

6DIHW\ &RPPLWWHH 0HHWLQJ
:HGQHVGDI\ 0DUFK
%RDUG 5RRP

0HPEHUV SUHVHQW ~~6W8DD\)~~ %RQDWR & BQQDFD DNDNBOBU 3DW
0RUULVRQ 7HUHVD 3HWHUV 0DULD6KDHDJRU- HCKDLZG U6 H WYLY
-DPHV 9LDWRU DQG 6WHSKDQLH :DPVOH\
*XHVW \$DURQ 5DPVH\ IURP (GZDUGV 5LVN 0DQDJHPPHQW

1DWKdq)U\PD ~~PHFVDDOJH~~ /WRRHGHU DW 30

7KH PLQXWHV IURP WPHH ~~HVQDQD~~ ZHWHRGW KWUJRXVSH 6WHSKDQ
:DPVOH\ PDGH D PRWHRQL ~~Q~~ RWHS/SURK ~~HE~~ RQGHUGY VHKHWIRWLRQ

1DWKdq KDG HYHU\RQH LQWURGXFH WKHPVHOYHV

1DWKdq UHYLHZHG ~~FWKHFQDQXDUH'SR~~ WWHZHWK WKH FRP
)DFLOLWLHV 0DQDJ ~~GMHQWH~~ &XVDR ~~QRDQVZRP~~ PRLQWKKH O
)DFLOLWLHV 0DQDJ ~~QJHPHQMXUD~~ HQWHDQDQR Q QMXULHV WKXV
&KLOG 1XWULWLHV ~~IRDG-~~ QXIDQMXU
7UDQVSRUWDWLRQ ~~KDQXQ~~ B\LQM XW ~~KDQV~~ BRKULW ~~B~~ VQXPEHU RI ID
HDUOLV ~~FKR~~ ~~VRKQ~~ XHDU
3URIHVVLRRQDO LQM ~~X~~ HUHRI ~~KDQJ~~ DNHL ~~DKQ~~ XFNDDQMXKULV \HDU

1DWKdq UHYLHZHG/ ~~WKSRUWH~~ ZUWFO ~~DLP~~ HF &RPSWFOHDL P: RLVW
VKRZV KLJK WKLWR ~~HQD~~ WRL ~~Q~~ FRPSS ~~DK~~ RRVNHZR &RPSVLQFXUUH
VOLJKWO\ OHVV ~~FKV~~ ~~QLJK~~ HU WKDQ

6KDUD\ %R\QWRQ UH ~~SR~~ ~~QV~~ ~~HQ~~ ~~WQ~~ YMK ~~SH~~ ~~GD~~ ~~HU~~ ~~DP~~ ~~PH~~ ~~Q~~ ~~W~~ ~~W~~ ~~XU~~ \ DQG
(+DUGHDPQ ZRQ W &KLGNDZ) ~~QQ~~ IR ~~SW~~ ~~FD~~ ~~NS~~ ~~DX~~ ~~VW~~ %BG QR VC
RU IDOO LQM X ~~QL~~ ~~GH~~ ~~YH~~ ~~IR~~ ~~WX~~ ~~DD~~ ~~X~~ ~~DL~~ ~~UX~~ ~~H~~ ~~IG~~ ~~Q~~ ~~B~~ ~~XW~~ ~~OS~~ ~~GH~~ ~~HS~~ ~~OL~~ ~~W~~ ~~Q~~ ~~MX~~ ~~UL~~
7KH QH[W GUDZLQSVI ~~RD~~ ~~Q~~ ~~RD~~ ~~VO~~ ~~OL~~ ~~SD~~ ~~Z~~ ~~W~~ ~~U~~ ~~GH~~ ~~LV~~ ~~LZ~~ ~~Q~~ ~~O~~ ~~E~~ ~~H~~
,Q VSULQJ ZLQQLQJ FDP SXVHV ~~D~~ ~~IL~~ ~~D~~ ~~Q~~ ~~WE~~ ~~HR~~ ~~S~~ ~~UD~~ ~~Q~~ ~~GH~~ ~~PS~~ ~~DR~~ ~~F~~
,Q IDOO D GUDZLQJ ~~ZD~~ ~~OF~~ ~~ES~~ ~~X~~ ~~K~~ ~~H~~ ~~Z~~ ~~LW~~ ~~RK~~ ~~QR~~ ~~U~~ ~~Q~~ ~~M~~ ~~XU~~ ~~H~~ ~~H~~ ~~O~~ ~~X~~ ~~Q~~ ~~F~~
VDIHW\ WRNHQ ~~UW~~ ~~RQ~~ ~~WL~~ ~~X~~ ~~Q~~ ~~L~~ ~~I~~ ~~U~~ ~~M~~ ~~K~~ ~~H~~ ~~F~~ ~~K~~ ~~L~~ ~~H~~ ~~Y~~ ~~H~~ ~~P~~ ~~H~~ ~~Q~~ ~~W~~

)DFLOLW\ 6DIHW\H, ~~G~~ ~~X~~ ~~S~~ ~~H~~ ~~E~~ ~~W~~ ~~L~~ ~~R~~ ~~Q~~ ~~H~~ ~~V~~ ~~D~~ ~~W~~ ~~R~~ ~~&~~ ~~B~~ ~~S~~ ~~Q~~ ~~G~~ ~~V~~ ~~D~~ ~~F~~ ~~X~~ ~~S~~ ~~H~~ ~~O~~ ~~Y~~ ~~O~~ ~~L~~ ~~M~~ ~~R~~ ~~U~~ ~~V~~ ~~R~~
FDQ DXWKRUL]H ~~WR~~ ~~R~~ ~~H~~ ~~G~~ ~~B~~ ~~W~~ ~~K~~ ~~I~~ ~~H~~ ~~W~~ ~~Q~~ ~~W~~ ~~O~~ ~~F~~ ~~F~~ ~~H~~ ~~L~~ ~~R~~ ~~G~~ ~~R~~ ~~Q~~ ~~H~~ ~~E~~ ~~H~~ ~~V~~ ~~H~~ ~~Q~~ ~~Z~~ ~~I~~ ~~X~~ ~~D~~ ~~O~~ ~~O~~ \
\$Q H[SODQDWLRQ ~~FG~~ ~~H~~ ~~Z~~ ~~W~~ ~~L~~ ~~Z~~ ~~H~~ ~~U~~ ~~L~~ ~~K~~ ~~R~~ ~~X~~ ~~O~~ ~~T~~ ~~Q~~ ~~D~~ ~~H~~ ~~S~~ ~~X~~ ~~S~~ ~~S~~ ~~D~~ ~~V~~ ~~Q~~ ~~H~~ ~~R~~ ~~G~~ ~~D~~ ~~I~~ ~~D~~ ~~F~~ ~~L~~ ~~O~~ ~~L~~
LQVSHFWLRQ ZDV ~~QH~~ ~~S~~ ~~L~~ ~~O~~ ~~V~~ ~~L~~ ~~Q~~ ~~H~~ ~~G~~ ~~V~~ ~~E~~ ~~H~~ ~~H~~ ~~U~~ ~~U~~ ~~Q~~ ~~V~~ ~~S~~ ~~H~~ ~~Z~~ ~~M~~ ~~G~~ ~~R~~ ~~Q~~ ~~Z~~

6DIHW\ \$ZDUHQHVV DFWLYLWLHV ZHUH UHYLHZHG E\ WKH F

\$DURQ 5DPVH\ IURP ~~DQ~~ ~~ZD~~ ~~H~~ ~~B~~ ~~M~~ ~~Q~~ ~~S~~ ~~V~~ ~~S~~ ~~U~~ ~~H~~ ~~V~~ ~~H~~ ~~Q~~ ~~W~~ ~~R~~ ~~I~~ ~~G~~ ~~W~~ ~~K~~ ~~K~~ ~~H~~ ~~L~~ ~~U~~ ~~K~~ ~~W~~ ~~K~~ ~~I~~ ~~O~~ ~~L~~ ~~G~~
7KH :HOOQHVV SURJ ~~Q~~ ~~V~~ ~~P~~ ~~J~~ ~~K~~ ~~W~~ ~~Q~~ ~~H~~ ~~W~~ ~~F~~ ~~Q~~ ~~R~~ ~~L~~ ~~Q~~ ~~G~~ ~~V~~ ~~Z~~ ~~H~~ ~~H~~ ~~N~~ ~~R~~ ~~I~~ ~~L~~ ~~Y~~ ~~H~~

