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The Companies Acts 1985 to 1989

PRIVATE COMPANY LIMITED BY SHARES

MEMORANDUM AND ARTICLES OF ASSOCIATION

LAND & MINERAL SURVEY SERVICES LIMITED

Incorporated on 26 February 1996



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THE COMPANIES ACTS 1985 to 1989

PRIVATE COMPANY LIMITED BY SHARES

MEMORANDUM OF ASSOCIATION OF

LAND & MINERAL SURVEY SERVICES LIMITED

1. *The name of the Company is "LAND & MINERAL SURVEY SERVICES LIMITED".
2. The Company's registered office is to be situated in Scotland.
3. The objects for which the Company is established are:-

(A) To carry on in Scotland and elsewhere all or any of the businesses of a geological surveying company in all its branches; to act as geological surveyors, quantity surveyors, civil engineers, consultants and advisors in relation to land surveys, hydrographic surveys, soil investigations, site exploration, soil and material testing, ground boring, feasibility studies, design and detailing of buildings and foundations, construction of all or any foundations and pile foundations including excavations in all its branches; consultants and contractors in geodetic, geophysical, topographical and hydrographic surveys to the offshore and onshore, oil, gas and mineral exploration, production and exploitation industries; to provide geological, geophysical and allied services whether as field services, engineering services or laboratory and research services together with all necessary associated activities including survey work, mapping, drilling, mining and exploration together with the quarrying and extraction of coal, minerals, metals and all other kinds of ores, rocks or geological deposits on land or on the sea bed and to treat, use, refine and market the same including any by-products thereof; to advise upon the ownership of mineral rights, deposits and all allied formations and to provide all necessary supporting research and consultancy services in all their branches and to provide services of all kinds which may be required, directly or indirectly, in connection with the foregoing; to buy, sell and deal in articles and things of all kinds necessary or useful for the purposes of the aforementioned businesses, or any of them, or which may seem capable of being profitably dealt with in connection with any of such businesses or likely to be required by customers of or persons having dealings with the Company.

* By Special Resolution the name of the Company was changed from "L. & M. GEOLOGICAL SURVEYS LIMITED" to "LAND & MINERAL SURVEY SERVICES LIMITED" on 7 July 1999.

(B) To carry on any other trade or business which may seem to the Company capable of being conveniently carried on in connection with the objects specified in Sub-Clause (A) hereof or calculated directly or indirectly to enhance the value of or render profitable any of the property or rights of the Company.

(C) To purchase, take on lease or in exchange, hire or otherwise acquire and hold for any estate or interest any lands, buildings, easements, rights, privileges, concessions, patents, patent rights, licences, secret processes, machinery, plant, stock-in-trade and any real or personal property of any kind necessary or convenient for the purposes of or in connection with the Company's business or any branch or department thereof.

(D) To borrow or raise or secure the payment of money in such manner as the Company shall think fit for the purpose of or in connection with the Company's business, and for the purposes of or in connection with the borrowing or raising of money by the Company to become a member of any building society.

(E) For the purposes of or in connection with the business of the Company to mortgage and charge the undertaking and all or any of the real and personal property and assets, present and future, and all or any of the uncalled capital for the time being of the Company, and to issue at par or at a premium or discount and for such consideration and with and subject to such rights, powers, privileges and conditions as may be thought fit, debentures or debenture stock, either permanent or redeemable or repayable, and collaterally or further to secure any securities of the Company by a trust deed or other assurance. To issue and deposit any securities which the Company has power to issue by way of mortgage to secure any sum less than the nominal amount of such securities and also by way of security for the performance of any contracts or obligations of the Company or of its customers or other persons or corporations having dealings with the Company, or in whose businesses or undertakings the Company is interested, whether directly or indirectly.

(F) To give indemnity for, or to guarantee, support or secure the performance of all or any of the obligations of any person or company whether by personal covenant or by mortgage, charge or lien on the whole or any part of the undertaking, property and assets of the Company both present and future including its uncalled capital or by all or any of such methods; and in particular, but without limiting the generality of the foregoing, to give indemnity for, or to guarantee, support or secure whether by personal covenant or by any such mortgage, charge, or lien, or by all or any of such methods, the performance of all or any of the obligations (including the repayment or payment of the principal and premium of and interest on, any securities) of any company which is for the time being the Company's Holding or Subsidiary company as defined by Section 736 of the Companies Act 1985 or otherwise associated with the Company in business.

(G) To receive money on deposit or loan upon such terms as the Company may approve and to guarantee the obligations and contracts of any person or corporation.

(H) To apply for, purchase or otherwise acquire and hold, use, develop, sell, licence or otherwise dispose of or deal with patents, copyrights, designs, trade marks, brevets d'invention and concessions and the like and any interest therein.

(I) To draw, make, accept, endorse, negotiate, discount and execute promissory notes, bills of exchange and other negotiable instruments.

(J) To invest and deal with the monies of the Company not immediately required for the purposes of its business or securities in or upon such investments and in such manner as may from time to time be determined.

(K) To form, promote, finance or assist any other company whether for the purpose of acquiring all or any of the undertaking, property and assets of the Company or for any other purpose which may be considered expedient.

(L) To sell, improve, manage, develop, turn to account, exchange, let on rent, grant royalty, share of profits or otherwise, grant licences, easements and other rights in or over and in any other manner deal with or dispose of the undertakings and all or any of the property and assets for the time being of the Company for such consideration as the Company may think fit.

(M) To subscribe for, purchase or otherwise acquire and hold shares, stock, debentures or other securities of any other company.

(N) To establish and maintain or procure the establishment and maintenance of any non-contributory or contributory pension or superannuation or funds for the benefit of, and give or procure the giving of donations, gratuities, pensions, allowances or emoluments to any persons who are or were at any time in the employment or service of the Company, or of any company which is for the time being the Company's Holding or Subsidiary Company as defined by Section 736 of the Companies Act 1985, or otherwise associated with the Company in business or who are or were at any time Directors or officers of the Company or of any such other company as aforesaid, and the wives, widows, families and dependents of any such persons, and also to establish and subsidise or subscribe to any institutions, associations, clubs or funds calculated to be for the benefit of or to advance the interests and well-being of the Company or any such other company as aforesaid, or of any such persons as aforesaid, and to make payments for or towards the insurance of any such persons as aforesaid, and to subscribe or guarantee money for charitable or benevolent objects or for any exhibition or for any public, general or useful objects and to do any of the matters aforesaid either alone or in conjunction with any such other company as aforesaid.

(O) To pay for any property or rights acquired by the Company, either in cash or fully or partly paid-up shares, with or without preferred or deferred or special rights or restrictions in respect of dividend, repayment of capital, voting or otherwise, or by any securities which the Company has power to issue, or partly in one mode and partly in another, and generally on such terms as the Company may determine.

(P) To accept payment for any property or rights sold or otherwise disposed of or dealt with by the Company either in cash, by instalments or otherwise, or in fully or partly paid-up shares of any company or corporation, with or without deferred or preferred or special rights or restrictions in respect of dividend, repayment of capital, voting or otherwise, or in debentures or mortgage debentures or debenture stock, mortgages or other securities of any company or corporation or partly in one mode and partly in another, and generally on such terms as the Company may determine, and to hold, dispose of or otherwise deal with any shares, stock or securities so acquired.

(Q) To enter into any partnership or arrangement for sharing profits, union of interests, reciprocal concession or co-operation with any company, firm or person carrying on or proposing to carry on any business within the objects of this Company or which is capable of being carried on so as directly or indirectly to benefit this Company, and to acquire and hold, sell, deal with or dispose of any shares, stock or securities of or other interests in any such company, and to guarantee the contracts or liabilities of, subsidise or otherwise assist, any such company.

(R) To acquire, purchase, take over and undertake part or all of the business, property, assets and liabilities and transactions of any firm, person or company carrying on any business which this Company is authorised to carry on or which can be carried on in conjunction therewith or is capable of being conducted so as directly or indirectly to benefit the Company or to advance its interests generally.

(S) To distribute among the members in specie any property of the Company or any proceeds of sale or disposal of any property of the Company but so that no distribution amounting to a reduction of capital be made except with the sanction (if any) for the time being required by law.

(T) Subject to and in accordance with a due compliance with the provisions of Sections 155 to 158 (inclusive) of the Act (if and so far as such provisions shall be applicable) to give, whether directly or indirectly, any kind of financial assistance (as defined in Section 152 (1) (a) of the Act) for any such purpose as is specified in Section 151 (1) and/or Section 151 (2) of the Act.

(U) To do all or any of the above things in any part of the world either alone or in conjunction with others and either as principals, agents, contractors, trustees or otherwise and either by or through agents, contractors, trustees or otherwise.

And it is hereby declared that, save as otherwise expressly provided, each of the paragraphs of this Clause shall be regarded as specifying separate and independent objects and accordingly shall not be in anywise limited by reference to or inference from any other paragraph or the name of the Company and the provisions of each such paragraph shall, save as aforesaid, be carried out in as full and ample a manner and construed in as wide a sense as if each of the paragraphs defined the objects of a separate and distinct company.

4. The liability of the members is limited.
5. The share capital of the Company is £100,000 divided into 100,000 shares of £1 each.

WE, the several persons whose name and address are subscribed, are desirous of being formed into a Company in pursuance of this Memorandum of Association, and we respectively agree to take the number of shares in the capital of the Company set opposite our respective names.

Names, Addresses and Descriptions
of Subscribers

Number of Shares taken
by each Subscriber

Stephen Mabbott
14 Mitchell Lane
Glasgow
G1 3NU

One

Company Formations Manager

Brian Reid
5 Logie Mill
Beaverbank Office Park
Logie Green Road
Edinburgh
EH7 4HH

One

Company Search Manager

Dated 19 February 1996

Witness to the above Signatures:-

Pat Devine
5 Logie Mill
Beaverbank Office Park
Logie Green Road
Edinburgh
EH7 4HH

Company Registration Agent

THE COMPANIES ACTS 1985 to 1989

PRIVATE COMPANY LIMITED BY SHARES

ARTICLES OF ASSOCIATION OF

LAND & MINERAL SURVEY SERVICES LIMITED

PRELIMINARY

1. (a) The Regulations contained in Table A in the Schedule to the Companies (Tables A to F) Regulations 1985 (SI 1985 No. 805) as amended by the Companies (Tables A to F) (Amendments) Regulations 1985 (SI 1985 No. 1052) (such Table being hereinafter called "Table A") shall apply to the Company save in so far as they are excluded or varied hereby and such Regulations (save as so excluded or varied) and the Articles hereinafter contained shall be the regulations of the Company.

(b) In these Articles the expression "The Act" means the Companies Act 1985, but so that any reference in these Articles to any provision of the Act shall be deemed to include a reference to any statutory modification or re-enactment of that provision for the time being in force.

2. The Company is a private company and accordingly no offer shall be made to the public (whether for cash or otherwise) of any Shares in or Debentures of the Company and no allotment or agreement to allot (whether for cash or otherwise) shall be made of any Shares in or Debentures of the Company with a view to all or any of those Shares or Debentures being offered for sale to the public.

SHARES

3. The Shares shall be under the control of the Directors and the Directors may allot, grant options over, or otherwise dispose of or deal with any unissued shares and relevant securities (as defined by Section 80(2) of the Act) to such persons and generally on such terms and in such manner as they think fit.

4. Any original shares for the time being unissued and any new shares from time to time be created and which the Directors propose to issue shall first be offered to the Members in proportion as nearly as may be to the number of existing shares held by them respectively unless the Company in General Meeting shall otherwise determine. Such offer shall be made by notice in writing

specifying the number of shares offered and limiting a period (being not less than fourteen days) within which the offer, if not accepted will be deemed to be declined. After the expiration of such time, those shares so deemed to be declined shall be offered in the proportion aforesaid to the persons who have, within the said period, accepted all the shares offered to them; such further offer shall be made in like terms in the same manner and limited by a like period as the original offer.

5. In accordance with Section 91(1) of the Act, Sections 89(1) and 90(1) to (6) inclusive of the Act shall not apply to the Company.

6. The Directors are generally and unconditionally authorised for the purposes of Section 80 of the Act, to exercise any power of the Company to allot and grant rights to subscribe for or convert securities into shares of the Company up to the amount of the authorised share capital with which the Company is incorporated at any time or times during the period of five years from the date of incorporation and the Directors may, after that period, allot any shares or grant any such rights under this authority in pursuance of an offer or agreement so to do made by the Company within that period. The authority hereby given may at any time (subject to the said Section 80) be renewed, revoked or varied by Ordinary Resolution of the Company in General Meeting.

SHARES

7. The lien conferred by Clause 8 in Table A shall attach also to fully paid-up shares, and the Company shall also have a first and paramount lien on all shares, whether fully paid or not, standing registered in the name of any person indebted or under liability to the Company, whether he shall be the sole registered holder thereof or shall be one of two or more joint holders, for all moneys presently payable by him or his estate to the Company. Clause 8 in Table A shall be modified accordingly.

8. The liability of any Member in default in respect of a call shall be increased by the addition at the end of the first sentence of Clause 18 in Table A of the words "and all expenses that may have been incurred by the Company by reason of such non-payment".

TRANSFER OF SHARES

9. The Directors may, in their absolute discretion and without assigning any reason therefor, decline to register any transfer of any share whether or not it is a fully paid share.

Clause 24 of Table A shall not apply to the Company.

APPOINTMENT OF DIRECTORS

10. (a) Clause 64 in Table A shall not apply to the Company.

(b) Unless and until the Company in General Meeting shall otherwise determine there shall be no maximum number of Directors and the minimum

number of Directors shall be one. If and so long as there is a sole Director he may exercise all the powers and authorities vested in the Directors generally and Clause 89 in Table A shall be modified accordingly.

(c) The Directors shall not be required to retire by rotation and Clauses 73 to 80 (inclusive) in Table A shall not apply to the Company.

(d) No person shall be appointed a Director at any General meeting unless either

(i) he is recommended by the Directors, or

(ii) not less than fourteen nor more than thirty five clear days before the date appointed for the General Meeting, notice signed by a Member qualified to vote at the General Meeting has been given to the Company of the intention to propose that person for appointment together with notice signed by that person of his willingness to be appointed.

(e) Subject to paragraph (d) above, the Company may by Ordinary Resolution in General Meeting appoint any person who is willing to act to be a Director, either to fill a vacancy or as an additional Director.

(f) The Directors may appoint a person who is willing to act to be a Director, either to fill a vacancy or as an additional Director, provided that the appointment does not cause the number of Directors to exceed any number determined in accordance with paragraph (b) above as the maximum number of Directors and for the time being in force.

(g) A person may be appointed a Director notwithstanding that he has attained the age of 70 years and no Director shall be liable to vacate office by reason only of his attaining or having attained that or any other age.

DISQUALIFICATION OF DIRECTORS

11. The office of a Director shall be vacated if he becomes incapable by reason of illness or injury of managing and administering his property and affairs, and Clause 81 in Table A shall be deemed extended accordingly. A Director need not be a Member of the Company.

GENERAL MEETINGS AND RESOLUTIONS

12. (a) A notice convening a General Meeting shall be required to specify the general nature of the business to be transacted only in the case of special business and Clause 38 of Table A shall be modified accordingly.

All business shall be deemed special that is transacted at an Extraordinary General Meeting, and also all that is transacted at any Annual General Meeting, with the exception of declaring a dividend, the consideration of the accounts, balance sheets, and the reports of the Directors and Auditors, and the appointment of, and the fixing of the remuneration of, the Directors and the Auditors.

(b) Every notice convening a General Meeting shall comply with the provisions of Section 372(3) of the Act as to giving information to Members in regard to their right to appoint proxies; and notices of and other communications relating to any General Meeting which any Member is entitled to receive shall be sent to the Directors and to the Auditors for the time being of the Company.

13. (a) Clause 40 in Table A shall be read and construed as if the words "at the time when the meeting proceeds to business" were added to the end of the first sentence.

(b) If a quorum is not present within half an hour from the time appointed for a General Meeting the General Meeting shall stand adjourned to the same day in the next week at the same time and place or to such other day and at such other time and place as the Directors may determine; and if at the adjourned General Meeting a quorum is not present within half an hour from the time appointed therefor such adjourned General Meeting shall be dissolved.

(c) Clause 41 in Table A shall not apply to the Company.

ALTERNATE DIRECTOR

14. A Director, or any such other person as is mentioned in Clause 65 in Table A, may act as an alternate Director to represent more than one Director, and an alternate Director shall be entitled at any meeting of the Directors or of any committee of the Directors to one vote for every Director whom he represents in addition to his own vote (if any) as a Director, but he shall count as only one for the purpose of determining whether a quorum is present.

BORROWING POWERS

15. The Directors may exercise all the powers of the Company to borrow money without limit as to amount and upon such terms and in such manner as they think fit and subject to Section 80 of the Act to grant any mortgage, charge or standard security over its undertaking, property and uncalled capital or any part thereof and to issue debentures, debenture stock and other securities whether outright or as security for any debt, liability or obligation of the Company or of any third party.

GRATUITIES AND PENSIONS

16. (a) The Directors may exercise the powers of the Company conferred by Clause 3 (N) of the Memorandum of Association of the Company and shall be entitled to retain any benefits received by them or any of them by reason of the exercise of any such powers.

(b) Clause 87 in Table A shall not apply to the Company.

PROCEEDINGS OF THE DIRECTORS

17. Provided that the nature of his interest is declared at a meeting of the board, or otherwise in accordance with the Companies Act 1985, no director is

disqualified by his office from contracting with the Company nor is any contract or arrangement entered into on behalf of the Company in which any director is in any way interested liable to be avoided nor is any director so contracting or being so interested liable to account to the Company for any profit realised thereby.

THE SEAL

18. (a) The Company may have a seal if it so wishes. Insofar as the Company has a seal it shall only be used with the consent of the Directors or of a committee of Directors. The Directors may determine who shall sign any instrument to which the seal is to be affixed and unless otherwise so determined it shall be signed by a Director and also by the Company Secretary or by a second Director. The Obligation under Clause 6 of Table A relating to the sealing of share certificates shall only apply if the Company has a seal. Clause 101 of Table A shall not apply to the Company.

(b) The Company may exercise the powers conferred by Section 39 of the Act with regard to having an official seal for use abroad and such powers shall be vested in the Directors.

INDEMNITY

19. (a) Every Director or other officer of the Company shall be indemnified out of the assets of the Company against all losses and liabilities which he may sustain or incur in or about the execution of the duties of his office or otherwise in relation thereto, including any liability incurred by him in defending any proceedings, whether civil or criminal, in which judgement is given in his favour or in which he is acquitted or in connection with any application under Section 144 or Section 727 of the Act in which relief is granted to him by the Court, and no Director or other officer shall be liable for any loss, damage or misfortune which may happen to or be incurred by the Company in the execution of the duties of his office or in relation thereto. But this Article shall only have effect in so far as its provisions are not avoided by Section 310 (1) of the Act.

(b) Clause 118 in Table A shall not apply to the Company.

Names, Addresses and Descriptions of Subscribers

Stephen Mabbott
14 Mitchell Lane
Glasgow
G1 3NU

Company Formations Manager

Brian Reid
5 Logie Mill
Beaverbank Office Park
Logie Green Road
Edinburgh
EH7 4HH

Company Search Manager

Dated 19 February 1996

Witness to the above Signatures:-

Pat Devine
5 Logie Mill
Beaverbank Office Park
Logie Green Road
Edinburgh
EH7 4HH

Company Registration Agent