proposal on the Business, Technical, and Financial criteria, the evaluation committee will combine the scores to determine the Total Score out of 100 for each bid. The rankings will be established accordingly. APPC will then proceed to award the contract to the highest-ranked bidder. If two or more proposals are tied in score, APPC may give preference to the one with the higher Technical score.



Review procedure: The evaluation committee shall review the response documents submitted by all suppliers in accordance with the requirements specified in the procurement documents. Only suppliers pass the Qualification Review shall be eligible to proceed to the subsequent Business, Technical, and Financial evaluations. According to the Tendering and Procurement Management Regulations of Asia Pacific Potash Corporation Ltd. (APPC), the number of suppliers that pass the qualification review shall be no fewer than three (3).

13.Draft Contract:

A draft form of the contract that the successful bidder will be expected to sign is provided in Annex 3. Bidders should review this draft contract and ensure that they are able to comply with its terms and conditions. The final contract will be prepared by APPC, incorporating the main terms from the draft and specific details (e.g., contract value, timeline, deliverables) based on the successful bidder's proposal. Bidders are not required to fill out or sign the draft contract at this stage; it is provided for reference and to allow bidders to understand APPC's standard contract terms. If a bidder wishes to propose any exceptions or modifications to the contract terms, these should be clearly stated in their proposal (however, bidders should note that significant deviations from the standard terms may affect the evaluation of their offer or the willingness of APPC to award the contract).

14.Quotation format and requirements:

Reasonably compile according to the characteristics of the project, see Annex 2: Response Document Template.

Note: If there are arithmetic errors or other errors in the response quotation, the review panel shall require the supplier to correct the response quotation in accordance with the following principles and request the supplier to provide written clarification and confirmation. If the supplier refuses to clarify and confirm, its response document shall be deemed invalid:

- (1) If the total price amount is inconsistent with the unit price amount, the unit price amount shall prevail, except where there is an obvious error in the decimal point of the unit price amount;
- (2) If the total quotation in the quotation table does not match the sum of the itemized quotations, the cumulative total of the itemized quotations shall prevail;
- (3) If there are missing items in the itemized quotation, and the content of the missing items does not constitute a material deviation, it shall be deemed that the price of the missing items has been included in other itemized quotations.



Terms of Reference (TOR)
Baseline Data Preparation for Land Subsidence
Udon Thani Potash Mine Project

1. Background

The potash mining project is a large-scale underground mining project covering a wide area. Several project activities may cause environmental impacts on communities surrounding the project area, including the processing plant area and the tailings storage area pending backfilling into voids within underground tunnels. Underground potash mining requires underground mine design and measures to control mining-induced surface subsidence within an acceptable level, so as to prevent subsidence that may damage structures or assets on the ground surface or extend beyond the project area. The Department of Primary Industries and Mines therefore issued the Notification of the Ministry of Industry on Guidelines for the Preparation of Baseline Data on Environment and Health for Potash Mining Projects, dated 23 December 2016. The Notification requires the establishment of surface-subsidence monitoring points covering the entire project area and the survey of coordinates and elevations of such points during the pre-underground-mining period, the operation period, and the mine-closure period, with elevation checks to be conducted every year. The Udon Thani Potash Mine Project has prepared a plan for collecting Baseline Data on land subsidence before mining, by referring to the locations of subsidence-monitoring monuments under the environmental impact prevention and mitigation measures, together with the Notification of the Ministry of Industry on Guidelines for the Preparation of Baseline Data on Environment and Health for Potash Mining Projects, dated 23 December 2016, for submission to the Department of Primary Industries and Mines for consideration and approval.

Asia Pacific Potash Corporation, Ltd. therefore intends to construct a land-subsidence monitoring system and carry out surveys using a Precise Orthometric Levelling Network and a Precise 3D GNSS Network, in order to prepare baseline data for the project area before mining and for future mineral processing and product production. This is to comply with the Notification of the Ministry of Industry and the conditions attached to the mining concessions.

2. Objectives

2.1 To establish Reference Benchmarks for Land Subsidence Monitoring and Land Subsidence Monitoring Benchmarks to support the development of Baseline Data for Land Subsidence, in accordance with the requirements stipulated in the annexes to the Mining Lease conditions for the Udon Thani Potash Mining Project under Mining Lease Nos. 27206/16504, 27207/16505, 27208/16506, and 27209/16507, while taking into consideration the long-term development of the project as well as its potential impacts on the surrounding communities and society.



2.2 To conduct high-precision orthometric levelling surveys by establishing an Orthometric Levelling Network, consisting of:

First-Order Orthometric Levelling for the Reference Benchmarks; and

Second-Order Orthometric Levelling for the Land Subsidence Monitoring Benchmarks.

The levelling network shall be connected to the Royal Thai Survey Department (RTSD) Vertical Control Benchmarks, and the survey results shall be adjusted and computed to establish the First-Epoch Reference Elevation Dataset for Land Subsidence Monitoring for the Project.

2.3 To conduct high-precision three-dimensional GNSS network surveys for research on land movement monitoring using satellite geodetic techniques. The GNSS network shall utilize selected benchmarks from both the Reference Benchmarks for Land Subsidence Monitoring and the Land Subsidence Monitoring Benchmarks, together with the installation of four (4) Twin-cap Control Monuments for deformation monitoring and verification purposes.

2.4 To evaluate the performance and applicability of Precise Orthometric Levelling Networks in comparison with Precise Three-Dimensional GNSS Networks for establishing land subsidence baseline data, with the objective of determining the most appropriate methodology for future land subsidence monitoring and baseline data development.

3. Project Area

The Udon Thani Potash Mine Project area is located in Nong Khon Kwang Subdistrict, Non Sung Subdistrict and Nong Phai Subdistrict, Mueang District, and Huai Sam Phat Subdistrict and Na Muang Subdistrict, Prachaksinlapakhom District, Udon Thani Province, including nearby areas. The total area is 26,446 rai, 1 ngan, 49 square wah, or approximately 42.3 square kilometres. The land-subsidence area where monuments will be constructed and surveys will be conducted forms part of this potash mine project area.

4. Project Duration

The Contractor shall perform and complete all Services within the scope of work in a complete and satisfactory manner in accordance with the proposed work plan, within one hundred and twenty (120) calendar days from the date following the execution of the Contract.

The Bidder shall submit a detailed work schedule as a separate document for the Company's review and consideration in determining the implementation period. The proposed work schedule shall reflect the Bidder's actual capability and readiness while remaining within the above-mentioned contractual time frame.

The Company shall make payments to the Contractor in installments (milestone payments) upon the Contractor's successful completion and delivery of each work stage in accordance with the requirements specified in Section 6 (Deliverables and Payment Schedule).



5. Scope of Work

The preparation of baseline data on land subsidence shall be carried out in accordance with the Baseline Data preparation plan. The Contractor shall perform the work under Phase 1, covering concession area (1) No. 27206/16504 and concession area (2) No. 27207/16505, which constitute the mining phase within the first 10 years, before proceeding to Phase 2 in the remaining concession areas, namely concession area (3) No. 27208/16506 and concession area (4) No. 27209/16507, until all areas are completed, as follows:

5.1 The Contractor shall construct a total of four (4) Reference Benchmarks (RBMs) for land subsidence monitoring, designated as RBM01, RBM02, RBM03, and RBM04*. The locations of these benchmarks have already been specified by the Project. The Reference Benchmarks shall be constructed in accordance with the Royal Thai Survey Department (RTSD) First-Order Benchmark Construction Standard. Each benchmark shall be provided with an enlarged reinforced concrete foundation measuring 1.0 m × 1.0 m. A permanent identification plaque displaying the benchmark designation and relevant information shall be embedded into the monument. The plaque shall be made of weather-resistant metal suitable for long-term outdoor exposure. In addition, each benchmark shall be protected by a protective barrier or fence to prevent damage or disturbance caused by vehicles or unauthorized persons.

5.2 Construction of a total of 49 land-subsidence monitoring benchmarks at locations already specified by the project. The benchmark construction shall comply with the TI (Test Indicator) benchmark construction standard of the Royal Thai Survey Department. A nameplate containing benchmark details shall be embedded. The nameplate shall be a metal plate resistant to weather conditions, and a protective sign shall be installed to prevent disturbance by vehicles and persons.

5.3 Carry out surveys using a high-accuracy Precise Orthometric Levelling Network, with Class 1 work for the reference benchmarks and Class 2 work for the subsidence monitoring benchmarks.

- The level instrument shall be a digital level, and the staff shall be a full-length rigid barcode staff.
- Before field work every morning, a Two-peg Test shall be conducted, with collimation error less than 1.5 mm at 80 metres.
- The sight length from the level instrument to the staff shall not exceed 60 metres.
- Staff readings for level observations shall be read and recorded in the “BFFB” sequence.
- Levelling to determine height differences between reference benchmarks shall be run forward and then immediately run backward. If a levelling line is longer than 3 kilometres, it shall be divided into shorter sections, and temporary turning points shall be firmly established and clearly



named.

- The difference between forward and backward height differences shall not exceed the specified tolerance for Class 1 $C_{mm} = 4\sqrt{K_{km}}$ and Class 2 levelling $C_{mm} = 8\sqrt{K_{km}}$.

- The Class 1 levelling loop shall pass through reference benchmarks RBM01, RBM02, RBM03 and RBM04, as well as the Royal Thai Survey Department benchmark No. PBM.2326, and shall be designed as a single loop. If the route allows passage through any monitoring benchmark, levelling shall also be carried through that benchmark by setting the staff on the monitoring benchmark.

- The Class 2 levelling loops for all remaining monitoring benchmarks shall be designed to start from the Class 1 levelling loop and return to close on benchmarks in the Class 1 loop.

- The average height differences obtained from forward and backward levelling between benchmarks shall be assembled into a levelling network. Elevations shall then be computed by reference to the Royal Thai Survey Department benchmark No. PBM.2326 at Nong Han Witthaya School, Nong Han District, Udon Thani Province (Minimal Constraint Network). The results shall be submitted as a benchmark elevation dataset together with accuracy statistics.

- Alternative elevations shall be computed using the Free Network or Zero Constraint Network method, and the benchmark elevation dataset and accuracy statistics shall be submitted.

- Prepare a survey report for the high-accuracy Precise Orthometric Levelling Network, with Class 1 work for the reference benchmarks and Class 2 work for the subsidence monitoring benchmarks.

5.4 The Contractor shall carry out a high-precision three-dimensional Global Navigation Satellite System (GNSS) network survey to support the research and monitoring of ground movement using satellite geodetic techniques. The GNSS network shall consist of fourteen (14) selected control monuments, comprising selected Reference Benchmarks (RBMs) for land subsidence monitoring and Land Subsidence Monitoring Benchmarks (LBMs) established under this Project. Among these monuments, four (4) Twin-cap Monitoring Monuments shall be installed as additional structures on the existing concrete benchmark foundations to facilitate ground movement and deformation monitoring. These monuments shall be designated as: T-RBM01, T-RBM04, T-LBM07, and T-LBM09. The technical specifications and operational requirements for the GNSS network survey and the Twin-cap Monitoring Monuments shall be as follows:

- Additional construction shall be undertaken by installing four auxiliary Twin-cap movement-test monuments, initially at RBM01, RBM04, LBM07 and LBM09.

- At least six GNSS receivers shall be provided. The receivers shall be



of the same type and model, have not less than 600 channels, and shall be capable of receiving at least GPS and GLONASS signals.

- The satellite antenna tripods shall be three-legged type with 2-meter center staff. The number of tripods shall be equal to the number of GNSS receivers. Centering and completeness shall be checked before operation begins.

- The antenna reference direction or orientation shall be aligned to true north (± 5 degrees), consistent with the IGS antenna model.

- The minimum satellite elevation mask angle shall be 10 degrees.

- Baseline surveying shall follow the project-specified design: the first round comprises 31 baselines, and after completion a second round of observations shall be conducted for another 31 baselines.

- For each satellite baseline observation, at least 4+ common satellites shall be visible, and the maximum geometric dilution of precision (GDOP) shall not exceed 3.

- For simultaneous and continuous baseline observations with n receivers, only $(n-1)$ baselines are independent.

- The sampling epoch for signal recording shall be every 10 seconds.

- The observation time for each baseline shall be 60 minutes.

- Baseline processing shall use Final IGS satellite ephemerides, together with a tropospheric model (Hopfield or Saastamoinen) and an ionospheric model.

- All baseline processing shall result in Integer Fixed Solutions.

- Signal quality shall be checked and data shall be edited as necessary and with justification.

- The 3D GNSS network results shall be assembled on ellipsoidal-height reference, computed as a Free Constraint adjustment, quality-checked, and summarized with survey statistics.

5.5 To enhance the GNSS survey network, the Contractor shall carry out supplemental surveying through the installation of a Continuous Operating Reference Station (CORS) located near the center of the GNSS survey network. The Bidder shall submit a separate quotation for the supply of new CORS equipment that complies with the technical requirements specified herein. Prior to contract execution, the Company reserves the right to procure either the proposed new equipment or suitable second-hand equipment from other sources at its sole discretion. The Contractor shall be responsible for the installation of the selected CORS equipment at the designated location, which is anticipated to be on the roof of the three-story temporary office building, subject to confirmation based on site conditions and installation feasibility. The CORS system shall comply with the following technical requirements:

- Install a semi-permanent CORS antenna monument using a tripod with a fixed antenna height of 2.0 m. The tripod legs shall be securely



stabilized using sandbags or equivalent ballast, and the installation shall include appropriate measures to protect the station from interference and unauthorized disturbance throughout 24-hour operation.

- Install a Choke Ring GNSS antenna, with the antenna reference orientation aligned toward true north, in accordance with the applicable IGS antenna model.

- The GNSS receiver shall support not fewer than 400 tracking channels.

- The CORS shall continuously collect GNSS observations 24 hours per day throughout the period during which GNSS baseline observations are being conducted in the field.

- Independent baseline solutions shall be computed between the CORS and the field GNSS network. Accordingly, one (1) additional independent baseline shall be generated for each GNSS observation session.

- The computed CORS baselines shall be integrated with the previously processed GNSS baselines to increase the number of baseline observations and improve the overall strength and redundancy of the network adjustment.

- A three-dimensional GNSS network adjustment shall be performed using ellipsoidal heights, employing a Free Network (Free Constraint) Adjustment. The Contractor shall perform quality control, evaluate the network adjustment, and provide a statistical summary of the survey results.

- The three-dimensional GNSS network datum shall subsequently be established using Precise Point Positioning (PPP) based on 24-hour observations over three (3) consecutive days. The adjusted network coordinates shall be reported in terms of both ellipsoidal heights and orthometric elevations (Mean Sea Level) through application of the Thailand Geoid Model 2017 (TGM-2017) and by connecting the network to the Royal Thai Survey Department First-Order Benchmark PBM.2326.

- Following datum establishment, a Free Constraint Adjustment shall again be performed. The Contractor shall conduct quality assessment, prepare statistical summaries of the network adjustment, and submit the complete dataset to the Project for subsequent congruency testing in support of future land subsidence analysis.

- The final results of the high-precision three-dimensional GNSS survey network shall be used to evaluate and compare its performance and applicability against the Precise Orthometric Levelling Network for establishing baseline land subsidence data.

5.6 Construction of reference benchmarks and monitoring benchmarks in the forms shown in the appendices shall require appointment and notification to each site owner regarding the objective of constructing survey monuments before every field operation. After construction is complete, a sketch map showing the approximate location shall be prepared, photographs of the monument shall be taken, and a Station



Description shall be prepared.

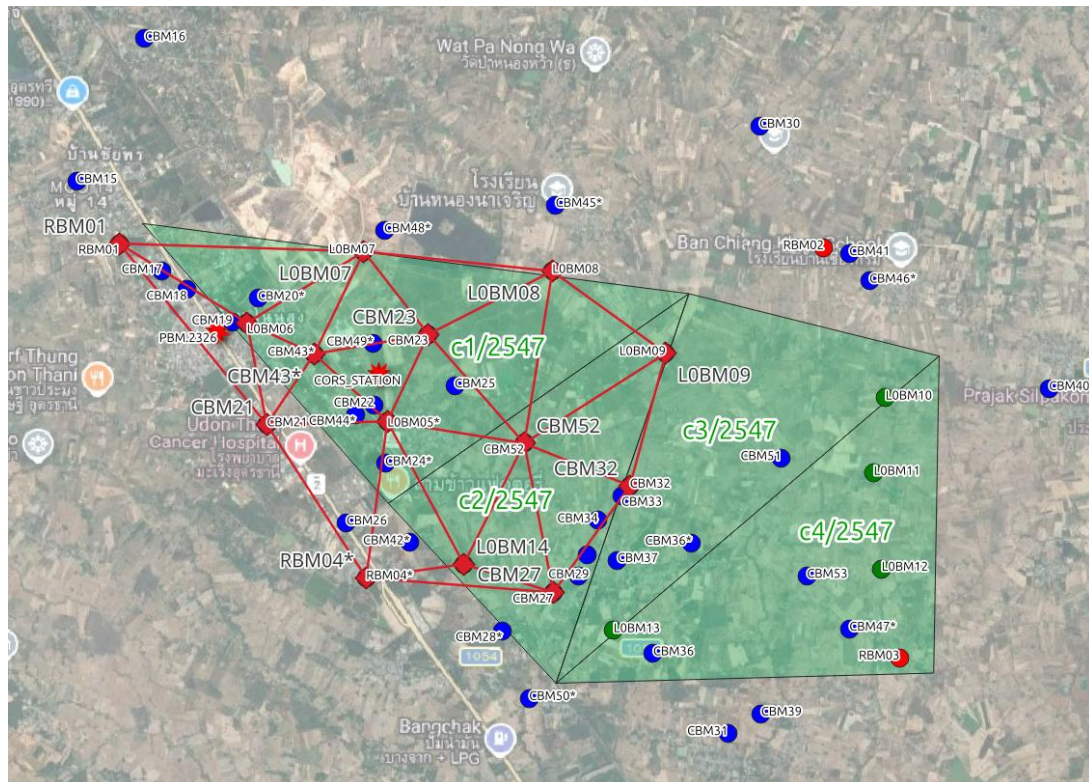


Figure 1 shows the locations of the monuments and GNSS baseline observations, (Baseline Data), Udon Thani Potash Mine Project

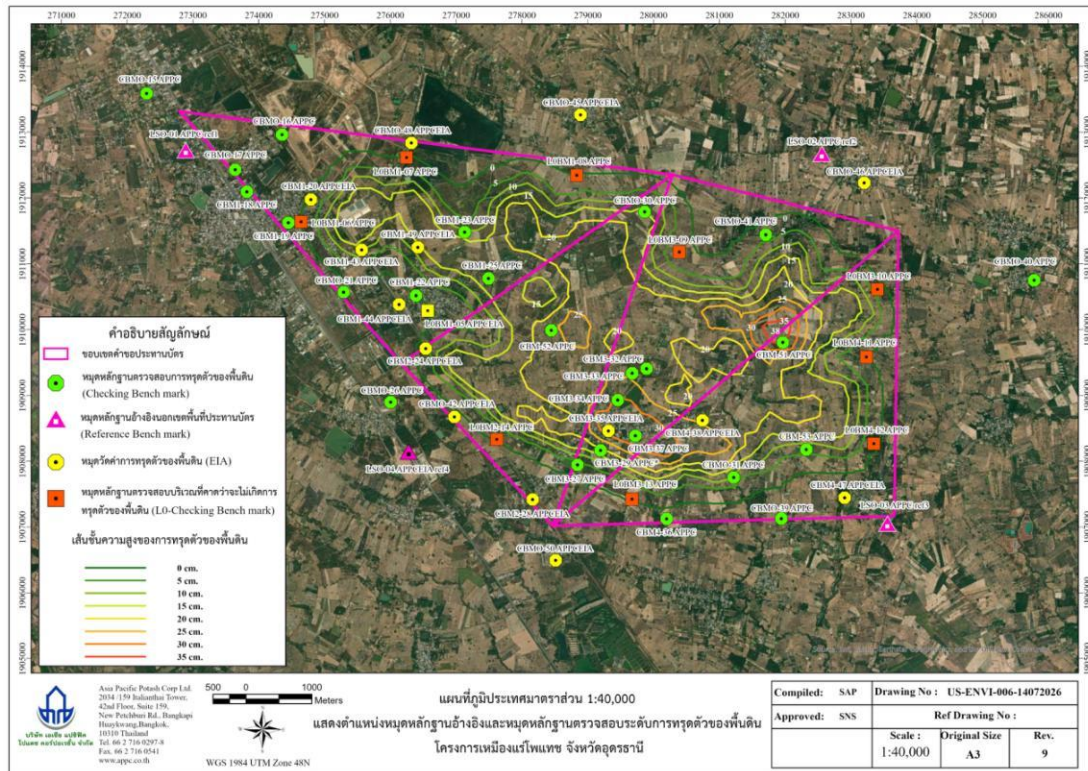


Figure 2 shows the locations of the reference benchmarks and monitoring benchmarks according to the Baseline Data preparation plan.

6. Deliverables

6.1 The Contractor shall submit a report presenting the results of the orthometric levelling survey and elevation computations derived from differential levelling using a digital level and barcode levelling staff. The report shall include the adjusted elevations computed using Free Network Adjustment (or Zero-Constraint Network Adjustment) and Minimum Constraint Adjustment, together with the complete benchmark elevation dataset and statistical accuracy assessment.

6.2 The Contractor shall submit a report presenting the results of the high-precision three-dimensional GNSS network adjustment. The network shall be adjusted using Free Network Adjustment (or Zero-Constraint Network Adjustment) and Minimum Constraint Adjustment, with the CORS coordinates established by Precise Point Positioning (PPP). The report shall include the complete coordinate and elevation dataset of all survey monuments together with the statistical accuracy assessment of the network.

6.3 The Contractor shall submit the final survey report in both Thai and English, consisting of two (2) official hard copies in a format acceptable to the relevant Thai government authorities, together with an electronic copy stored on a USB flash



drive (Thumb Drive). The report shall include, but not be limited to, the following:

- Details of the benchmark construction, including plan views, cross-sectional drawings, and descriptions of the construction materials used.
- A description of the survey scope, survey methods, equipment and instruments used, levelling procedures, GNSS survey methodology, and network adjustment procedures.
- A summary of any problems, constraints, or unforeseen circumstances encountered during the survey, including natural disasters or other events that prevented or interrupted survey operations, together with explanations suitable for submission to the relevant government authorities.
- Any additional information related to the benchmark construction or survey work as may be requested by the Department of Primary Industries and Mines (DPIM) or other competent government authorities.

6.4 Prior to commencing the survey, the Contractor shall ensure that all survey instruments and accessories have been inspected and verified to comply with the applicable technical standards. Inspection and verification certificates issued by an independent and recognized calibration authority shall be submitted. The Contractor shall also provide valid calibration certificates and reports for the following equipment:

- Digital level;
- Barcode levelling staff; and
- GNSS receivers and associated equipment.

6.5 The Contractor shall prepare:

- Benchmark Station Description Sheets for all survey monuments;
- A summary of the survey activities and results; and
- A comprehensive Final Survey Report.

6.6 The Bidder shall prepare the following proposal documents in English to facilitate the Company's evaluation:

- Cover Letter; and
- Bill of Quantities (BOQ).
- The technical proposal and supporting technical documents may be submitted in Thai.

6.7 The Contractor shall submit all reference documents used in carrying out the survey, including but not limited to:

- Reference benchmark information and control point records;
- Official benchmark documentation issued by the Royal Thai Survey Department (RTSD);
- Original field books and observation records;
- Photographs documenting the survey activities and work procedures;
- Photographs showing the locations of all Reference Benchmarks (RBMs) and Land Subsidence Monitoring Benchmarks (LBMs); and
- Any other supporting documentation relevant to the survey and benchmark establishment.



7. Duties and Responsibilities of the Contractor

7.1 The Contractor shall be responsible for all professional operations under the Terms of Reference and the contract, and shall deliver the related work within the specified period.

7.2 The Contractor shall provide personnel who have the knowledge, capability, skill and expertise for the assigned work, and shall be responsible for its own personnel in performing work under Thai law.

7.3 The Contractor shall maintain all information and documents related to the work and shall make them available to the Company at all times. If any information or documents are lost in whole or in part due to the fault of the bidder, the bidder shall be responsible for the cost of correcting or recreating such information.

7.4 During performance of the work, the Company reserves the right not to permit the bidder to perform work for other agencies where such work may conflict with the project or with the interests of the Company.

7.5 The Contractor shall not subcontract, assign, transfer, or abandon the work for others to perform on its behalf, whether in whole or in part, without the Company's written consent. Even if the bidder receives the Company's consent, the Contractor shall remain fully responsible for performance of the work under these Terms of Reference (TOR).

7.6 The Contractor shall be directly responsible for any damage to the Company's property or to third parties arising from performance of duties without guidance from the Company's officers, and for any accidents arising from the bidder's operations.

7.7 The Contractor shall provide sufficient personnel for the work, provide personal protective equipment for its employees, and fully comply with the safety requirements and regulations prescribed by APPC as the Employer.

7.8 The Contractor shall warrant that the monuments constructed will not settle due to the monument construction process for a period of 6 months, excluding natural settlement and external factors such as destruction or erosion by water flow.

8. Work Milestones and Payment Schedule

The Contractor shall complete all Services within the scope of work in a complete and satisfactory manner in accordance with the approved work schedule, or within one hundred and twenty (120) calendar days from the date following the execution of the Contract, as applicable.

The Company shall make payments to the Contractor in installments (milestone payments) in accordance with the provisions of the Tender Documents or the Draft Contract. Payment shall be made upon the Contractor's successful completion and delivery of each agreed milestone in



accordance with the requirements specified in Section 7, subject to the Company's review and acceptance.

9. Work Inspection

9.1 The supervising engineer or the Employer's representative shall supervise the Contractor's work, including inspection of work methods, detailed records, and the work site under the contract at any time, and the bidder shall provide reasonable convenience and assistance.

9.2 If the Employer's representative or supervising engineer, after reviewing the report, considers that the report content is incomplete, the bidder shall promptly revise the report, or revise it within the specified period, and resubmit the report to the Company for further consideration without any additional charge.



Appendix A) Class 1 Reference Benchmark PBM.2325 of the Royal Thai Survey Department

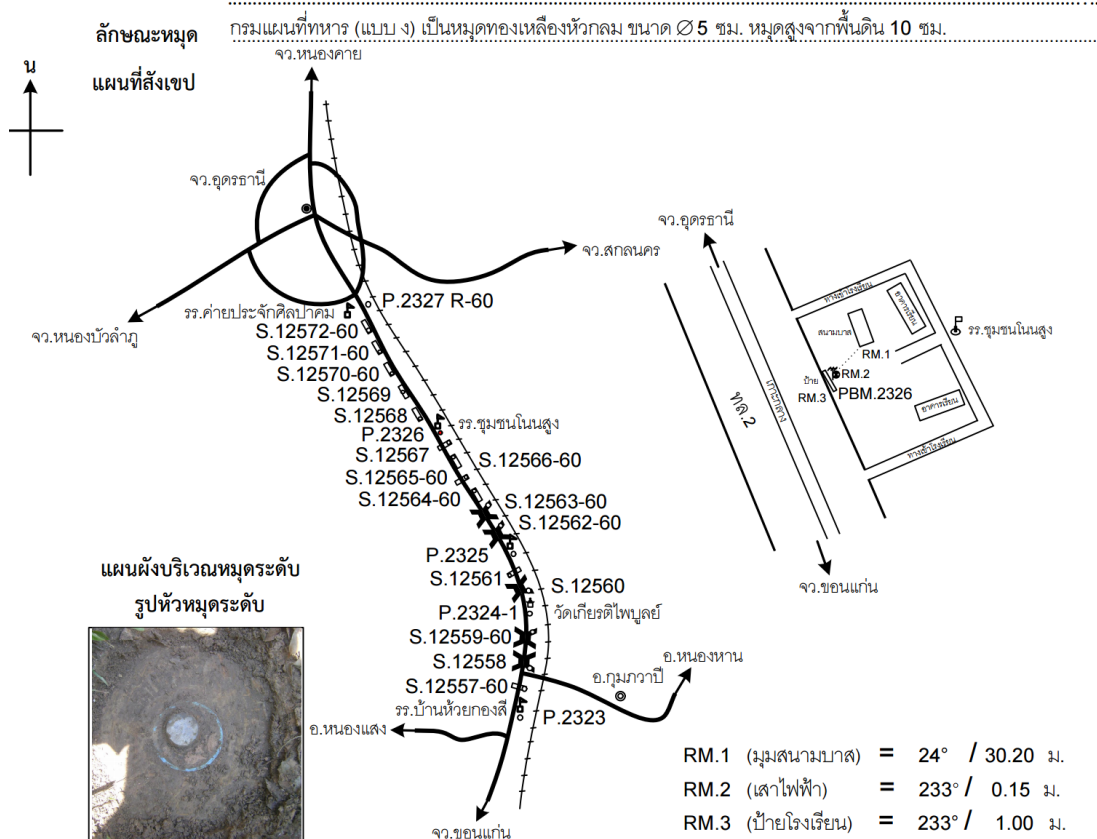
แบบบันทึกข้อมูลหมุดระดับ (Bench Mark : BM)

(Description of BM)

ชื่อ / หมายเลขหมุดระดับ PBM.2326 งานระดับชั้นที่ 1 สำรจปี พ.ศ. 2560
เส้นทาง / สายงานระดับ ที่ 47-1 จาก PBM.2327 R/60 (ร.ค่ายประจักษ์ศิลปาคม อ.เมือง จ.อุดรธานี) ถึง PBM.2323 (ร.บ้านห้วยกองสี อ.กุมภวาปี จ.อุดรธานี)
สถานที่ตั้ง โรงเรียนชุมชนโนนสูง อำเภอ เมือง จังหวัด อุดรธานี
ค่าพิกัดทางราบในแผนที่ L7018 หมายเลขระวาง 5543-I N : 1911831 เมตร ϕ : $17^\circ 16' 49.73''$
UTM ZONE 48Q E : 273813 เมตร λ : $102^\circ 52' 20.17''$
ค่าระดับสูงเหนือระดับน้ำทะเลปานกลาง (Elevation) H : 206.4344 เมตร $\pm$ มม.
MSL

คำบรรยายประกอบหมุดระดับ

เส้นทาง จาก จ.อุดรธานี ไป จ.ขอนแก่น ตาม ทล.2 จะถึงโรงเรียนชุมชนโนนสูง หมุดหล่อฝังไว้ภายในรั้วโรงเรียน หลังป้าย





Appendix B) Reference Benchmarks and Monitoring Benchmarks for Measuring Land Subsidence
of the Udon Thani Potash Mine Project

Type of monument / monument location and coordinates	Location	Coordinates
1.	Royal Thai Survey Department reference benchmark used for tie-in	
1.1 Benchmark No. PBM 2326	Non Sung Community School, Non Sung Subdistrict, Mueang Udon Thani District, Udon Thani Province	
2.	Reference benchmark outside the concession area (Reference Benchmark)	
2.1 RBM01:LSO-01 APPC ref1	-	272891/1912725
2.2 RBM02:LSO-02 APPC ref2	Ban Chiang Krom Intersection	282556/1912671
2.3 RBM03:LSO-03 APPC ref3	Wat Pa Ban Wang Saeng	283553/1907050
2.4 RBM04:LSO-04 APPCEIA ref4	Entrance to Wat Pa Samakkhi Tham	276278/1908145
3	Monitoring benchmark	
3.1	Monitoring benchmark in area expected to have no land subsidence (L0-Checking Benchmark)	
3.1.1 L0BM1-05 APPCEIA	Wat Si Watthanaram, Moo 4, Ban Nong Takai	276569/1910288
3.1.2 L0BM1-06 APPC	Ban Nam Kham, Moo 2	274643/1911638
3.1.3 L0BM1-07 APPC	Ban Nong Takai, Moo 7	276246/1912615
3.1.4 L0BM1-08 APPC	Tailings storage area	278832/1912346
3.1.5 L0BM3-09 APPC	Ban Nong Takai - Chiang Krom Road	280392/1911178
3.1.6 L0BM3-10 APPC	Chiang Krom - Wang Saeng Road (Central Route)	283402/1910611
3.1.7 L0BM4-11 APPC	Chiang Krom - Wang Saeng Road (Central Route)	283234/1909583
3.1.8 L0BM4-12 APPC	Ban Wang Saeng	283349/1908266
3.1.9 L0BM3-13 APPC	Ban I Thui (road to Ban I Thui beside the temple)	279672/1907423
3.1.10 L0BM2-14 APPC	Road along railway underpass (Pu Kham 2)	277618/1908331
3.2	Monitoring benchmark (Checking Benchmark)	
3.2.1 CBMO-15 APPC	Village pavilion, Moo 3, Ban Chaiyaphon	272297/1913589
3.2.2 CBMO-16 APPC	Moo 8, Ban Nong Laem	274355/1912963
3.2.3 CBMO-17 APPC	Phraya Sunthon Thammathada Camp	273643/1912429
3.2.4 CBM1-18 APPC	Moo 9, Ban Pho Chai	273820/1912094
3.2.5 CBM1-19 APPC	Laksuk Kindergarten School, Moo 2, Ban Nam Kham	274451/1911623
3.2.6 CBM1-20 APPCEIA	Non Sung Phitthayakhan School	274794/1911975
3.2.7 CBMO-21 APPC	Yutthasin Prasit Camp (Artillery)	275291/1910569
3.2.8 CBM1-22 APPC	Moo 4, Ban Nong Takai	276391/1910516



	3.2.9	CBM1-23 APPC	Moo 5, Ban Nong Takai Nuea	277131/1911481
	3.2.10	CBM2-24 APPCEIA	Wat Pa Wiwek Wararam, Moo 7, Ban Nong Takai Noi	276539/1909711
	3.2.11	CBM1-25 APPC	Ban Nong Takai Tai, Moo 12	277492/1910776
	3.2.12	CBMO-26 APPC	Wat Sutthikaram, Moo 1, Ban Nong Phai	276006/1908897
	3.2.13	CBM3-27 APPC	Wat Saeng Sawang Thammaram, Moo 4, Ban I Thui	278845/1907944
	3.2.14	CBM2-28 APPCEIA	Wat Chantharam, Moo 9, Ban Pa Kao	278163/1907417
	3.2.15	CBM3-29 APPC*	Ban Non Sombun School	279196/1908164
	3.2.16	CBMO-30 APPC	Moo 9, Ban Non Sai Fong	279865/1911789
	3.2.17	CBMO-31 APPC	Huai Nam Khem area	281219/1907752
	3.2.18	CBM3-32 APPC	Sam Phat Phitthayakhan School	279895/1909405
	3.2.19	CBM3-33 APPC	Non Sombun Subdistrict Health Promoting Hospital, Moo 12, Ban Non Sombun	279676/1909337
	3.2.20	CBM3-34 APPC	Nong Kung area	279457/1908930
	3.2.21	CBM3-35 APPCEIA	Wat Arun Thammarangsi, Moo 3, Ban Non Sombun	279316/1908460
	3.2.22	CBM4-36 APPC	Huai Sam Phat Subdistrict Administrative Organization, Moo 10, Ban Sa-at Namun	280200/1907123
	3.2.23	CBM3-37 APPC	Ban Sangkhom Dharma Practice Center, Moo 11, Ban Sangkhom	279724/1908386
	3.2.24	CBM4-38 APPCEIA	Wat Burapha Wanaram, Moo 6, Ban Wang Khon Kwang	280743/1908621
	3.2.25	CBMO-39 APPC	Ban Khok Sanga, Moo 5	281943/1907126
	3.2.26	CBMO-40 APPC	Ban Nong Ya Ma, Moo 7	285784/1910749
	3.2.27	CBMO-41 APPC	Ban Chiang Krom, Moo 14	281707/1911441
	3.2.28	CBMO-42 APPCEIA	Wat Pa Samakkhi Tham, Moo 11, Ban Na Thong Kham	276974/1908672
	3.2.29	CBM1-43 APPCEIA	Railway before Nong Takai Station	275566/1911211
	3.2.30	CBM1-44 APPCEIA	Nong Takai Railway Station, Moo 7, Ban Nong Takai Noi	276133/1910381
	3.2.31	CBMO-45 APPCEIA	Wat Sirichai Mangkhalaram (Wat Nong Na Charoen)	278891/1913264
	3.2.32	CBMO-46 APPCEIA	Wat Si Bun Rueang, Moo 8, Chiang Krom	283201/1912230
	3.2.33	CBM4-47 APPCEIA	Ban Khok Si Wang Saeng School, Moo 10, Ban Wang Saeng	282905/1907444
	3.2.34	CBMO-48 APPCEIA	Nong Na Tan Public Park	276320/1912836



	3.2.35 CBM1-49 APPCEIA	Nong Takai Subdistrict Health Promoting Hospital	276419/1911250
	3.2.36 CBMO-50 APPCEIA	Wat Wichai Sopharam, Moo 8, Ban Nong Waeng Nuea	278513/1906494
	3.2.37 CBM4-51 APPC	Ban Wang Khon Kwang, Moo 6, Huai Sam Phat Subdistrict	281965/1909806
	3.2.38 CBM2-52 APPC	Ban Non Sombun, Moo 12, Huai Sam Phat Subdistrict	278446/1909988
	3.2.39 CBM4-53 APPC	Ban Khok Sanga, Moo 5, Huai Sam Phat Subdistrict	282322/1908176



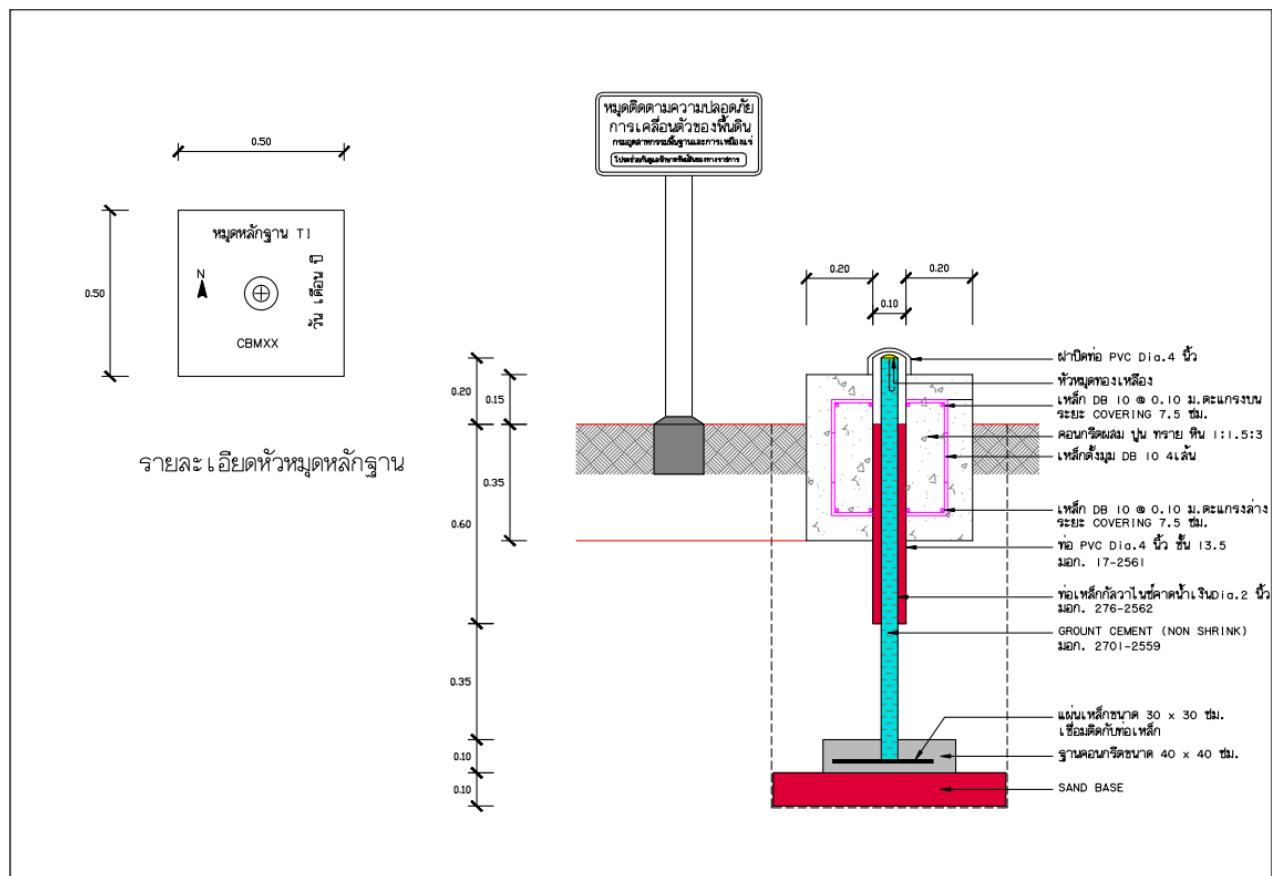
Appendix C – Standard Drawing for the Construction of First-Order Reference Benchmarks (Royal Thai Survey Department Standard)

Additional Requirements for Mine Subsidence Monitoring

(The required foundation depth shall be determined based on the proposal submitted by the Engineering & Technology (E&T) Department to ensure accurate pricing by the Bidder.)



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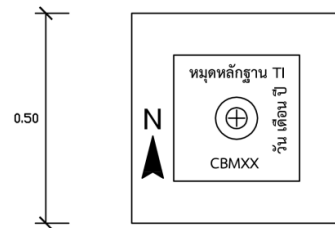




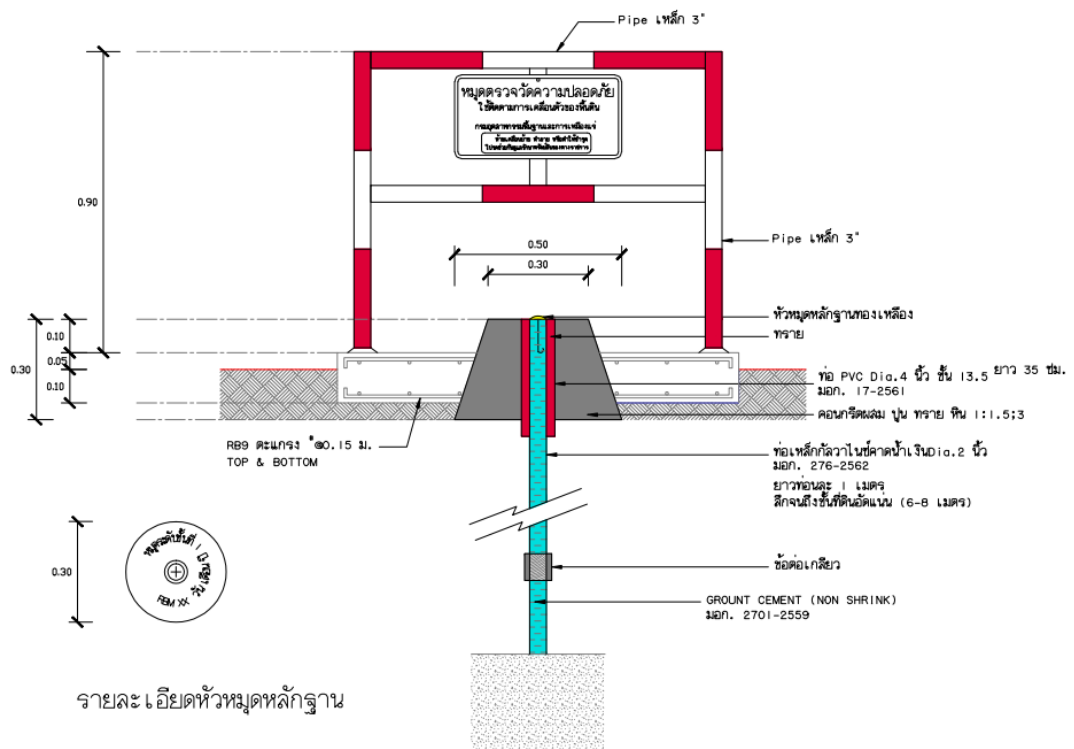
Appendix D – Standard Drawing for the Construction of Land Subsidence Monitoring Benchmarks (TI) (Based on the Royal Thai Survey Department Standard)

Additional Design Requirements for Mine Subsidence Monitoring

Note: The required foundation depth shall be determined in accordance with the recommendation of the Engineering & Technology (E&T) Department to ensure an accurate and consistent basis for bid pricing.



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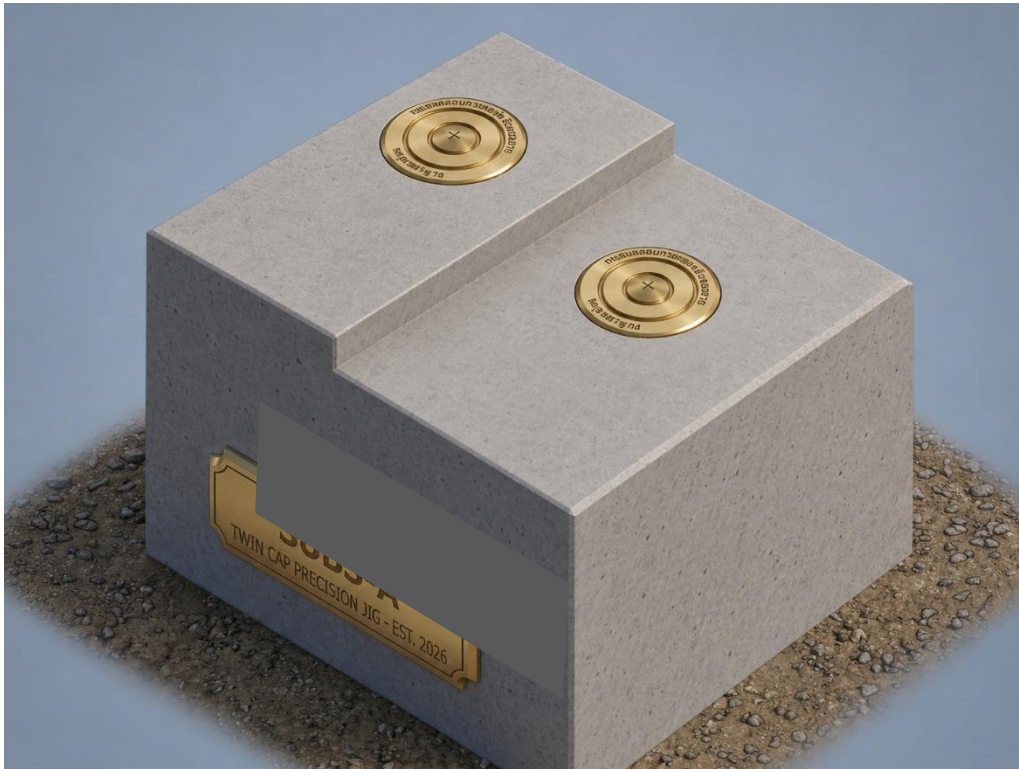
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Appendix E Standard Construction Drawing for Twin-cap Ground Movement Monitoring Monuments

(Horizontal Offset: $\Delta_{hor.} = 50 \text{ mm}$ | Vertical Offset: $\Delta_{vert.} = 100 \text{ mm}$)

Modified from the previously constructed Land Subsidence Monitoring Benchmark (TI) design.

Note: A detailed dimensional sketch shall be provided, including all principal dimensions, construction details, and installation requirements.



(End of TOR – Annex 1)



Annex 2: Response Document Template

Project: Baseline Data Preparation for Land Subsidence (Udon Thani Potash Mine Project)

Supplier Name (Company seal): _____

Authorized Signature: _____

Date: _____ (Day/Month/Year)

To: Asia Pacific Potash Corp., Ltd.

We have carefully studied all the contents of the procurement documents for “Baseline Data Preparation for Land Subsidence, Udon Thani Potash Mine Project” and are willing to complete all the work of this project (based on the TOR) at the price stated in the Quotation Sheet of this Response Document.

1. Quotation Sheet

Quotation Sheet for Baseline Data Collection on Land Subsidence				
Employer's Name: <u>Asia Pacific Potash Corp., Ltd.</u>			Name of the Vendor: _____	
Vender Contact Person:			Tel:	
Serial number	Name of the service	Price including tax	Total price including tax	Remark
1	Benchmark Construction (Level Class 1)			
2	Benchmark Construction (Level Class 2)			
3	Geodetic Surveys			
4	Leveling Surveys			
5	Additional for supply and installation of the CORS unit			
6	Auxiliary & Desktop Deliverables			
....				
Company name of the Vender (seal and sign): 				
Date: Month ,Day, Year				
Note: Detailed cost proposal can be provided in the supplier's format				

Note: A detailed cost breakdown or supporting cost proposal can be provided in the vendor's own



format as an attachment if more space or explanation is needed.

2. Detailed Technical Proposal: (Methodology and Timeline) – Please attach a comprehensive Technical Proposal document as part of this response. The technical proposal should detail the survey methodology, work plan, equipment and technology to be used, quality control measures, timeline, project team composition, and any other relevant information demonstrating how the bidder will successfully implement the project. The methodology should explain how you will carry out the Scope of Work in the TOR (benchmark installation, leveling surveys, data analysis) and how you will meet the technical requirements (accuracy standards, bilingual reporting, safety management, etc.). The timeline should include key milestones, showing that all work will be completed within 120 days from contract signing. Any assumptions or requirements for APPC's support should be stated.

3. Other Required Documents: (to be provided as attachments in the response)

Experience and Qualifications: Documentation of the company's relevant experience, such as summaries of similar projects completed. This should highlight projects involving land subsidence monitoring, geodetic network establishment, or mining-related or major infrastructure surveying in Thailand. Include client references or testimonial letters if available. Also provide qualifications of key personnel (CVs of project manager, chief surveyor, etc., including any professional licenses or certifications).

References for Similar Projects: A list of past projects similar in nature (especially projects establishing baseline geodetic networks or subsidence monitoring for mining or civil projects). For each, include a brief description, date, client, scope, and outcomes. Provide contact information for references (if available) who can verify the work.

Certificate of Company Registration: A copy of the bidder's company registration certificate or business license, and any relevant professional registrations (e.g., surveying license) or DPIM or relevant regulatory authorities recognition documents.

Other Supporting Documents (if any): Any additional materials the bidder wishes to include to support the proposal. This may include the company's safety policy or safety record, quality management system certificates (e.g., ISO 9001), awards or commendations, or any other information that can strengthen the bid.

(End of Response Document Template – Annex 2)



Asia Pacific Potash Co., Ltd Udon Thani Potash Mine Baseline Data Preparation for Land Subsidence Service Project

Contract

(No.: APPC-HSE-S-2026-00?)

Party A: Asia Pacific Potash Corporation Limited

Party B:



Service Agreement

Commencement Date: 25th September 2025

Party A: Asia Pacific Potash Corporation Limited

Domicile: 2034/159 Italthai Tower, 42nd Fl., Suite 159, New Petchburi Rd., Bangkok, Huaykwang, Bangkok 10310, Thailand

Tel: +66-2-716-0297-8

Fax: +66-2-716-0541

Legal Representative: Mr. Mobai Yao

Party B:

Domicile:

Legal Representative:

Party A is an enterprise established and existing under the laws of the Kingdom of Thailand. Due to business requirements, Party A intends to engage a legal entity or other organization with corresponding qualifications and capabilities to provide services.

Party B is a company established and existing under the laws of the Kingdom of Thailand. Party B has the legal qualifications to render and complete the services entrusted by Party A and is willing and able to accept Party A's engagement and provide services as required by Party A.

Party A, through a Public Inquiry and Comparison process, has confirmed Party B as the service provider for Party A's "Asia Pacific Potash Co., Ltd Udon Thani Potash Mine Baseline Data Preparation for Land Subsidence Service Project" (hereinafter the "Land Subsidence"). For this purpose, in accordance with the relevant provisions of the Civil and Commercial Code of the Kingdom of Thailand and taking into account the Concession Agreement and its applicable laws, Party A and Party B, on the basis of equality and mutual benefit and through friendly consultations, have reached the following agreement regarding Party A engaging Party B to carry out the Land Subsidence Work:

Article 01. Subject Matter, Quantity, Price and Delivery Time

The detailed scope of services (subject matter), quantity, and price are shown in the attached Contract Item List (see Annex 1, TOR). The Party B shall complete delivery of all services and deliverables under this Contract within 120 days from the date of signing this Contract. The total contract price including tax is THB [], and the total price excluding tax is THB []. This price is a firm fixed price for the complete scope as per the TOR, subject to any adjustments agreed through formal contract amendments.



Article 02. Quality Standard

The services provided under this Contract shall meet high quality standards – all survey work and deliverables must be accurate, complete, and in full compliance with the technical requirements stated in the TOR and this Contract. If a specific technical standard or quality agreement is attached to this Contract (e.g., detailed technical specifications or regulatory standards), the Party B's work must conform to those requirements. In case of any conflict between general standards and the specific requirements of this project, the stricter standard or the one ensuring higher accuracy shall apply, unless otherwise agreed in writing.

Article 03. Party B's Responsibilities for Quality and Warranty Period

The Party B is fully responsible for the quality of all work and deliverables provided. The quality assurance (warranty) period is 6 months from the date the Party A issues final acceptance of all deliverables. If any quality issues arise during this period (e.g., errors in data, inaccuracies in the survey results, or physical issues with installed benchmarks such as instability), the Party B shall promptly take corrective action at its own expense. If any deliverable is found to be non-conforming to the Contract requirements due to the Party B's fault, the following provisions apply:

The Party B shall, within [] days of receiving the Party A's written notice, provide corrections, re-survey work, or replace any defective deliverables to meet the required standards.

After correction or replacement of any deliverable, the Party B shall cooperate with the Party A to verify the corrected work. The Party B shall bear all costs and liabilities associated with such correction or replacement, including any re-inspection or re-testing required by the Party A or regulators.

The Party A will evaluate the Party B's performance in line with APPC's Party B assessment procedures. If the Party B is rated as an unqualified or unsatisfactory supplier (for example, due to poor quality or safety performance), the Party B may be disqualified from participating in the Party A's future procurements for a period of two years.

Article 04. Transfer of Ownership

Ownership of all deliverables and work products under this Contract shall transfer to the Party A upon the Party A's final acceptance of the deliverables. This includes, but is not limited to, all survey data, reports, maps, and other documentation, as well as any physical installations (benchmark monuments) constructed or placed as part of the project. Until acceptance, all work outputs, materials, and installations remain at the Party B's risk; any loss or damage to them before acceptance shall be borne by the Party B. After acceptance, the maintenance of physical benchmarks



will become the responsibility of the Party A (or as per the agreed monitoring plan), but the Party B remains responsible for any defects in the benchmarks as per the warranty clause above.

Article 05. Delivery Method and Location

The deliverable documents (reports, data files, etc.) shall be delivered in both electronic and hard copy form. The Party B shall deliver two (2) hard copies of the final Land Subsidence Report (in Thai and English, 2 copies of each language) along with digital copies of all deliverables (on a USB drive or via email/secure file transfer) to the Party A's designated office address. The designated delivery location is APPC's office in Udon Thani (or another location specified by the Party A in writing before contract signing). The delivery will be deemed completed when (a) all required documents and data have been received by the Party A in the specified formats and quantities, and (b) all physical benchmarks have been installed and a joint inspection with the Party A has been conducted (if the Party A chooses to inspect). The Party B shall provide a transmittal letter itemizing all deliverables upon delivery. Electronic delivery of preliminary drafts should be made to the Party A's email address as work progresses, but final acceptance is contingent on the delivery of the agreed final versions as stated.

Article 6. Acceptance Standards, Method, Place and Time frame

The Party A will perform acceptance of the services and deliverables in accordance with the standards outlined in the TOR and this Contract. Acceptance will involve verifying that: all benchmarks have been properly established as per specifications, all required data and reports have been delivered, and the quality of the deliverables meets the contractual requirements. The acceptance process will take place at two levels: (a) Field verification and (b) Document review. For field verification, the Party A (or its appointed representative) may visit a sample of the installed benchmark sites to confirm they are built and marked as specified. For document review, the Party A will review the submitted reports and data for completeness and correctness. The primary place for document acceptance will be the Party A's office (Udon Thani or Bangkok as designated), and field acceptance will occur on-site at the project area.

Acceptance time frame: The Party A shall endeavor to complete the acceptance review within 30 days of the Party B's notice of completion and submission of all deliverables. If the Party A finds that the deliverables (or any portion thereof) do not conform to the Contract requirements – for example, missing data, calculations errors, sections of the report not as per TOR, or any benchmarks not meeting specifications – the Party A will notify the Party B in writing (e.g., via official email) with details of the deficiencies. The Party B shall then address and correct all such issues within 14 days after receiving the Party A's notice (or within another period mutually agreed, considering the nature of the corrections). Corrections could include re-surveying certain points, revising the report, or fixing identification plates on benchmarks, etc., as applicable. If the Party B fails to resolve the issues within the agreed timeframe, the Party A reserves the right to accept the work with deductions



or to consider it a breach (as addressed in Article 12 and 13) depending on the severity of the non-conformance.

Once all deliverables meet the acceptance criteria, the Party A will issue a Certificate of Final Acceptance (or an acceptance memo) to the Party B in writing, which marks the official acceptance date. The warranty period mentioned in Article 03 begins from this acceptance date.

Article 7. Settlement Method, Time and Place

The Party A shall pay the Party B the contract price in installments according to the following five-stage payment schedule, subject to the Party B's submission of valid tax invoices and all required supporting documents:

1. Initial Payment (Advance Payment) – 20% of the Total Contract Price: This shall be paid within 15 days of contract signing and upon the Party A's receipt of a valid invoice and (if required by the Party A) an advance payment guarantee of an equivalent amount from the Party B's bank. This advance is provided to facilitate the Party B's mobilization and initial setup costs.
2. First Interim Progress Payment – 20% of the Total Contract Price: This shall be paid upon the successful completion of the construction and installation of all fifty-three (53) benchmarks, and subject to passing the initial on-site inspection conducted and approved by the Party A.
3. Second Interim Progress Payment (Year 2026 Deliverables) – 57% of the Total Contract Price: This shall be paid upon the successful completion of the Year 2026 Class 1 and Class 2 leveling surveys, the full delivery of all associated desktop study and laboratory/office analysis results for 2026, and the successful completion of the preliminary review of such data by DPIM along with the Party A's interim acceptance.
4. Retention Money – 3% of the Total Contract Price: The remaining three percent (3%) of the total contract price shall be withheld by the Party A as retention money (warranty bond) to guarantee performance during the Defect Liability Period (Warranty Period). This retention money shall be released and returned to the Party B without interest upon the expiration of a six (6) month warranty period, provided that all warranty obligations have been fully satisfied.

All payments will be made by bank transfer to the Party B's designated bank account. The Party B's banking details (bank name, account number, etc.) shall be provided in the Party B's invoice or as an appendix to this Contract. Payments are inclusive of any applicable taxes (withholding tax, VAT, etc.) as per Thai law; the Party A will deduct or add taxes as required by law (for example, deducting withholding tax from payments and providing the tax certificate to the Party B). The place of payment is deemed to be the bank of the Party B – once the Party A remits the funds via bank



transfer, the payment obligation is fulfilled. The Party B is responsible for any bank fees on its side, and the Party A for any fees on its side.

Party B's account information is as follows:

Opening Bank:

Name of Account:

Account Number:

Article 8. Conditions for Contract Termination

The Party A (Party A) may terminate this Contract under any of the following circumstances by giving a written Notice of Termination to the Party B (termination becomes effective when such notice is delivered to the Party B), and the consequences of termination will be as described below and in Article 9.

Excessive Delay: If the Party B has failed to deliver the required services and final deliverables within 30 days after the agreed completion date (as per the timeline in this Contract), thereby materially delaying the project and its objectives.

Failure to Remedy Defects: If the Party B, when notified of significant deficiencies or non-compliance in the work (per the acceptance criteria or any other contract requirement), refuses or fails to correct the work to meet contractual standards within 30 days of receiving a written notice specifying the deficiencies.

Serious Breach or Misconduct: If the Party B engages in any conduct that is a serious breach of this Contract, including but not limited to: a willful violation of safety standards resulting in serious incident, a breach of confidentiality or regulatory compliance, involvement in corrupt or fraudulent practices (see Article 11 and Anti-Corruption clause), or any other action that significantly impairs the Party A's operations or the purpose of the project.

Non-Conforming Deliverables: If the deliverables, upon final due date, do not meet the essential technical requirements of this Contract or the TOR, and the Party B does not provide corrected deliverables that meet the requirements within 30 days after receiving a notice from the Party A specifying the failure (this may overlap with the failure to remedy defects cause above).

If the Contract is terminated pursuant to this Article 8, the following will apply: The Party A will pay the Party B for any portion of the work that has been satisfactorily completed and accepted up to the effective termination date (if such portion is separable and of value to the Party A) minus any deductions for damages or penalties applicable under this Contract. The Party B shall refund any advance payments for work not performed or any payments made for deliverables that were not accepted. The Party A's right to terminate is in addition to any other remedies available under this Contract or at law.



Article 9. Liability for Breach of Contract

If the Party B fails to deliver the services (e.g., complete the surveys and reports) according to the agreed schedule (except in cases of force majeure duly notified or delays solely caused by the Party A), the Party B shall pay the Party A liquidated damages at the rate of 0.5 % of the total contract amount for each day of delay beyond the final delivery deadline. (For the purpose of calculating liquidated damages, any part of a calendar day of delay shall be considered a full day.)

If any deliverables are found to be non-compliant with the Contract due to the Party B's reasons (including quality issues requiring significant rework or data that does not meet the accuracy requirements), and this causes the Party A to reject the deliverables or necessitates substantial replacements/rework, the Party B shall pay the Party A liquidated damages of 50% of the total contract price for the affected portion of work.

If the Party A terminates the Contract in accordance with Article 8 (due to the Party B's breach or failure to perform), the Party B shall pay the Party A liquidated damages of 50% of the total contract price as compensation for the breach. This compensation is in addition to any requirement to refund payments for unaccepted work and any other remedies the Party A may seek (such as calling on performance securities).

The parties agree that the liquidated damages set out above are a genuine pre-estimate of the losses likely to be suffered by the Party A in the event of the Party B's delay or breach, and are not a penalty. The Party A may deduct any accrued liquidated damages from payments due to the Party B under this Contract.

Article 10. Settlement of Contract Disputes

Any dispute arising out of or in connection with the performance of this Contract shall first be resolved through amicable negotiation between the parties. In the event that such negotiations do not result in a resolution within a reasonable time (for instance, 30 days from the date one party officially notifies the other of the dispute in writing), either party may refer the dispute to the competent court in the jurisdiction where this Contract was signed (the courts of Thailand, unless otherwise specified in this Contract) for adjudication. Both parties agree to submit to the jurisdiction of such court. The judgment of the court shall be final and binding to the extent no appeal is taken (or after all rights of appeal are exhausted).

The costs of dispute resolution, including court fees and reasonable attorney's fees, shall be borne by the party that the court finds to be in breach or at fault. If both parties share fault, the costs may be apportioned by the court in accordance with the degree of fault of each party as determined in the legal proceedings.



Article 11. Other Agreed Matters:

The amount of the performance bond of the Contract is of the signed Contract Price 5% in the form of bank guarantee or cash. Party B shall submit the performance bond to Party A on the date of execution of this Agreement.

The performance guarantee shall comply with Party A's required format for performance security. The performance bond shall be issued in the currency of this Contract by a bank approved by Party A, and shall be an unconditional, irrevocable, and valid bank guarantee with waiver of the right of recourse.

Party A may deduct from the performance bond only amounts corresponding to undisputed or finally determined breaches of this Agreement, and any disputed portion shall remain subject to resolution under Article 10.

For cash guarantee, Party B shall transfer the deposit to Party A's account. After the expiration of the performance guarantee period, Party A shall return the deposit to Party B without interest after deducting the relevant liquidated damages or damages in accordance with the Contract.

If submitted in the form of a cash guarantee, the transfer remark shall state: "Performance Bond for Asia Pacific Potash Corp., Ltd. - Udon South Potash Mine Baseline Data Collection on Land Subsidence Service Project." Upon completion of the transfer, the transfer voucher shall be promptly sent to the designated contact person's email address.

If it is submitted in cash, Party B shall make corporate transfer to the following account of Party A:

Account name: [Asia Pacific Potash Corporation Limited]

Account: [1010371186]

Bank of deposit: [Industrial and Commercial Bank of China (Thai) Public Company Limited]

Bank's Swift Code: [ICBKTHBKXXX]

Beneficiary Bank's address: L, 11th -13th Floors, Emporium Tower, 622 Sukhumvit Road, Klongton, Klongtoei, Bangkok 10110, Thailand

Tax ID: 0105527034316

Party B shall be solely responsible for the expenses required for obtaining the performance guarantee.

The Performance Guarantee shall become effective as of the effective date of this Agreement and shall remain in full force and effect until the Services are completed and the Final Report is accepted or deemed accepted.



Upon acceptance or deemed acceptance of the Final Report and the completion of all contractually agreed deliverables, Party A shall release and return the Performance Guarantee to Party B within twenty-eight (28) days.

For the purpose of releasing the Performance Guarantee, Party B's obligations shall be deemed fully performed if Party A fails to issue a written notice specifying any substantial non-performance within the review period stipulated in the Contract.

If the performance security is provided in the form of cash, it shall be refunded in full without deductions, except for any amounts due and payable as determined in accordance with the law.

If the bank guarantee submitted by Party B has a valid period, and Party B is unable to fulfill its contractual obligations before the expiration of the valid period, Party B shall replace the performance guarantee 28 days before the expiration of the valid period, and the relevant expenses have been included in the total Contract Price.

Invoicing and Taxation: The Party B shall provide the Party A with all necessary payment documents as required by the Party A to process payments. Specifically, for each payment, the Party B must issue a valid tax invoice (or equivalent official receipt) in compliance with Thai tax laws. Invoices should clearly reference the Contract number and the milestone or deliverable for which payment is requested. The Party B shall deliver invoices to the Party A's designated billing contact either by mail or in person. (Note: Payment documents should not be enclosed with deliverables to ensure they are properly directed to the finance department.) If there are changes in tax laws (such as VAT rate changes) during the execution of the Contract, the contract price may be adjusted solely to reflect the change in applicable tax, unless the price is specified as inclusive of VAT and the parties agree otherwise. The net-of-tax price shall remain fixed; only the tax component may change in accordance with law.

Contract Documents and Precedence: If technical standards, detailed specifications, or other requirements are attached to this Contract (for example, the TOR in Annex 1, or a detailed Scope of Work document, etc.), those attached documents are deemed an integral part of this Contract and carry the same legal force as the main body of the Contract. In case of any discrepancy or inconsistency between the attachments and the main body of this Contract, the interpretation shall be that which best achieves the intent of the Contract, or as mutually agreed in writing by the parties. Generally, the order of precedence (unless otherwise stated) will be: (i) the main body of this Contract and any signed Amendments, (ii) Annex 1: TOR, (iii) other Annexes or attachments, (iv) the Party B's Proposal (to the extent it does not conflict with the former).

On-site Safety and Regulations: If the Party B's personnel are required to visit or work at the Party A's site (including APPC's offices, the mine site, or any related facility) in connection with this Contract, those personnel shall strictly comply with all of the Party A's on-site safety, health, and



environmental regulations. The Party B is responsible for informing its employees and subcontractors of APPC's HSE rules and ensuring adherence (e.g., requiring participation in any safety inductions prior to site work, abiding by all signage and instructions, using required personal protective equipment, etc.). Any incident, accident, or compliance violation occurring on site due to the actions of the Party B's staff will be the sole responsibility of the Party B, and appropriate measures (including removal of offending personnel or other remedies) must be taken by the Party B. Serious or repeated safety violations will be considered a breach of contract.

Article 12 – Option for Contract Renewal

If the cooperation between Party A and Party B in the Land Subsidence Work of 2026 proceeds smoothly and both parties are satisfied with the performance and outcomes of the Land Subsidence Work, Party A and Party B may, on a voluntary and equal basis, negotiate to renew the contract for the year 2027 — Land Subsidence Monitoring Services for Udon South Potash Mine (2027). The renewal may refer to the price level and scope of services of the 2026 contract, subject to mutual consent and written agreement between both parties.

Article 13. Notices and Service of Process

Any notices, demands, or communications required or permitted to be given under this Contract shall be in writing and shall be deemed properly given when delivered to the respective contact addresses of the parties as set forth below. For purposes of legal notices or service of process, the designated contacts are:

Party B (Party B):

Mailing Address: []
Postal Code: []
Telephone: []
Contact Person: []
Official Email Address: []

Party A (Party A – APPC):

Mailing Address: []
Postal Code: []
Telephone: []
Contact Person: []
Official Email Address: []

Either party may change its contact information (address, contact person, or email) by giving written notice to the other party; such change will be effective upon receipt of the notice by the other party.



Notices or communications under this Contract will be effective: if delivered by hand or courier, on the date of confirmed delivery; if sent by registered mail, on the 5th business day after posting; if sent by official email, on the date the email enters the recipient's mail server without bounce-back. The above addresses are also to be used for service of court process (summons, pleadings, etc.) in the event of litigation, unless updated addresses are provided.

If a party fails to notify the other party of an address change and a notice is sent to the last known address, the notice will still be deemed valid and received.

Force Majeure: If performance of this Contract is affected by an event of Force Majeure (such as natural disasters, war, civil disturbance, acts of government, epidemics, or other unforeseeable, unavoidable, and insurmountable events beyond the control of the affected party), the affected party shall notify the other party in writing within 5 days of the occurrence of such event, detailing the nature of the force majeure and its expected impact on the performance of obligations. The affected party shall provide appropriate evidence of the force majeure event within a reasonable time. Both parties shall consult in good faith to find an equitable solution and mitigate the impact of the event. The obligations of the affected party will be suspended to the extent and for the duration that they are affected by the force majeure. The affected party shall make all reasonable efforts to resume performance as soon as practicable after the force majeure event ceases. Neither party shall be held liable for breach of contract to the extent that non-performance is due to a force majeure event, provided that the required notice has been given and mitigation efforts made. If the force majeure situation continues for an extended period (e.g., more than 60 days) rendering the contract largely unfulfillable, the parties will discuss possible contract modification or termination without fault.

Anti-Corruption and Business Ethics: Both parties affirm that they shall strictly abide by applicable anti-corruption and anti-bribery laws and regulations (including those of Thailand and any other relevant jurisdictions). Neither party shall, directly or indirectly, offer, give, solicit or accept any undue financial or other advantage in relation to the awarding or execution of this Contract. Any personnel or representatives of either party caught engaging in such practices (for example, offering bribes or kickbacks to influence the contract award or contract execution) shall be subject to disciplinary action and possibly legal prosecution. If any such corrupt activity is found to have taken place in connection with this Contract, the non-offending party has the right to immediately terminate the Contract for breach. Each party shall promptly notify the other if any improper solicitation, gift, or offer of bribery is made by its own personnel or if it becomes aware of such acts by the other party's personnel. The parties agree to maintain transparency and integrity throughout the performance of this Contract. They designate the following email address for confidential reporting of any unethical behavior: [_____]. Any violation of this clause by the Party B shall entitle the Party A to claim compensation for losses and may result in the Party B being blacklisted from future opportunities. Any violation by the Party A's staff will be dealt with internally and in accordance with law.

Trade Compliance: Both parties acknowledge their compliance with all applicable trade sanctions,



export control laws, and regulations. The Party B confirms that entering into and performing this Contract does not violate any sanctions or export restrictions imposed by, but not limited to, the United Nations, United States, European Union, or Thailand. If any materials, equipment, or technology to be used or transferred under this Contract are subject to export control, the Party B shall obtain all necessary export licenses or approvals before transferring such items. Should any change in law or regulation render the performance of this Contract in violation of trade sanctions or export controls, the affected obligation shall be suspended and the parties will consult to modify the Contract to the extent necessary to comply with such laws. Any losses incurred by one party due to the other party's violation of this clause shall be borne by the violating party.

This Contract shall become effective upon being signed by authorized representatives of both parties (and stamped with official company seals, if applicable). This Contract is executed in two original copies (or [number] copies if more are needed), each of which is equally valid. The Party A and the Party B each retain one original signed copy.

Any matters not expressly provided for in this Contract shall be resolved by the parties through friendly consultation. Any amendment or supplement to this Contract must be made in writing and signed by authorized representatives of both parties; such amendments or addenda will have the same legal effect as this Contract.

(No text below this line)



ASIA PACIFIC POTASH CORPORATION LIMITED

Attachments to the Contract: Attachment 1 – Contract Item List (Deliverables and Pricing Details)

Bill of Quantity

Item	Description of Works	Qty	Unit	Unit Price (THB)	Total Amount (THB)	Specifications / Remarks
1	Benchmark Construction					
1.1	Class 1 Reference Benchmark Construction	4	Point			1.0*1.0m reinforced concrete base to RTSD Class 1 standard (425 Portland cement, APPC identification plate, weather-resistant metal nameplate, protective fencing, or other designs meeting DPIM requirements)
1.2	Class 2 Monitoring Benchmark Construction	49	Point			RTSD TI (Test Indicator) standard (425 Portland cement, APPC identification plate, weather-resistant metal nameplate, protective sign, or other designs meeting DPIM requirements)
1.3	Twin-cap Monitoring Benchmarks	4	Set			Twin-cap benchmark modification, Stainless steel twin-cap assembly
2	Geodetic & Leveling Surveys					
2.1	Precise Orthometric Levelling Survey					
2.1.1	Class 1 Precision Leveling Survey	50	Km			Conduct First-order leveling meeting DPIM/RTSD standards.
2.1.2	Class 2 Standard Leveling Survey	70	Km			Conduct Second-order leveling connecting monitoring points to Class 1 benchmarks.
2.2	GNSS 3D Static Survey & Post-Processing	53	Point			High-precision static observations covering all 53 benchmarks
2.2.1	Mobilization of High- Precision Equipment &	31	session			Includes transportation of GNSS receivers, digital levels, field logistics, PPE, and GNSS survey



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	Survey					
2.2.2	Data Processing, Subsidence Analysis & Congruency analysis	1				Baseline survey report in English & Thai, network adjustments, and subsidence analysis plan
2.2.3	Technical Support for DPIM Review & Approval	1				Assisting the Client in reporting, coordinating, and securing approval from DPIM
3	Auxiliary & Desktop Deliverables					
	Sub-Total					
	VAT (7%)					
	Grand Total					

* Note: The above is an example format. The actual Contract Item List will detail the final agreed deliverables, quantities (if broken down), and prices as finalized during contract award. The Total contract price indicated will be inclusive of VAT and shall not exceed the approved budget (THB 3,800,000).



ASIA PACIFIC POTASH CORPORATION LIMITED

Party B: [Party B's Company Name]

Authorized Representative of Party B: (Signature) _____

Name: [_____]

Title: [_____]

Date (Party B's Signature): _____ (DD/MM/YYYY)

Party A: Asia Pacific Potash Corp., Ltd.

Authorized Representative of Party A: (Signature) _____

Name: [_____]

Title: [_____]

Date (Party B's Signature): _____ (DD/MM/YYYY)

(End of Draft Contract Template – Annex 3)