



F]]`Z\ f] k_\ FdYI[jg\ijfe

56 7& ' 0 65 4 +) * 5 1 \$. +) # 6 + 1 0 5

5IF SPMF PG UIF 0NCVETQFSTPO JT U

t 1SPWJEF BO JOEFQFOEFOU BOE DPOGJEFOUJBM
t (BUIFS JOGPSNBUJPO SFMBUFE UP TUVEFOU DPC
TPMVUJPO
t "DDFTT TUVEFOU SFDPSET BOE PUIFS EPDVNFOU
MBX BOE \$PMMFHF QPMJDZ JO PSEFS UP GVM

5IF 0NCVETQFSTPO XJMM BTTJTU ZPV

t (SJFWBODF SFDPVSTF
t (SBEF SFWJFX
t)BSBTTNFOU
t %JSFDUJPO PO QSPDFEVSFT PS SFHVMBUJPO B
t "QQFBM QSPDFEVSFT GPS FJUIFS BDBEFNJD PS
t .FEJBUJPO



&YDFSQU GSPN UIF *OTUJUVUJPOBM &WBMVBUJPO 1PMJDZ

!\$%&*+##%\$B/MH/\$:!

9L ?&4#1&2!*0!,!-!*&!&\$!D1\$G!&*!(,2=B!\$(Z'B&=0'2!,1#!2&,1#,-#26!B\$1&'1&!,1#!'1'-,>!%-\$B'#4-'2
\$.!,! B\$4-2! ('.\$-! -'! =2&'=-! .\$.!&! B\$4-2! ,1#!&\$! ('! ,224-'#! &*,&! &*! B\$4-2! G=>? ! 1\$&
24(2&,1&=,>>)!B*,1!#!,.&'!-'! =2&-,&=\$1L

7L ?&4#1&2!*0!,!-!*&!&\$!(!'! =0'1!,!G=-&&'1!B\$4-2!'\$4&>=1'!,&!&*!(!'! =11=1!\$.!,B*!B\$4-2!'G*=B*
2&,&'2!&*!'-'4=-#!&'Y&2!,1#!K,&'=-,>26!&*!\$(Z'B&\$0&2!'!B\$4-2'6!&*!'&',B*=1!K!&*\$#26!&*
'0,>4,&=\$1! 2)2&'K! &\$! ('! 42'#6! =1B>4#=#1! &'1&,&=0' #,&'2! .\$.! K,Z\$-!,22=1K'1&2!,1#! &'2&26!,1#
'%1,>&=2!.\$-!>,&'!,22=1K'1&2!\$-!K=22=1!!,!&'2&L

QL ?&4#1&2!*0!,!-!*&!&\$!(!'1\$&=.#!\$.!,1)!B*,1!'! =1!B\$4-2!'\$4&>=1!2!&=K!&\$!(,(>'!&\$!K"&
#,#>=1'2!.\$-!,22=1K'1&2!,1#!&'2&2L

VL ?&4#1&2!*0!,! -!*&! &\$! *,0! &*=-! B\$4-2'2! *!>#! ,&! &*! &=K'2!,1#! %>,B'2! 2B*'#4>#!' =1! &*
&=K'&,(>'!,&'!-'! =2&-,&=\$16!41>'22!&*2!,-!\$. =B=,>>)!B*,1!#!(!&*!'! =2&-,i2!W..=B'L

:L ?&4#1&2!*0!,!-!*&!&\$!*,0!&*=-!B>,22'2!2&-,&!,1#!'1#!\$1!&=K'L

[L ?&4#1&2!*0!,!-!*&!&\$!(!'#0=2'#! =1!B\$4-2!'\$4&>=1'2!\$.!&*=-!&',B*-2!'Y%B&,&=\$12!G=&*!-'!,-#
&\$!B>,22!,&&'1#,1B'!,1#!,1)!%1,>&=2!.\$-!,(2'1B'2!\$-!>,&'1'22L

RL ?&4#1&2!*0!,!-!*&!&\$!(!'1\$&#!\$.!B>,22!B,1B'>>,&=\$12!,2!2\$2\$1!,2!%\$22=(>'L!! @0'1! =.!%=-\$-1!\$&=B'
*,2!(('1! =0'1! =1!B>,226!2&4#1&2!*0!,!-!*&!&\$!*,0!,>>!B>,22!B,1B'>>,&=\$12!%\$2&#L

5L ?&4#1&2!*0!,!-!*&!&\$!*,0!&*=-!&',B*-2!'%\$2&!,1#!D"%!\$. =B!'*\$4-2L!!<1!H\$1&=14=1! @#4B,&=\$16
%-B&=B'!G=&*!-'!,-#!&\$!%\$2&=1!,1#!,0,=>,(=>=&)!\$.!\$. =B!'*\$4-2!K,)0,-)L

SL ?&4#1&2!*0!,!-!*&!&\$!(!'#0=2'#! =1!&*!B\$4-2!'\$4&>=1'\$.!&*!2%'B=. =B! =K%>=B,&=\$12!\$.!B*',&=1!
,1#!%>,! =,-=2K!.\$-!,B*!B\$4-2'L

98L ?&4#1&2!*0!,!-!*&!&\$!(!'24(Z'B&'!&\$2&6!(>=&&>=1!6!\$.!# =2B=-K=1,&,\$-)!-'K,-D2!\$-!(('*0=\$4-
=1!&*!B>,22-\$2KL

99L ?&4#1&2!*0!,!-!*&!&\$!'Y%B&!&*=-!&',B*-2!'&\$!#&'&-K=1',1#!K,=1&=1!2&,1#,-#2!\$.!2&4#1&
(*0=\$4-!G*=B'!G=>>1!\$&!..!B&!,#0'-2'>)!&*!'>,-1=1!\$.!2&4#1&2! =1!&*!B>,22-\$2KL

97L ?&4#1&2!*0!,!-!*&!&\$!,1!\$&=1!0,>4,&=\$1!\$.!&*=-!%'-.\$.-K,1B'! =1!&*=-!B\$4-2'2!&*\$4!\$4&
&*!'2'K'2&'L!!,*')!*,0!,!-!*&!&\$!(!'#0=2'#!\$.!&*=-!%'-\$!-'22! =1!B\$4-2'2!(!)K=#'K'2&'L

9QL ?&4#1&2!*0!,!-!*&!&\$!*,0!&*=-!-,#2!&'&#!,2!B\$1.=#1&=

9VL ?&4#1&2!*0!,!-!*&!&\$!-'0='G!,>>|!-,##!G\$!G=&*!&*!&',B*-'!4%!&\$!&*!'1#\$.!&*!.\$>>G=1I
2'K'2&'-L!<1!&*!'0'1&!&*,&!&*!&',B*-'!2!,G,)!-.\$K!&*!H\$>>'!6!2&4#1&2!,-'!#,0=2#!&\$!B\$1&,B&
&*!#%,&-&K'1&!B*,=-L

9:L ?&4#1&2!*0!,!-!*&!&\$!-'4'2&!,!-,#!-'0='G6!24(Z'B&!&\$!&*!%-\$0=2=\$12!\$.!&*!'!0='G
%-\$B'#4-'2!=1!&*!<12&=&4&=\$1,>!?&4#1&2!@0,>4,&=\$1!A\$>=B)L!<.!&*!'?'B&\$-!F',!!=1#2!&*,&!&*!-'4'
.\$-!&*!'!-,#!-'0='G!=2!G'>>!. \$41#'#6!2&4#1&2!*0!,!-!*&!&\$!,%%,-!(.'\$-!&*!#%,&-&K'1&,>
!-,#!-'0='G!B\$KK=&&'!&\$!%- '2'1&!&*!=-!B,2'L

9[L ?&4#1&2!*0!,!-!*&\$.!\$G1'-2*=%!\$.!,1)!\$-!|=1,>!G\$-D!&*)!*0!%-\$#4B#!,1#\$.!,1)! 'Y,K
%,%'-26!=1B>4#=#1!B>,22!&'2&26!4=dd'2!,1#!'Y,K=1,&=\$126!G*=B*!&*)!*0!G-=&&'1L!;!&'&,B*-'!*,2
!,!-!*&!&\$!-'&,=#1!&*!,B&4,>!&'2&'4'2&=\$12L

9RL ?&4#1&2!*0!,!-!*&\$.!\$G1'-2*=%!\$.!,1)!\$-!|=1,>!G\$-D!,1#!'Y,K!%,%'-2!-'&4-1#!%-\$K%&>)!&\$!&*!KL!;!*
-!*&!&\$!*,0!G\$-D!-'&4-1#!#'\$2!1\$&!,%%>)!=#1!B,2'2!G*-'!B*!,&=#1!\$-!%>,!=-,2K!K,)!('!=10\$>0#L

95L ?&4#1&2!*0!,!-!*&!&\$!*,0!&*=-!G\$-D!,1#!'Y,K!%,%'-2!-'&4-1#!=#1#=#4,>>)!K\$!@Y,K
%,%'-2!,1#1&2&4#1&!G\$-D!-'!1\$&!&\$!(!>'&!=1!4124%'0=2#!,-'2!24B*!,2!*,>>2!\$-!\$4&-!\$..=B'2L

9SL ?&4#1&2!*0!,!-!*&!&\$!*,0!&*=-!G\$-D!,1#!'Y,K!%,%'-2!-'&4-1#!=#1#=#4,>>)!K\$!@Y,K
&,'B*-'!\$-6!=1!&*!,(2'1B!\$.!&*!&',B*-'6!())&*!# %,-&K'1&!B*,-L!;!*=2!-!*&!#'\$2!1\$&! 'Y&\$1#!&
(4>D)!G\$-D!24B2!#-,G=1!26!2B4>%&4-'26!%,&&B\$>>,!2!,1#!%\$-&.\$>=\$2L

78L ?&4#1&2!*0!&*!'2,K!'!-!*&!,BB\$-#'#!&\$!\$&*-'!K'K('2!\$.!&*!'F,G2\$1!B\$KK41=&)!&\$!,&&'1#
,1#!%,&-&=B=%,&'!=#1!H\$>>'!K"&=#1!2!#1!&2!*0!,!-!*&!&\$!D1\$G!G*!),!K"&=#1!=#2!#B>,-#
B>\$2#L

79L ?&4#1&2!*0!,!-!*&!&\$!,B,#K=B!,#0=2=1!B\$1B'-1=1!%-\$!-,K!,1#!!-,#4,&=\$1!-'4=-'K'1&26
,B,#K=B!-'!4>,&=\$12!,1#!41=0'-2=&!),#K=22=\$12L

77L ?&4#1&2!*0!,!-!*&!&\$!0='G!,1)!\$.=B=,>!'B\$-#B\$=2&2!=1!&*!=-!.=>'2L

7QL ?&4#1&2!*0!,!-!*&!&\$!,1!'10=-\$1K'1&!G*=B*!=2!2,.,1#!B\$1#4B=0!&\$!>,-1=1!L

\$%&*+##%\$W!'E)"M(%"##\$:

9L ?&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$!D1\$G!&*!-'`4=-'K'1&2!\$.!&*=-!%-\$I-,K2!\$.!2&4#)6!≠1B\$4#≠1 ,B,#K=B!2&,1#≠1!-'`4=-'K' 1&26!,1#&\$!2"D!>!*%!.-\$K!"B,#K=B!"#0=2=1!G*1'0'-!1'B'22,-)L

7L ?&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$!,B`4,=1&!*K2>0'2!G=&*!&*!#,#>=1'2!,1#&*!%-\$B#4-2!&\$!(' .>>\$G#!.\$-!'=2&-,&=\$1!,1#B\$4-2!'B* ,1'L

QL ?&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$!,B`4,=1&!*K2>0'2!G=&*!&*!B\$4-2!\$4>=1'6!\$(Z'B&=0'26!&'B*=1! K'&*#\$>\$!)!,1#!'0,>4,&=\$1!2)2&'K!\$.!,B*!B\$4-2!.\$-!G*=B*!&*!)!,-!'=2&-'#6!,1#&\$!,224K' -'2%\$12=(=>=&)!.\$-!B\$K%>'&=1!B\$4-2!-'`4=-'K'1&2L

VL ?&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$! -'2%'B&!&*=-!&'B*=-2*!&\$! #'&'-K=1! B\$4-2! B\$1&'1&6 K'&*#\$>\$!)!,1#!'0,>4,&=\$1!G=&*=1!&*!4=#>=1'2!2!&!)!&*!U=1=2&-)!\$.!@#4B,&=\$1!,1#B\$12&-,=1&'2&,(>=2*#!())!&*!,B,#K=B! #'%,&'K'1&26! %-\$I-,K2! ,1#&*! <12&=&4&=\$1,>! ?&4#1&! @0,>4,&=\$1 A\$>=B)L

:L ?&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$!&D!,B&=\$1!&\$!2\$>0!,B,#K=B!%-\$(>'K26!G*=B*!&*!)K,)!'1B\$41&- =1!&*=-!B\$4-2'26!())!B\$K41=B,&=1!G=&*!&*=-!&'B*-2!\$-!())!2"D=1!>!*%&*\$-\$4!H\$>>'!'!2'-0=B'2 24B*!,2!"B,#K=B!"#0=2=1!6!H\$412'>>=1!6!&*!"B,#K=B!D=>>2!H'1&'6!\$-!H>k\$L

[L ?&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$! (!*\$'1'2&!,1#&\$!-'.,=1! .-\$K! B*,&=1!6! %>,I=-,=2K! ,1#&\$*- #=2*\$'1'2&I\$-!#B'%&=0!(!*,0=\$4-L!?!&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$!=\$.-\$K!&'K2>0'2!\$.!,>>!,2%'B&2 \$.!&*!H\$>>'!'!2!%\$>=B)!\$1!B*,&=1!!,1#!%>,I=-,=2KL

RL ?&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$!,&&'1#&*=-!2B*#4>#!>,-1=1!!,B&=0=&=2'L

5L ?&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$! -'K,=1! =1.\$-K'#! ,(\$4&! G*,&! &,D'2! %>,B'! =1! &*=-! -'I4>,->) 2B*#4>#!B>,22'2L!"(2'1B'!.-\$K!B>,22!#2!1\$&'YB42'!2&4#1&2!.-\$K!&*=-2!-'2%\$12=(=>=&)L

SL ?&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$!K,D!,-,1!K'1&2!=1!,#0,1B'!&\$!K"&!&*!-'`4=-'K'1&2!\$.!,1) B>,22'2!K=22'#!,2!,!'24>&!\$.!&,D=1!!,1!=1&'12=0!B\$4-2!G*=B*!.\$-B'2!&*K!&\$!(!,(2'1&!.-\$K!&*=- -'I4>,->)! 2B*#4>#! B\$4-2!\$.!-'=1!2L!! ?&4#1&2! G*\$! &,D'! =1&'12=0! B\$4-2'2! K,24(Z'B&! &\$ %'1,>&=2!.\$-!K=22>1(\$-,&\$=-'2\$-!&'2&2!%-2B-(#!=1!&*!B\$4-2!\$4>=1'L

98L ?&4#1&2!* ,0! ,1!\$(>=I,&=\$1!&\$!-'2%'B&!&*=-!&'B*-2!=-!&*!&\$!.\$-K4>,&!,1#!'1.\$-B'!%\$>=B='2!\$1 >,&'1'22!,1#!,&&'1#,1B'L!!A'1,>&=2!.\$-!,(2'1B'2!K,)!=1B>4#'.!,=>4!&*!B\$4-2'L

99L

9VL ?&4#'1&2!* ,0! ,1!\$(>=I,&=\$1!&\$!-'2%'B&!&' ,B*'-2i!-I*!&&\$!2'&!# ,#>=1'2!.\$-!,22=11'#!G\$-D! ,1#!&\$
'2&,(>=2*!%'1 ,>&='2!.\$-!.,=>4-'!&\$!B\$K%>)!G=&*!&*'2'!# ,#>=1'2L!!?&4#'1&2!* ,0! ,1!\$(>=I,&=\$1!&\$
24(K=&!&'=-!G\$-D!,&!&*'!&=K'!2%'B=.=#!&!'&*'!-L

9:L

t "DBEFNJDT HSBEJOH EJTQVUFT UFTUJOH QSPDF