Computershare

8th Floor, 100 University Avenue Toronto, Ontario M5J 2Y1 www.computershare.com

Security Class COMMON SHARES

Holder Account Number



Form of Proxy - Annual General Meeting to be held on November 9, 2017

This Form of Proxy is solicited by and on behalf of Management.

Notes to proxy

- 1. Every holder has the right to appoint some other person or company of their choice, who need not be a holder, to attend and act on their behalf at the meeting or any adjournment or postponement thereof. If you wish to appoint a person or company other than the persons whose names are printed herein, please insert the name of your chosen proxyholder in the space provided (see reverse).
- 2. If the securities are registered in the name of more than one owner (for example, joint ownership, trustees, executors, etc.), then all those registered should sign this proxy. If you are voting on behalf of a corporation or another individual you must sign this proxy with signing capacity stated, and you may be required to provide documentation evidencing your power to sign this proxy.
- 3. This proxy should be signed in the exact manner as the name(s) appear(s) on the proxy.
- 4. If this proxy is not dated, it will be deemed to bear the date on which it is mailed by Management to the holder.
- 5. The securities represented by this proxy will be voted as directed by the holder, however, if such a direction is not made in respect of any matter, this proxy will be voted as recommended by Management.
- 6. The securities represented by this proxy will be voted in favour or withheld from voting or voted against each of the matters described herein, as applicable, in accordance with the instructions of the holder, on any ballot that may be called for and, if the holder has specified a choice with respect to any matter to be acted on, the securities will be voted accordingly.
- 7. This proxy confers discretionary authority in respect of amendments or variations to matters identified in the Notice of Meeting or other matters that may properly come before the meeting or any adjournment or postponement thereof.
- This proxy should be read in conjunction with the accompanying documentation provided by Management.

Proxies submitted must be received by 10:00 AM, Mountain Time, on November 7, 2017.

VOTE USING THE TELEPHONE OR INTERNET 24 HOURS A DAY 7 DAYS A WEEK!

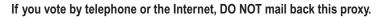
To Vote Using the Telephone

Call the number listed BELOW from a touch tone telephone.

1-866-732-VOTE (8683) Toll Free

To Vote Using the Internet

- Go to the following web site: www.investorvote.com
- Smartphone? Scan the QR code to vote now.



Voting by mail may be the only method for securities held in the name of a corporation or securities being voted on behalf of another individual.

Voting by mail or by Internet are the only methods by which a holder may appoint a person as proxyholder other than the Management nominees named on the reverse of this proxy. Instead of mailing this proxy, you may choose one of the two voting methods outlined above to vote this proxy.

To vote by telephone or the Internet, you will need to provide your CONTROL NUMBER listed below.

CONTROL NUMBER

Fold





Fold

Fold

Appointment of Proxyholder I/We being holder(s) of Niocorp Developments Ltd. hereby appoint: Mark A. Smith, President, Chief Executive Officer and Executive Chairman

of the Company, or failing him, John F. As General Counsel and Corporate Secretary			ent,		other tha Meeting.	an the Ch	nairmai	n of the							
as my/our proxyholder with full power of s given, as the proxyholder sees fit) and all Ave., Denver, CO, 80237, on November 9,	other matters	s that may	properly come b	efore the	Annual G	eneral M	eeting o	of shareho	older						
VOTING RECOMMENDATIONS ARE	NDICATED	by <mark>high</mark>	ILIGHTED TEX	OVER	THE BOX	(ES.						For	Against	Abstain	
1. Number of Directors To set the number of Directors at six.															
2. Election of Directors To elect the following nominees as Director		Vithhold					For	Withhold	d				For	Withhold	
01. Mark A. Smith			02. Joseph A. C	arrabba		[0	03. Michael Mo	rris				
04. David C. Beling			05. Anna Castne	er-Wightm	lan	[0)6. Nilsa Guerre	ero-Mahon				
													For	Withhold	
3. Appointment of Auditors To appoint BDO USA, LLP Certified Publi	c Accountan	ts as Audit	tors of the Comp	any for the	e ensuing	year and	l author	ize the Dir	recto	ors to fix their re	emuneration				
												For	Against	Abstain	
To pass the following resolution: BE IT RESOLVED AS AN ORDINARY RE 1. The Long-Term Incentive Plan, substar Annual General Meeting of Shareholders 2. All unallocated entitlements under the L Company shall be permitted to grant awar 3. Any one director or officer of the Comp documents, instruments and assurances a	tially as deso (the "Meeting ong-Term In rds thereund any be and is	cribed in a g"), is here centive Pla er until No s hereby a	eby authorized ar an, as amended vember 9, 2020. uuthorized and dir	nd approve from time rected to c	ed to be ef to time, b do all such	ffective fr e and are n acts and	om the e hereby d things	date of th y approved and to ex	ne Me d and kecut	eeting. d authorized, a te and deliver a	nd the Il such				
Authorized Signature(s) - This section must be completed for your instructions to be executed. I/We authorize you to act in accordance with my/our instructions set out above. I/We hereby revoke any proxy previously given with respect to the Meeting. If no voting instructions are indicated above, this Proxy will be voted as recommended by Management.						Signature(s)						Date			
Interim Financial Statements – Mark this box would like to receive Interim Financial Statemen accompanying Management's Discussion and A by mail. If you are not mailing back your proxy, you may	nts and Analysis	to receive t	Annual Financia would like to rece accompanying Ma by mail. the above financial	ive the Ann anagement	iual Financi 's Discussio	al Stateme on and An	ents and alysis] glist.						
BTDQ		23	36731		хх	хх		А	R	1	999	99999	99999	9 +	

Print the name of the person you are appointing if this person is someone