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 — „æ ' • - " f ... - < • %
 á á f • ' — " á f " †™ f " ætv{vru -- f
 Šä ' äã r\$zwwæ
 æ • f < Žšã " • f ä f • - 7 „ Š † Ž ä • ä • — " f œ " f • f • Š 7 „ Š † Ž ä • ä
 † 4 — • f " 7 „ Š † Ž ä • ä ~ • • Š " f 7 „ Š † Ž ä • ä Š " † † •

d E Z EYh/Zz EKXW yIòñôìîîîñlííóól'í

E/drEKd/ /Es/d/E' d E Z &KZ KW E d E Z /E dtK W Zd / d,ZK
 rWZK hZ D Ed WKZd >

6DOLHQW 'HWDLOV RI 1RWLFH ,QYLWLQJ 7HQG	
6O 1R	,V VXH 'HVFULSWLRQ
	,WHP GHWDL \$W SHU \$QQH[XUH \$ RI DWWDFKHG *HQ HUDO (QTXLU) 1R *
,V VXH RI 7H GRFXPHQWV	QGRB %+(/ H3URFXUHPHQW ZHEVLWH <u>KWWSV HSURFXUHEKHO</u> GRFXPHQWV ZLOO GRZQORDGLQJ IURP %+(/ H 3URFXUHPHQW VXEPL
7HQGHU I	
'XH GDWH VXEPLVVLRQ	RDWRHIIHU 7LPH +UV KWWSV HSURFXUHEKHO FR LQ QLFJHS DSS 2IIHU WR EH VXEPLWWHG LQ RQOLQH RQO\ V %LG GHU V DUH UHTXHVHG WR YLVLW ZHEV DPHQGPHQWV H[WHQVLRQ PRGLLI
2SHQLQJ RI 7HFKQR &RP %LG	RDWRHIIHU 7LPH +UV PRWHLDO 7KLV WHQGHU EHLQJ DQ H WHQGHU LW VKD WKH (3URFXUHPHQW 3RUWDO 3DUWLFLSD RSHQLQJ RQOLQH RQO\
/DWHVW XSG	DDMMVW XSGDWHV RQ WKH LPSRUWDQW GDV &RUULJHQGD &ODULILFDWLRQV &KDQJHV HWF WR 7HQGHU 6SHFLILFDWLRQV ZLOO EH <u>KWWSV HSURFXUHEKHO</u> GRFXPHQWV ZLOO EH NHHS WKHPVHOYHV XSGDWI

Wo • •µ u]š Ç}µœ }((œ }voÇ (}œ šZ }À œ <µœœœu vš •µ]i š
 ^%o]([]š}}v o d œu•%o }}v dšš}œ•u• v ũ}}vZ]š}}v••%o]([š}}v•
 œ <µ]œ ũ vš •š s œ•}}v }(' E Z > /E^dZh d/KE^ E ^d E Z d ZD
 ~'/^dX•Wo • À]•Zšš%œW]IŁÁœX Z oX }ul Z oÁ (}œ o&š o š IÀ]œ•Xiv
 ' v œ o /v•šœµ^š}}v•œv d œu• ~ }v]š}}v• ~'/^d • (}œ d v œ v<µ]

s o] D^ œš]([š •µ Z • h z D Z P]•šœ š}}v œš]([š]••µ
 •Z oo •µ u]šš }v •µ%o%o}œš }(D] œ} ~ ^u oo vš œ%œ]• • ~D^

• %o OE šZ KD E}X &X E}X í~î•~í•îîîîòrD š X iõXîîXîîíó]••µ
}uu]••]}v OE ~D] OE}U ^u oo ~ D]µu vř OE%oOE]• ••U ^dOE OE• v
À]o šZ v (]š• Æš v µv OE šZ WW W}o] ÇX_

/E^dZh d/KE^ dK / Z^ &KZ ^h D/dd/E' K&& ZW

d ,E/ > Yh >/&/ W0K E Wµ o](Ç]vP Z <µ]OE u vř• ~WYZ• š} •µ u]
OE <µ]OE u vřX K((OE } (À v }OE• v}š u š]vP šZ • OE <µ]OE u vř• u

OE Á]vP• } (d v OE]š u• v }šZ OE } µu vř• Á]oo %o
{ (E}vr]• o }•µOE P OE u vř ~ µoÇ (]oo U •]Pv v •š u
À v }OE X s v }OE v %oOE}À] • vv }%oÇ } (E}vr]• o }•µ
ru]o v •l (}OE OE Á]vP• ~ } µu vř• Á oo (}OE }%o v]
v <µ]OE ÇX , > , OE] Á OE OE P]•š OE À v }OE• OE Æ u %o š
E}vr]• o }•µOE P OE u vřX &}OE u š } (E}vr]• o }•µOE v
P OE u vř]• šš Z Á]šZ š v OE } µu vřX

rW OE} µOE u vř W}OE š o /v %o µš•

W OE} µOE (}OE ^µ u]••]}v } (rK W OE} (}OE t d }OE OE u]••]}v } (d v OE
šZ ^] OE• D v µ o <]š_ v ^'µ] o]v • (}OE , ••o &OE] ^µ u]••
[Zšš %o • Wll %o OE} µOE Z oX }X \]v \]v \] P %o l %o %o](#)

d OE u• v }v]š]}v• u vř]}v šZ OE]v •Z oo (}OE u]vř P OE o %o OE š
šZ • u X

, OE Á OE v ^} (šÁ OE OE <µ]OE u vř• (}OE %o OE š]]%o š]vP]v r š v
Wo • OE (OE šZ Á •]š (}OE šZ u]v]µµ •Ç•š u OE <µ]OE u vř• v
µv OE šZ [Zšš %o • Wll %o OE} µOE Z oX }X \]v \]v \] P %o l %o %o](#)

]P]š o ^]Pv šµOE

] OE• P]v•š š v OE Á]oo v •• OE]oÇ Z À š} } š]v o •• t /// ^
À]o o }v ÁÁÁX Z oX }uXd}]v}Á šZ %oOE} µOE (}OE } š]v]vP
•µ %o %o o] OE• ÁZ } OE v }š Z À]vP šZ ^ OE À]• š} À]•]š }µOE Á

E/ %o }OE š o , o %o •l }v š š•

&}OE vÇ š Zv] o OE o š <µ OE] • %o o • oo š îđ Æ ó , o %o •l

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u]o ^µ %o %o }OE š

• &}OE vÇ /••µ • }OE o OE] (] š]}v• OE o š]vP š} šZ %o µ o]•Z š
šZ OE •%o š]À d v OE /vÀ]š]vP µšZ }OE]šÇX

• &}OE d Zv] [oµ %o %o %o }OE š W OE} }v \] X \]v](#)

E}š W K((Œ•Iš v Œ• •µ u]šš]v šZ rš v Œ %}Œš o •Z oo
À oµ š}}vX K((Œ• •vš Ç & y l ru]o l vÇ u} }šZ Œ šZ v rš v
^W / > EKøoW} µu vš• š} •µ u]šš •Z}µo µ%o}]v Œ •%o
%o}Œš o • %o Œ šZ o]•š u vš}}v P]À v]v šZ]• E/dX , > •Z o
} µu vš•X

</E >z Z ^^Ed/ > /E^dZh d/KE^ &KZ _/d,^kZk^h^>kx YhKd d/KE E
KZ E t/d, d, Ks /E^dZh d/KE^ Z >/ > dK /^Yh >/&/

^^ Ed/ > /E^dZh d/KE^ &KZ / ^h D/^^/KE

o µ• íXì t d v Œ •µ u]••}}v v }%o v]vP

7KH WHQGHUV VKD 702 355 76X E LHW WUIGEHQ EHZORZ RQ RU EHIR
RI WHQGHU RSHQLQJ

D 3DUW , &RYH 7UHFKQR &RPPHUF LDO 7HUPV &RQGLWLRQV
%LG 6SHFLILF \$GGLWLRQDO 7HUPV &RQGLWL
VKRXOG EH ILOOHG E\ YHQGRU DQG VXEPLWWH

5HSOLFD RI SULFH ELG XQ SULFHG TXRWDW
WHQGHU HQTXLU\
ï 0,, &HUWLILFDWH ,Q OLQH ZLWK *RYHUQPHQV
ODNH LQ ,QGLD 5 2YUWH BQ GDWHG WK -XO\
9DOLG 06(FHUWLILFDWH DSSOLFDEOH IRU 0L
LQ 7HQGHU (QTXLU\

'HYLDWLRQ ,I DQ\ ZLWK UHIHUHQFH WR
VKHHW UHIHU \$QQH[XUH

2WKHU \$QQH[XUHV DV DSSOLFDEOH

• W Œšr// ~dZÀ ~~ŒŒ~~•W]]v KY (}Œu š •Z oo }u%oŒ]• }(šZ %
%o Œ d v Œ v<µ]ŒÇX

W Œš // }vš]v]vP WŒ]] Á]oo }%o v }v • %o Œ š š (}Œ
šZ W Œš /X

¼ \$Q\ FRUUHFWLRQV DPHQGPHQWV VKDOO EH SURSHUO\
dZ] Œ• Á]oo Z À š} •µ u]š •]Pv }((Œ l] šZŒ}µPZ , >
<µ}š š}}v •Z}µo •]Pv v •š u%o Ç µšZ}Œ]ì Œ %oŒ •vš š
o] o š} Œ i š X

7HUPV DQG FRQGLWLRQV DJUHHG E\ YHQGRU LQ WHFKQR FRP
RSHQLQJ DQG DQ\ WHUPV PHQWLRQH G E\ YHQGRU LQ SULFH

o µ• E}X îXìW

• %œ]œ š]À • }(EdZ > s//> E KDD/^^/KEU 'Ks ZED Ed k
œ %œ • vš šÁ} }œ u}œ •μ%%o] œ• }œ ‹μ}š }v šZ]œ Z o(]v
•š P U , > , œ Á œ]• o]l oÇ š} v o v‹μ]œ] • l WK• š} •μ Z •μ
]• o]l oÇ š} ro]•š ~ o l o]•š (}œ μ•]v •• (œ}u , >•

o μ• E}X iXiW

dZ }((œ• }(šZ] œ• ÁZ} œ }v šZ œœ o]•š v o•} šZ
šZ • œÀ] • }(šZ œœ (]œuU •Z oo œ i š X dZ o]•š }
Á •][šÁÁX Z oX }u](#)



Z Œ š , À Ç o š Œ] o

^μ r }všŒ š]vP ~ '•

, WU , >U Z v]%μŒU , Œ] Á Œ r î ð ö ð i i

WZX E }XW i i i i ð r î ð ñ i i

↑Z Œ W X u]š } Z o X]v V • μŒ i %Œ l • Z } Z o X]v V v]Z o } Z

À u]•ZŒ } Z o X]v V ZŒ] • Z } Z

7(1'(5 (148,5< 12 ; *

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,WHPV 'HWDLOV RI 2SHQ 7HQGHU (QTXLU\ 1R ; *

š]o• }()(K%o d v			
/d D E}X	/d D ^ Z/Wd/KE	Z t/E' E}X ^{dKd > Yc}	E K X•
í	ZDU ydZ dKZU >	&d	î ó ô î î î î î î î î î
	ZD ydZ dKZU Z/'	d	î ó ô î î î î î î î î î ò î

dZ Œ š ~•• •Z}μoZμ%μ}š}Œv Z]š u • %Œ š oÇX

' v Œ o d Œ u• ~ }v]š]v• }(d v Œ v<μ]ŒÇW

íX t]šZ}μš Æ%o]]š ÁŒ]šš v %Œ u]••}v (Œ}u , >U , Œ] Á Œ W
• s v }Œ• •Z oo v}š %• • }v v Ç Œ Á]vP•l } μu vš• }Œ]š• }vš vš•l }%Ç]v v Ç
, Œ] Á Œ Á]šZ šZ v<μ]ŒÇl^μ r }všŒ š KŒ Œ š } v Ç }šZ Œ %Œ š Ç X

• s v }Œ• •Z oo v}š ^μ r }všŒ š šZ Á }Œ l }Œ %Œ š }(]š š } v Ç •μ r Á v }Œ X

• dZ s v }Œ• •Z oo v}š μ• , > , Œ] Á Œ Œ Á]vP•l } μu vš• ~•μ%o] Ç , >
v Ç }šZ Œ %Œ š Ç X

• /š •Z oo v•μŒ šZ š šZ u š Œ] o]• %Œ } μŒ ~]v • }(%Œ š Ç u š Œ]
}Œ Œ o š š •š Œ š](] š •X E} Á]Á Œ •Z oo %š o]v šZ]•X /v • šZ
š E > Œ]š o • }voÇX &]o]vP }Á U , > , Œ] Á Œ •Z oo Z Á šZ Œ]P
š]v o•}• v l }Œ]u%• }šZ %v oš Ç U • u (]š X

îX , > Œ • Œ Á • šZ Œ]PZš š }%v šZ %Œ]] ~%Œ š r//• o}vP Á]šZ šZ
}%š]v v]v šZ š • U Á v }Œ Á]oo]v(}Œ u }Œ]vPoÇX

ïX WŒ] ••Z oo (μŒ v]•Z • %Œ Œ š o v U Œ š Œ Œ]• o]v š]v Œ Œ }v š]v š
o Œ o Ç o P] o X

ðX /v šZ }μŒ• }(Á o μ š]vU](u }Œ šZ v }v] Œ Z %o% v • š } } μ%Ç
Ç }o]]š]vP]• }μvš• (Œ}u Œ •%š]Á >rí] Œ •X /v • u }Œ šZ v }v]

(š Œ •}o]]š]vP]• }μvš•U šZ >rí] Œ •Z oo] Ç š}••I Œ Á } (o)
] Œ ~•• }Œ šZ]Œ Œ %Œ • v š š]Á ~••X Z vI]vP Á]oo }v }Œ]vPoÇX ,
]v]vPX

ñX vÇ]š u v}š]v oμ]v šZ]• š v Œ {μ}š }Á v •Z}Áv • %Œ Œ š oÇ Á]
•Z oo]Pv}Œ ÁZ]o Á oμ š]}vX

òX , > Á]oo Á oμ š šZ š Zv] o]• P]v•š •• v š] o Œ]š Œ] |Œ {μ}Œ U
Œ {μ}Œ U (Œ}u šZ] Œ•X dZ • o Œ] (] š]}v• Á]oo }u u μ v] š š} šZ Á
P]Á v •μ (]] v š š]u š } Œ •%Œ}v šZ o Œ] (] š]}v•X

dZ }((Œ• } (šZ)•] Œ•U ÁZ} Œ μ v o š } Œ •%Œ}v]v šZ]• š]u (Œ u U Œ

óX u v u v š•I }ŒŒ]P v μuU](vÇU Á]oo Z}š }v •]Pv š Á •]š I ' V
v }v]š]}v• Á]oo • %Œ Œ š v Œ } μu v š•X

ôX ^š v Œ P μP • μ%Œ š} Dđî •Z oo]v Á v }Œ • }%Œ X

õX oo v o}•μŒ • u μ•š • v š Á]šZ šZ {μ}š š]}v Á]šZ • o v •]Pv š μŒ X

îX X , > Œ • ŒÁ • šZ Œ]PZš š} v o šZ v {μ}ŒÇ š vÇ •š P Á]šZ}μš

X , > Œ • ŒÁ • šZ Œ]PZš š} •μ•%Œ v I v o WK μv]o š Œ ooÇ Á]šZ}μš vÇ (
%Œ ()Œ u v]• v}š ()μv š } • š]• (š}ŒÇX

íX &}Œ Z •μ%Œ%oÇU Á v }Œ• Œ Œ {μ •š š} Œ]• • %Œ Œ š /vÁ]] o}v
}u%Œo] v Œ š] (] š U }%ŒÇ } (, > '^d Z oo vU D š Œ] o Œ]Á]vP ~D š Œ
} μu v š š Á v }Œ [• Á}Œ I • ~ 'μ Œ v š Œ š] (] š X /v • Á v }Œ Á]oo v}š •μ
'^d Z oo v š u v š]}v]v '^d Z oo v •Z oo }v•] Œ • u š Œ] o Œ]Á
u μ•š •μ u]šš]v /yr 'U , > , Œ] Á Œ ()Œ (μŒ šZ Œ %Œ Ç u v š %Œ } ••]vP

îX D v š}ŒÇ r]vÁ]]](š μŒ v}Á Œ } (Á v }Œ I }v š Œ š}Œ]• u}Œ šZ v Z•
Ç Œ (Œ}u îîíóríô }vÁ Œ • • %Œ Œ v}š] (] š]}v v}X îîîîîr v š Œ o š Æ Á X X (X
/EZ v YZ } }v š Æ]vÁ]] }Œ o Œ š]}v Ç Á v }Œ I }v š Œ š}Œ](š μŒ v}Á
îîíóríô }vÁ Œ •]• o •• šZ v Z•X ñ Œ}Œ•X

ïX /v • šZ Á v }Œ I }v š Œ š}Œ o Ç• }Œ (]o• š }%Œ}Á] oo šZ } μu v
}Œ Œ š šZ š]u } (•μ u]šš]vP š Æ]vÁ]] š } , >U vÇ •μ • {μ v š (]v v] o o
}v š Œ š}Œ •Z oo š} Á v }Œ -• I }v š Œ š}Œ -• }μ v š X , > Z • (μŒ šZ Œ Œ
]v š Œ •š š šZ š]u } (Œ o • } (%Œ Ç u v š X

ïX tZ Œ v I 'μ Œ v š v /v uv]šÇ }v o μ• Œ v}š %Œ š Ç Á v }Œ U
Á v }Œ•X

íñX /v šZ Á v š } (, > oo]vP ()Œ •μ%Œ%o u v š ŒÇ] U šZ W Œ š r// %Œ]
v •• ŒÇ• Á]oo }%Œ v š o š Œ š } ()v o Ç šZ}•] Œ• ÁZ} Z Á {μ o} (
W Œ š //] o}vP Á]šZ •μ%Œ%o u v š ŒÇ %Œ]] ~] (v •• ŒÇ• Á]oo]v š]u
/] X

íòX] •Z}μo (Œ (Œ}u }Œ Œ š]}vU }Á Œ Á Œ]š]vPU μ•]vP }Œ Œ š]Á (o
}Œ }Á Œ Á Œ]š]vP •Z oo Á o] }v o Ç] (šZ Ç Œ š š •š μv Œ (μoo •]Pv š μŒ
o] o ()Œ Œ I š]}vX

íÓX dZ u š Œ] o]••μ š } •μ r }všŒ š}Œ • (Œ]••μ u š Œ] o (}Œ u Z]v] }%Œ Œ š}}v• •Z oo Œ u]v šZ %Œ}%Œ Œ šÇ } (, >U , Œ Á ŒX dZ •μ r }všŒ š } }všŒ š v (}Œ v} }šZ Œ %μŒ}%• ÁZ š•} Á ŒX dZ •μ r }všŒ š}Œ •Z oo u š Œ] o (Œ}u ÁZ š•} Á Œ μ• Z %Œ%Œ v]vP ÁZ]o •μ Z u š Œ] o]•]v šZ %Œ• }všŒ š}ŒX oo šZ u š Œ] o• } (, >U , Œ] Á Œ •Z oo μv Œ v}]Œ μu•š v o v]vP]v•š]šμš}}v }Œ š } vÇ W Œ šÇ ÁZ š•} Á ŒX /š •Z}μo v}š o•} •Z}Áv •š š u v š•} (•μ r }všŒ š}Œ š } vÇ %Œ Œ šÇX dZ •μ r }všŒ š}Œ •Z oo %Œ} μ •μ%Œ%Œ o] š } šZ u š } , > } ([] o• Á]•š}vP šZ •μ r }všŒ š}Œ [• μv]š (}Œ Á Œ Œ •μ r }všŒ š}Œ (]o• š } %Œ} μ }Œ %Œ}%Œ Œ oÇ } μvš (}Œ šZ u š Œ] o• }] u (]š]v o μ]vP šZ Œ }Á ŒÇ } (šZ Á o μ } (u š Œ] o • %Œ Œ , > v }Œ u• v •Z •μ r }všŒ š}Œ [• v l'μ Œ v š l /v uv]šÇ }v ~/•X

íÔX š}}v P]v•š] Œ• l Á v }Œ l •μ%Œ%Œ o] Œ l }všŒ š}Œ]v • } ((μo /v }Œ Œ š } %Œ}š š šZ }uu Œ] o]vš Œ •š•} (, >U , > •Z oo š P]v•š } (μ•]v •• o]vP•U ÁZ] šZ Œ (]o š } %Œ (}Œ u }Œ Œ]v (μoš Á]šZ}μš u]v Ç l Œ %μš š}}vU]v μoP]v u o%Œ Œ š] •U Z š]vPU Œ] ŒÇU (Œ μ }Œ • š }]v(oμ v šZ]]vP %Œ} •• }Œ]v(oμ v šZ %Œ] š X ^μ•%Œ v•}}v } (μ•]v •• o]vP• }μo]v šZ (}Œ u } (^,}o _ }Œ ^ vv]vP_ •μ • %Œ Œ ^'μ] o]v • (}Œ ^μ•%Œ v•}}v } (μ•]v •• o]vP• Á]šZ ^μ%Œ%Œ o] Œ•l }v ^Zšš%Œ•WIIÁÁÁX Z oX }u]Pμ] o]v •r•μ•%Œ v•}}vr μ•]v ••r o]vP•r•μ%Œ%Œ o] Œ• }v

íÕX dZ } ((Œ• } (šZ] Œ• ÁZ } Œ μv Œ •μ•%Œ v•}}v }Œ Œ μv Œ Z } o ~ , > }v š } (}%Œ v]vP } (W Œ š í] • o• } šZ } ((Œ• } (šZ] Œ• ÁZ } vP l Œ}•• , >U •Z oo Œ i š X dZ o]•š } ((}Œ u• Œ Œ ÁÁŒX•Z > }]• Á]o

íXì /vš PŒ]šÇ }uu]šu všU %Œ (}Œ u v } (šZ }všŒ š v %μv]š]Á š}}v š íXíX }uu]šu vš Ç , >W , > }uu]š• š } š l oo u •μŒ • v •• ŒÇ š } %Œ Á v š }Œ Œ μ%Œ š}}v]v }v v š Æ μš}}v } (šZ }všŒ šX , > Á]oo μŒ]vP šZ š v Œ %Œ} •• šŒ š oo] Á]šZ (μ]šÇX

íXîX }uu]šu vš Ç] Œ l ^μ%Œ%Œ o] Œ l }všŒ š}Œ W íXîXíX dZ] Œ l •μ%Œ%Œ o] Œ l }všŒ š}Œ }uu]š š } š l oo u •μŒ • š } %Œ /]v]Œ š oÇ]v(oμ v vÇ]•}}v }Œ v (]š ÁZ] Z Z]• v}š o P ooÇ vš]šo š š vš u}μvš š } v } ((v %μv]•Z o μv Œ vÇ %Œ}Á]•}}v } (šZ /v] v W v o /v] X

íXîXíX dZ] Œ l •μ%Œ%Œ o] Œ l }všŒ š}Œ Á]ooU ÁZ v %Œ • vš]vP Z]•] U] }uu]šš š }Œ]vš v • š } u l š } P vš•U Œ}l Œ• }Œ vÇ }šZ Œ]vš Œ u]Œ]všŒ š v •Z oo Z Œ š }Œ o Á v š Pμ] o]v •]••μ (Œ}u š]u š } š]u Ç ' íXîXíX dZ] Œ l •μ%Œ%Œ o] Œ l }všŒ š}Œ Á]oo %Œ (}Œ u l Æ μš šZ }všŒ Á]oo v}š (μoš Á]šZ}μš vÇ Œ •}v o μ• U ÁZ] Z μ• • o•• } (μ•]v ••l u]

(/vÇ] Œ l •μ%Œ%Œ o] Œ l }všŒ š}Œ μŒ]vP %Œ r š v Œ]vP l š v Œ]vP l %Œ• •š P]v μoP •]v u o%Œ Œ š] •U Z š]vPU Œ] ŒÇU (Œ μ }Œ v }šZ Œ u]•]v(oμ v šZ]]vP %Œ} •• }Œ]v(oμ v šZ %Œ] }Œ š• }Œ }u]š•]v vÇ %μv]•Z o μv Œ vÇ %Œ}Á]•}}v } (šZ /v] v W v o } U íôòì }Œ vÇ }šZ Œ š l v P]v•š •μ Z] Œ l •μ%Œ%Œ o] Œ l }všŒ š}Œ • %Œ Œ Æ š v š Pμ] o]v • } (v l }Œ μv Œ %Œ%Œ o] o o P o %Œ}Á]•}}v•_X

îîX ^%Œ o]šš}vP } (š v Œ (μ v š]šÇW

X/v • } (šZŒ }Œ u}Œ š Zv}r }uu Œ] ooÇ (μ o] ([] } ((Œ•]v šZ š u v š}}v o}ÁW íX/v • > í Á v }Œ]• D ^ W /X Yμ v š]šÇ •Z oo]•šŒ] μš šÁ v šÁ} Á v }Œ•]v šZ Œ š}} } (îWí~ //X , > •Z oo P]Á }μvš Œ } ((Œ š } }šZ Œ šZ v > í Á v }Œ•X /v • } (v}vr (μ v š]šÇ •Z oo } ((Œ š } > í v • } }vX ///X }Á]•šŒ] μš}}v]••μ i š š } %š v } (> í Œ š • Ç šZ }šZ Œ o

/sX /v • } (v } vr %š v } (} μ v š Œ } ((Œ Ç v Ç À v } Œ (š Œ } À %
 Á } μ o } Œ Œ š } > í À v } Œ X

îX /v • > í À v } Œ] • v } vr D ^ v D ^] Œ • (oo •] v š Z Œ v P } (> í = í
 /X ^ % o] š š Œ š } } < š Ç • • %] (] v o μ • í ~ • } À U Á] oo } μ v š Œ
 } (> í = í ñ 9 X /v • } (] v Œ • l Œ •] v < μ v š } š Ç U š Z] • š Œ] μ š } } v • Z
 } Œ] v P o Ç X

//X / (u } Œ š Z v } v D ^] Œ (oo •] v š Z > í = í ñ 9 % Œ] v š Z v ^ % o] š
 } À Á] oo (] Œ • š } ((Œ š } o } Á • š o] P] o D ^] Œ ~ } v š Z •] • }
 % š v } (} μ v š Œ } ((Œ Ç o } Á • š o] P] o] Œ U v Æ š o } Á • š o] P
 v • } } v š } oo o] P] o D ^] Œ • (oo] v P] v š Z > í = í ñ 9 % Œ] v X

///X } À] • š Œ] μ š } } v] • • μ i š š } % š v } (> í Œ š • Ç š Z } š Z Œ o
 /sX /v • } (v } vr %š v } (} μ v š Œ } ((Œ Ç v Ç o] P] o D ^ À v } Œ š Z
 À v } Œ • • • %] (] v o μ • í X

sX /v • } (v } vr %š v } (} μ v š Œ } ((Œ Ç v Ç À v } Œ (š Œ } À
 < μ v š } š Ç Á } μ o } Œ Œ š } > í À v } Œ X

ïX /v • > í ~ > î } š Z À v } Œ • Œ v } vr D ^ v D ^] Œ • (oo •] v š Z Œ
 /X ^ % o] š š Œ š } } < š Ç • • %] (] v o μ • í ~ • } À Á] oo } ((Œ š } D
 } v > í À v } Œ •] • š Œ] μ š } } v] • (] Æ ~ î W í • X E } Y š Ç Á] oo } ((Œ š }
 //X / (u } Œ š Z v } v D ^] Œ (oo •] v š Z > í = í ñ 9 % Œ] v š Z v ^ % o] š
 } À Á] oo (] Œ • š } ((Œ š } o } Á • š o] P] o D ^] Œ ~ } v š Z •] • }
 % š v } (} μ v š Œ } ((Œ Ç o } Á • š o] P] o] Œ U v Æ š o } Á • š o] P
 v • } } v š } oo o] P] o D ^] Œ • (oo] v P] v š Z > í = í ñ 9 % Œ] v X

///X } À] • š Œ] μ š } } v] • • μ i š š } % š v } (> í Œ š • Ç š Z } š Z Œ o
 /sX /v • } (v } vr %š v } (} μ v š Œ } ((Œ Ç v Ç o] P] o D ^ š Z v]
 À v } Œ • • • %] (] v o μ • í X

sX /v • } (v } vr %š v } (} μ v š Œ } ((Œ Ç v Ç À v } Œ (š Œ } À %
 Á } μ o } Œ Œ š } > í À v } Œ X

X /v • } (} v o Ç š Á } š Z v } r } u u Œ] o o Ç < μ o] (] } ((Œ •] v š Z š v Œ U š
 /v • } (v Ç Z v P] v • % o] š š } v P Œ] š Œ] U š Z] • } } v • Z oo] v (} Œ U
] } % v] v P X

X /v • } (} v o Ç š Á } š Z v } r } u u Œ] o o Ç < μ o] (] } ((Œ •] v š Z š v Œ U š
 /v • } (v Ç Z v P] v • % o] š š } v P Œ] š Œ] U š Z] • } } v • Z oo] v (} Œ U
] } % v] v P X

d / > ^ K & ^ W > / dd / E ' W

^ o X E } X	Z t / E ' E } X	/ d D ^ Z / B K d X K E	d K d Y d z ~] v s v } Œ	Y š Ç } s v } Œ	} v > î
í	í ó ô î ï î í ô í î ò ï	Z D U y d Z d K Z U > & d	đ ñ	ò ô	î ï
î	í ó ô î ï î í ô í î ó ï	Z D y d Z d K Z U Z / ' , d	đ í	ò í	î í

, Z d , sz > dZ/ >^ >/D/d , Z/ t ZrîðððîïX

μÇ Œ] ^%o](]]š}}v o d Œu• ~ }v]š}}v• ~ d • d v Œ
 Z (Œ v E}W ylòñòilîîîñlííóóí'lí

E}š W dZ]• vv ÆμŒ Z • š} u v š}Œ]oÇ (]oo ~ •]Pv Ç šZ] Œ v •μ u]šš

vÇ Á] š}}v š} šZ o}Á u v š}}v š Œu• •Z oo •š š •%o](] ooÇ]v šZ ^&}Œu š (š} }μŒ š Œu•U]š Á]oo }v•šŒμ šZ š šZ ÁZ}o š Œu]• μv Œ•š}} v PŒ]v š} u v š}}v•X

<p>^o E}</p>	<p>, > Z <μ]Œ u v š•</p>	<p>^μ%o%o] Œ %š v l }uu v š•</p>
<p>ii</p>	<p>Yμ o]šÇ Z <μ]Œ u v š•W</p> <p>• &}Œ KEs Ed/KE > 'hE ~t}Œl KŒ Œ•W òîîóí ðóííí ~ òîîóð ðóííí•</p> <p>íX ^μ r}všŒ š}Œ š} %o Œ({Œu oo š •š• ~ Z l• • %o Œ }Œ Œ]vP Œ Á]vP ~ •š v (</p> <p>%o Œ šZ • }%o u v š}}v]v WK•X</p> <p>íX /v•%o š}}v Ç , > v μ•š}u Œ • %o Œ Œ Á]vP l ^š v Œ l š •Z š l WμŒ Z •</p> <p>%o o v Œ <μ]Œ u v š• u v š}}v o}Á PŒ}μ%o Á]• ~ • %o%o] o •W</p>	<p>6&23(2) :25. D 9(1'25 6&23(2) :25. L \$)25 ,7(0 12 21/< 0\$&+,1,1* \$6 \$33/,&\$%/(,6 72 %('21(%< 7+(9(1'25 \$6 3(5 5\$:,1* \$1' ,76 7(&+1,&\$ / 5(48,5(0(176 L %)25 ,7(0 12 &203/(7(0\$&+,1,1* ,1'8&7,21 +\$5'(1,1* ,+ \$1' &2\$7,1* \$6 \$33/,&\$%/(,6 72 %('21(%< 7+(9(1'25 \$6 3(5 '5\$:,1* \$1' ,76 7(&+1,&\$ / 5(48,5(0(176 LL \$// 7<3(2) &2\$7,1*6 21 7+(,7(06)25 :+,& &2\$7,1* ,6 ,1 9(1'25 6 6&23(6+\$// %('21(%< 9(1'25 (;&(37 3\$66,9\$7,21 56 \$1' \$//2'<1(75(\$70(17 56)520 %+(/ \$33529(' 6285&(6 56 \$1' 56 &2\$7,1*6 \$5(,1 %+(/ 6 6&23(\$// 5\$: 0\$7(5\$, / 6+\$// % (6833/,(' %< %+(/ ,7(06 2) 7+((148,5< \$5(,1'(3(1'(17/< 86(\$%/(7+(5(48,5(0(17 ,6 ',9,6,%/(,1'8&7,21 +\$5'(1,1* ,+ D 7+(,7(0)25 :+,&+ ,+ ,6 \$33/,&\$%/(21(7(67 6\$03/(3(5 /27 ,6 72 % (0\$18)\$&785(' %< 9(1'25 E)25 7(67 6\$03/(5\$: 0\$7(5\$, / 6+\$// % (3529,(' %< %+(/ F 9(1'25 6+\$// 6(1' 7(67 5(3257 \$/21* :,7+ 7+(7(67 6\$03/((\$)7(5 ,+)25 \$33529\$/ \$7 %+(/ G 6\$03/(: ,// % (7(67(' \$7 %+(/ /\$% 21/< \$)7(5 \$&&(37\$1&(%< %+(/ 4& 9(1'25 6+\$// 3(5)250 ,+ 21 \$&78\$/ ,7(0 H 9(1'25 ,6 5(48,5(' 72 6(1' 7+(\$&78\$/ ,7(0 21 :+,&+ ,+ +\$6 %((1 '21(72 %+(/)25 5(3(\$7 7(67,1* 35,25 72 \$66(0% /< I 21((;75\$ 3,(&()520 /27 6833/,(' 0\$< % (5\$1'20/< 6(/(&7(')25 '(6758&7,9(7(67,1*)25 (1685,1* +\$5'(66 21 \$&78\$/ ,7(0)55286 6&5\$3 72 % (5(7\$,1(' %< 7+(9(1'25 \$1' 121)55286 6&5\$3 72 % (5(7851(' 72 %+(/ \$6 3(5 5()5 5\$: 0\$7(5\$, / \$11(;85(; 6+((7 EKd W >d ZE d/s WZK ^^ &KZ W> d/E' ^W òðóìðìð /^ > dZK>zd/ •/E K E/ <> ìïX</p>

	<p>~ • / v š] ([š] } v v š Ć [o] š } v š Ć š } Ć v • u š } , >] v • % (} Ć] • % š Z X E } š í X Z % š Z Ć v • • š • š ~ DW / š • š ~ • % % o] o • š } Ć Ć] } μ š š , > D Z > >] v • % š] } v š } Y r ^ μ } v š Ć š] v P (} Ć Ā Ć Ć } u % } v v š] v Ā Z] Z Z Ć v] v P] • Ć (μ] Ć v • μ Ć Ć Y r (v X î X s v } Ć l • μ r } v š Ć š } Ć Z • š } u } v • š Ć š } u v •] } v o Z l] v P • % Ć Ć Ā] v P • U Ā v } Ć l • μ r } v š Ć š } Ć] • v } š Z Ā] v P (μ š] v • š Ć μ u v š • l ([o] š Ć š } u } v • Ć % } Ć š š } (μ Ć v] • Z X</p> <p>E } š W / E d , Z t / E ' & K Z D d y y y y y y y y y y y U & / d , ~ ^ / y d , / ' / d d K ' d , Z & Z K D d , d , ' Z K h W K & / d D ^ X</p>	
iï	<p>/ E ^ W d / K E l / E ^ W d / K E ~ d ^ d / E ' , > Ć • Ć Ā • š Z Ć] P Z š š }] v • % š š Z u š Ć] o μ Ć] v P u v μ (š μ Ć] v P v o } š }] • % š Z (Ć } u š Z] Ć % Ć š Ć X d Z š • š Ć • μ o š • } (š Z] Ć r % Ć š Ć š • š • Z o o (] v o , > Ā] o o Ć • Ć Ā š Z Ć] P Z š š }] v • % š š • š š Z u š Ć] o μ Ć] v P l (š Ć u v μ (š μ Ć , > X / v • } (Ć i š] } v š v Ć • š P U š } š o } š } (u š Ć] o Ā] o o Ć } Ā Ć] v o } μ Ć } • š Ā] o o %] X s v } Ć • Z } μ o Ć] •] v • % š] } v o o (} Ć , > l d W /] v • % š] } v š o • š ě Ć •] v Ā] v • % š] } v X] (μ • š } u Ć] v • % š] } v] • v Ā] • P š Ā v } Ć [• Ā] Ć l • U Ā v } Ć • Z } μ o P Ć •] v Ā v š } š Z % o v v š } (] v • % š] } v X</p>	
ið	<p>d y ^ ~ h d / ^ W ð X í d Z ^ μ % % o] Ć l s v } Ć • Z o o % Ć o o ~ • Ā š Z • %] ([Æ o μ] } v • • v μ u Ć š o] v • U Z Ć P • U % } •] š • U μ š] • U š } o • U Ć } Ć o š Ć U } u u] • •] } v • U } š Z Ć Z Ć P • U] v % μ š P } } • ~ • Ć Ā] • } v • μ u v } μ š % μ š P } } • ~ • Ć Ā] • o] Ā Ć] v } μ Ć • } (Z š Z } v š Ć š X / v • , >] • (} Ć š } % Ć v Ć } (• μ Z š Æ • l μ š] • U , > • Z o o Z Ā (Ć } u Z] •] o o } Ć } š Z Ć Ā] • • u (] š o } v P Ā] š Z š Z % % o] o } Ā Ć Z • ð 9 Ā o μ ~] X X u } μ v š %] Ć , > = } Ā Ć Z • X , } Ā Ā Ć U % Ć } Ā] • } v • Ć P Ć] v P ^ d } v } μ š % μ š • μ % % o Ć ~ P } } • l • Ć Ā] • v d ^ d ^ • % Ć (} o o } Ā] v P o μ • X ð X î ^ d ~ } } • v ^ Ć Ā d] • Z ð Ć • W % % o] o P] v • š } μ u v š Ć Ć % Ć } } (X ð X î X í ^ d • % % o] o } v } μ š % μ š • μ % % o Ć ~ P } } • l • Ć Ā] • • Ć Æ o μ (Ć } u ^ μ % } v š Ć š } Ć [• % Ć] l Ć š • • Z o o Æ o μ] Ā } (^ d X Z] u μ Ć • u v š } (^ d] • • μ i š š Ć u • v } v] š] } v • X , > • Z o o Z Ā š Z Ć] P Z š š } v Ć % Ć u v š } (^ d v š } Ć } Ā } μ v š } (š Æ U] v š Ć • š U % v o š Ć š X (} Ć v } v r } u % o] v } (v Ć } (š Z (} o o } Ā] v P ð X î X í d Z u] • •] o] š Ć } (^ d U š Æ • v μ š] • Ć (Ć Ć] v š Z] • Z % š Ć } Ć o • Ā o] u] š š }] Ć š š Ć v • š] } v • š Ā v , > ~] š • ^ μ % % o] Ć l s v } Ć X , > • Z o o v } š } š Ć v • š] } v } š Z Ć š Z v š Z] Ć š š Ć v • š] } v š Ā v , > ~] š • ^ μ % % o] Ć l s v } Ć X ð X î X î ^ μ % % o] Ć l s v } Ć • Z o o } š] v % Ć } } Ć Ā Ć] š š v } v • v š } (, > (} Ć] o o] v P t Z Ć š Z ^ d o Ā • % Ć u] š u } Ć š Z v } v } % š] } v } Ć u š Z } } o } P Ć (} Ć] • Z Ć P] v P š , > • Z o o Z Ā š Z Ć] P Z š š } } % š š Z % % Ć } % Ć] š } v } v •] Ć] v P š Z u } μ v š } (Ć Ā o o • % Ć } μ Ć o •] u % o]] š Ć Ā] š Z Ć P Ć š } • • • u v š } (š Z o] o] š Ć X d Z } %] v] v P } v š Z } v š Ć š } Ć (} Ć] • Z Ć P] v P š Z } o] P š] } v } (, >] v Ć • % š } (š Z š ^ μ % % o] Ć l s v } Ć X ð X î X ð ^ μ % % o] Ć l s v } Ć Z • š } • μ u] š ^ d Ć P] • š Ć š] } v Ć š] ([š } (š Z } v Ć v v • š } v • μ Ć š Z š š Z • μ u] š š ^ d Ć P] • š Ć š] } v Ć š] ([š • Z } μ o] v š] Ā • š } v š Ć š % Ć] } X</p>	

ðXîXñ ^μ%o] œls v }œ Z • š }•μ /vÀ}} l]š E}š l œ]š E}š]v] š]vP ,^E l^
Z š U %o] o š Æ v }šZ œ % œš] μo œ •]v }u%o] v Á]šZ šZ %œ}Á]•}}v• }(
šZ œ μv œX

ðXîXò ^μ%o] œls v }œ Z • š }•μ u]š '^d }u%o] v š]vÀ}} Á]šZ]v šZ μ š } (]v
{ o ÇU , > œ • œÀ • šZ œ]PZš } (v] o } ('^d % Çu v š] (šZ œ } μœ • vÇ Z œ
]v%μš šZ œ } (X /v • } (P}} •U ^μ%o] œls v }œ Z • š } %œ}Á] • v }%Ç } (]vÀ
u}Á u v š } (P}} • š œš • š } v o , > š } u š]š • '^d œ o š }u%o] v • X ^%o] o
• } (u)všZ v šœ v • š}}v•X

ðXîXó ^μ%o] œls v }œ Z • š } v•μœ šZ š]vÀ}}]v œ • % š } (•μ Z • œÀ] • ÁZ]
%œ}Á] l]u%o š }v }œ (}œ v } (šZ u)všZ •Z}μo v}š œ šZ š o š œ šZ
u)všZ]v ÁZ] Z • œÀ] • œ %œ }œ u X

ðXîXô ^μ i š š }šZ œ %œ}Á]•}}v• } (šZ }všœ šU '^d u}μvš o]u]v šZ]vÀ}}
(μo (]ou v š } (oo šZ (}oo}Á]vP }v]š}}v• Ç šZ ^μ%o] œls v }œ W r

- ^μ%o] Ç } (P}} • v l }œ • œÀ] • Z À v œ]À Ç , > X
- Kœ]P]v o d Æ /vÀ}} Z • v • μ u]š š } , > X
- ^μ%o] œls v }œ Z • μ u]š š oo šZ } μ u v š • œ (μ]œ (}œ %œ } • • }vP } (}œ œ X
- /v • • ÁZ œ r]vÀ}}]vP %œ}Á]•}}v]• %o] o U ^μ%o] œls v }œ]• œ }u%o] v Á]šZ r]vÀ}}]vP %œ}Á]•}}v• } ('^d š v Z μo • u šZ œ μv œ X
- ^μ%o] œls v }œ Z • (]o oo šZ œ o Á v š '^d œ š μœv ~ XPX '^dZríU '^dZrí • μ u]š š v • μ u]š šZ %œ} (} (•μ Z œ š μœv o }vP Á]šZ]u] š • μ • (μ v š]vÀ}} l]ooU }všœ š }œ Z • š } • μ u]š %œ} (} (•μ Z œ š μœv Á]šZ]v (]š v œ š μœv X
- (• Z • % š]Á]vÀ}} Z • %œ]v , > ['^dZ r î (}œ šZ u }všZ }œœ • %œ }v]v v]v '^dZrí } (šZ u }všZ]v ÁZ] Z • μ Z]vÀ}} • Z • v œ %œ }œš Ç šZ }vš } (/d Á]o]o]šÇ • ^z ^ _]v '^dZrí X o š œv š]Á oÇU ' } (%œ }œ } š Á o]Á o] š o • š }v u }všZ Ç }v šZ μ š } (}v (]œ u š } } (œ o Á v š %œ }œš o }œ • μ ([] v š • μœ]šÇ]• Á]o o š } i μ • š šZ (]v v] o]u%o š]v ^μ%o] œls v }œ X
- P • ^μ%o] œls v }œ Z • š } • μ u]š v μv œš l]vP }v (]œ u]vP šZ %œ Ç u v š } (oo %œ š]v]vP š } , > X

ðXîXõ vÇ (]v v] o o }•• œ]• • š } , > }v } μvš } ((]o μœ }œ o Ç]v • μ u]•• }v } (}všœ š l %œ Z • }œ œ l Á }œ l }œ œ š šZ š]u } (• μ u]•• }v } (d Æ]vÀ}} š } , > ^μ%o] œls v }œ [•]oo }œ }šZ œÁ] • • u (]š X

ðXîXîi d ^ • %o] o μv œ '^d o Á • Z oo μ š (œ }u ^μ%o] œls v }œ [•]

ðXîXíi ^μ%o] œls v }œ • Z oo }u%o] Ç Á]šZ šZ %œ}Á]•}}v• } (r Á Ç]oo ÁZ œ Á (%œ}Á]•}}v• } ('^d š %œ u]šU oo šZ r Á Ç]oo • U œ } %œ u]š • š X œ (μ]œ (}œœ vP Ç šZ }všœ š }œ X

ðXîXíi ^μ%o] œls v }œ • Z oo • }o oÇ œ • %œ }v •] o (}œ]• Z œ P]vP Z]• '^d o]]o '^d > Á v , > Á]oo v }š v š œš]v vÇ o]u } ('^d l]v š œ • š l %œ v o š Ç }œ vÇ }šZ œ } (^μ%o] œls v }œ]v }u%o] Ç]vP šZ %œ}Á]•}}v• } ('^d > Á }œ]• Z œ P]vP šZ '^ šZ œ μv œ X

ðXîXíi /v • o œ š }v } (vÇ]vÀ}}]• o Ç Ç šZ Á v }œ]v Z]• '^d œ š μœv } u v l o š œ l o š }v '^dE %œ }œš o ÁZ] Z œ • μ o š •]v vÇ Á œ • (]v v] o]u%o] (]v v] o]u%o š šZ œ } (]v o μ]vP]v š œ • š l %œ v o š Ç • Z oo œ }Á œ (œ }u šZ ^μ%o] œls v }œ X

ðXîXíð vÇ v] o } (]v%μš œ]š š } , > }œ œ]• vP } (vÇ š Æ o]]o]šÇ }v , > μ Ç šZ ^μ%o] œls v }œ]v vÇ u v v œ U Á]oo œ }Á œ o }vP Á]šZ o]]o]šÇ }v vÇ • (œ }u šZ %œ Ç u v š • μ š } šZ ^μ%o] œls v }œ X

ðXîXîñ /v šZ À v š } (vÇ u]Pμ]šÇ]v ' ^d o Á Á]šZ Œ •% š š } Á]o]o]šÇ } (]v%
]vÁ] Œ]• Ç šZ }všŒ š}Œ }Œ Á]šZ Œ •% š š } vÇ }šZ Œ u š š Œ Z Á]vP]u%
 (]v o v]v]vP }v šZ ^μ%Œ] Œ]s v }Œ X

ðXîXîíŒ] š}v]v d Æ • ~ μš] •W
 vÇ μ%Á Œ Á Œ] š}v]v ' ^d •Z oo }v•] Œ ()Œ Œ]u μŒ• u v š %Œ}Á] •μ%Œ
 u Á]šZ]v • Z μ o š •š]μ o š]v šZ }všŒ š }Œ %Œ}Á Æ š v • Z μ o
 š š Œ] μ š o š } , > X , }Á Á Œ }Á v Á Œ Á Œ] š}v •Z oo •μ i š š } i μ•š u v š •%
 /v • šZ ' Á Œ v u v š]u%•• vÇ v Á o Á Ç]š Æ }v šZ }μ š μ š • Œ Á] P } } • (š Œ
 •Z oo Œ]u μŒ• Ç , > š š μ o X d Z Œ]u μŒ• u v š μ v Œ š Z]• o μ •]• Œ •š Œ
 š Á v , > v]š• ^μ%Œ] Œ]s v }Œ }v o Ç v Á]šZ]v šZ }všŒ š μ o o]Á Œ Ç %Œ
 /v • vÇ v Á š Æ]o Á Ç]μ š Ç š X }u • %Œ] o (š Œ š Z š } (] Œ [•] (Œ
 %Œ]] U š Z] Œ] ^μ%Œ] Œ]s v }Œ u μ•š }v Á Ç]š•]u% š }v Z]• %Œ] μ o Ç
 Á] v]v •μ%Œ] Œ š } (š Z • u ()Œ %Œ v]vP } (%Œ]] X o]u ()Œ vÇ • μ Z]u%
] Á]o o v }š }v•] Œ Ç , > ()Œ Œ]u μŒ• u v š } (š Æ }Œ Œ ••• u v š } () (Œ

ðXî /v }u d Æ W

d ^d ^ • %Œ] o μ v Œ /v }u d Æ š U í ð ò i }Œ Œ μ o • u š Z Œ μ v Œ •Z oo
 ^μ%Œ] Œ]s v }Œ [•]o o X

ðXð ^μ%Œ] Œ , ^E } ~ %Œ] o ' ^d 9 ~d } (]o o Ç ^μ%Œ] Œ •

D š Œ] o •Z }μ o }u] Á]šZ]v }v Ç Œ %Œ]•]š]Á o Ç (Œ }u š Z š } (Z oo v P]v•
 š }•μ r }všŒ š }Œ X /v • u š Œ] o]• v }š Œ š μ Œ v Á]šZ]v í i u }v š Z • %Œ] } U %Œ]
 š Z š } (Z oo v •Z oo }u %Œ] o }v Æ %Œ]Œ Ç } (}v r Ç Œ %Œ] } v š Z %Œ]
]š (Œ }u •μ r }všŒ Œ š }Œ }μ v š

iñ W zD Ed d ZD ^W

•W Ç u v š W

ð i 9 %Œ Ç u v š Á]o o }v (š Œ Œ]%š v %š v } (]š u •]v , W U , > U , Œ] Á
 %Œ Ç u v š Á]o o }v (š Œ (]v o }μ v š o } (u š Œ] o • ~]X X ^ Œ %Œ }μ v š o • X μ Œ
 Z μ %Œ • X Y μ]š š }v }v š]v]vP %Œ Ç u v š š Œ }š Z Œ š Z v }Á U]• o] o š } Œ i š

dZ %Œ Ç u v š •Z oo u Á]šZ]v v }X } (Ç •• (]v]v š Z o }Á š o (Œ }u %Œ] } (Œ

dÇ%Œ } (	t]šZ]v E μ u Ç
D] Œ } ~ ^ u o o v š Œ	ð ñ
D] μ u v š Œ %Œ] ••	ò i Ç •
E }v D ^ D	ò i Ç •

%Œ] }v š Ç u v •
 — dZ Ç } (o]Á Œ Ç } (u š Œ] o]X X r E }š š U •μ i š š }•μ u]••}v } (v }v r]• Œ
 • %Œ Œ W μ Œ Z • K Œ Œ X }Œ
 — tZ Œ š Z Œ]• v Ç } i š }v Œ P Œ]vP %š v } (P } }•U š Z • u •Z oo]v ()
 (] (š v Ç • (Œ }u š Z Ç } (š Z o]Á Œ Ç } (P } } X %Œ] }v š Ç Á]o o š Z Ç }v
 Œ u }Á Ç š Z •μ%Œ] Œ X
 , }Á Á Œ U ' ^d u }μ v š •Z oo Œ]u μŒ•]v o]v Á]šZ }u%Œ] v š } o X E }X ð ~d Æ

•EK /Ed Z ^d W z > dK KEdZ dKZ
 E]v š Œ •š •Z oo %Œ] o }v š Z • μŒ]šÇ %Œ]•]š }Œ vÇ }š Z Œ u }v Ç μ š }š Z

iò s o]]š Ç W
 s o]]š Ç } (š Z } (Œ •Z }μ i o Ç •Œ] u] Œ μ u Œ }%Œ v]vP š X

iĉ	<p>^μ u]••}}v }(vl 'μ Ć v š v /v uv]šÇ }v iĉ vl 'μ Ć v š ~ '• v ōi9 /v uv]šÇ }v ~/ • Z•K&KEdZ dU Z D / ^ E %oĆ • Ć] (}Ću š •Z}μo •μ u]šš X t]šZ}μš •μ u]••}}v }(vl 'μ Ć v š v /v u •Z oo v]š Z v }Ā Ć š } Ā v }ĆX ~dZ Ā oμ }(vl 'μ Ć v š v /v uv]šÇ }v] (μ vš]š} •)(oo]š u •)(šZ v (μ Ć Ç X dZ Ā v }Ć Z • š } •μ u]š šZ vl 'μ Ć v š Ā oμ)(]š u (μ vš]š} •)••μ l}Ć Ć }v Z]uU ĀZ] Z Ā]oo }uμv] š š } Ā v }Ć %o u v š)(}Ć Ć•X , > Ć • ĆĀ • šZ Ć]PZš š } • l (}Ć šZ vl 'μ Ć v š v /v u}μvš %o v]vP μ%o}v šZ u š Ć] o Ā]o]o]šÇ Ā]šZ šZ ^h r KEdZ dKZ (Ć}u š]u</p>	
iô	<p>>/s ZzW t]šZ}öi Ç(Ć]%o š)(u š Ć] o • (Ć}u , > , Ć] Ā Ć š Ā v }Ć[• Ā}Ćl•X EKd W /(šZ o]Ā Ć Ç)(•μ%o%oÇ • š]o }Ā P š • o Ç Ç}v šZ o]Ā Ć Ç %o Ć] } Ć (μ •š)(Ć o]Ā Ć Ç Ā š v•}v v , > š]š •]• Ć š}v u Ç Ā š v šZ }všĆ š Ā š v•}v]• PĆ v š š } šZ ^μ%o%o] Ćl s v }Ć (}Ć }u%o š}v)(•μ%o%oÇ U μ š } ^μ%o%o] Ćl s v }ĆU šZ v]š •Z oo Ā]šZ}μš %oĆ iμ] š } šZ Ć]PZš •)(, > š }u%o š } šZ ^μ%o%o] Ćl s v }ĆX</p>	
iö	<p>dZ E^WKZd d/KEW XdĆ v•%o}Ć š š}v }(WWD/s u š Ć] o ~ , > Z Ā D š Ć] o • š } s v }Ć Ā}Ćl•W Ç , > }v (Ć]PZš %o] •}•X X o]Ā Ć Ç W o]Ā Ć Ç)((]v]•Z]š u l }u%o}v &K Z Ç Ā } }Ć Ć] o Ā Ć • }•X &}Ć v Ç]v š Ć u] š }%o Ć š }v • v Ć %o š š •š}v P U }•š)(šĆ v•%o}Ć š š}v dK v s v }ĆX</p>	
ii	<p>Z , K& KEdZ dU Z D / ^ E iĉXidZ (}oo}Ā]vP •Z oo u}μvš š } Ć Z)(}všĆ š W /X E}vr•μ%o%oÇ)(u š Ć] ol v}vr }u%o š}v)(Ā}Ćl Ç šZ ^μ%o%o] Ćl s v } o]Ā Ć Ç l }u%o š}v %o Ć] } • %o Ć }všĆ š }Ć • Ā š v (Ć}u š]u š } //X dZ ^μ%o%o] Ćl s v }Ć (]o • š } %o Ć (}Ću • %o Ć šZ š]Ā]šÇ • Z μo v Ć •}v• Ā v (}Ć Ā %o]Ć Ç)(šZ o]Ā Ć Ç l }u%o š}v %o Ć] } š } iμ•š (}]v}Ć]v š o Ç o Ç Ç}v }všĆ š μ o o]Ā Ć Ç l }u%o š}v %o Ć] } ///X dZ ^μ%o%o] Ćl s v }Ć o]Ā Ć • (μ]u v š l u š Ć] o v}š)(šZ }všĆ š /sX dZ ^μ%o%o] Ćl s v }Ć (]o • š } Ć %o šZ (š]Ā (μ]u v š l u š Ć] o v}š } Pμ Ć v š o μ • X sX t]šZ Ć Ā o (Ć}u }Ć v }vu v š)(šZ Ā}Ćl Ç šZ ^μ%o%o] Ćl s v }Ć (} }všĆ š X s/X ••]Pvu v š U šĆ v•(Ć U •μ o šš]vP)(}všĆ š Ç šZ ^μ%o%o] Ćl s v }Ć %o Ć u]••}}v Ć •μoš]vP]v š Ć u]v š}v)(}všĆ š }Ć %o Ć š šZ Ć)(Ç , s//X E}vr }u%o] v š } v Ç }všĆ š μ o }v]š}v }Ć v Ç }šZ Ć (μoš ^μ%o%o] Ćl s v }ĆX s///X v Ç }šZ Ć Ć •}v~•• ššĆ] μš o š } s v }Ć š}Ā Ć • (]o u Ć)(%o Ć (}Ću Ć Z)(}všĆ š U , > •Z oo Z Ā šZ Ć]PZš š } š Ć u]v š šZ WμĆ Z • ĀZ}o }Ć]v %o Ć š šZ Ć)(Ā]šZ}μš v Ç }u%o v • š}v š } šZ ^μ%o%o] Ćl s v } /yX v Ç)(šZ o Ć š}v• (μĆv]•Z Ç šZ }všĆ š }Ć š šZ š]u)(]]vP šZ }všĆ š (}Ć •μ%o%oÇ Ć (}μv μvšĆ μšZ (μo v •μ Z o Ć š}v • Ā Z Ā Ć •μoš]v }vr Ā Ć)(}všĆ š š }šZ }všĆ š }Ć }Ć }μo Ā %o • Ā Ć • }v• (μ v • U (]v v] o }Ć }šZ Ć Ā]• X yX ^μ%o%o] Ćl s v }Ć]• }vĀ] š)(v Ç)((v]vĀ}oĀ]vP }Ć Ć μ%o š μ]v • š]Ā]š} • }Ć v Ç •μ Z)((v šZ š }u%oĆ]u] • • šZ μ]v •• šZ])(, ></p>	

/vš PŮ]šÇ W š vš Ů]vš} Á]šZ , > Z • šZ %}š vš]
KÁv ŮX

E]š r Kv , > }v•] Ů• šZ š Ů Z }(}všŮ š Z • } μŮŮ }v šZ % Ůš } (^μ%
v)š](Ç šZ ^μ%ŮŮ] Ůls v }Ů Ç Á Ç)(v)š]]v šZ]• Ů P Ů X }všŮ š}Ů • Z oo
Ů • }v• μ•]vP šZ Ů Z }(}všŮ š Á]šZ]v % Ů] } (íð Ç•X
/v • šZ }všŮ š}Ů (]o• š} Ů u Ç šZ Ů ZU • u vš]}v]v šZ v)š] U š} šZ
• Z oo Z Á šZ Ů]PZš š} š l Ů }μŮ• š} vÇ }(šZ Ů u] o š]}v • Á]o o š}]š
}všŮ šX
íiXí Z u] •]v • } (Ů Z)(}všŮ šX
/X tZ Ů]v šZ % Ů] } • •š]μ%o š]v šZ v)š]]•μ μv Ů o μ • íiXí Z • Ů%Ů]Ů
(]o š} Ů u Ç šZ Ů ZU , > Á]oo Z Á šZ Ů]PZš š} š Ůu]v š šZ }všŮ š }v
}všŮ š— Á]šZ}μš vÇ (μŮšZ Ů v)š] š } }všŮ š}ŮX

//X h%}v š Ůu]v š]}v }(}všŮ šU , > • Z oo vš]šo š Ů }Á Ů v u}μvš <μ]Á
s om (}Ů šZ u P • }v }μvš)(Ů Z)(}všŮ š }uu]šš Ç šZ ^μ%ŮŮ] Ůls v
Ů }Á Ů Ç Á Ç)(v • Z]vP šZ • μŮ]šÇ]v•šŮμv vš• o]l % Ů (}Ů u v vl Pμ Ů
P]v•š šZ •] }všŮ šX /v • šZ Á om)(šZ • μŮ]šÇ]v•šŮμv vš• Á]o o]•
Á om U šZ o v u}μvš • Z oo Ů }Á Ů (Ů u }šZ Ů (]v v] o Ů u] • ~]X X Á
^μ%ŮŮ] Ůls v }Ů U Ů š vš]}v u}μvšU (Ů u šZ u }v Ç μ š} šZ ^μ%ŮŮ] Ůls v }Ů
o P o Ů u] • • Z oo %μŮ•μ X

///X ÁZ Ů Á Ů šZ Á om } (• μŮ]šÇ]v•šŮμv vš• o]l % Ů (}Ů u v vl Pμ Ů vš
•] }všŮ š]• íi9)(šZ }všŮ š Á om }Ů u}Ů U • μ Z • μŮ]šÇ]v•šŮμv vš• š} š
Á]oo v • Z X /v • v} • μŮ]šÇ]v•šŮμv vš• Ů Á]o o }Ů šZ Á om)(šZ •
o • šZ v íi9)(šZ }všŮ š Á om U šZ íi9)(šZ }všŮ š Á om }Ů šZ o v u}
Ů }Á Ů]v oo }Ů vÇ)(šZ (}oo}Á]vP u v v Ů•W

/sX /v • šZ u}μvš Ů }Á Ů μv Ů • μ o μ • ~ • }Á]• v)š • μ ((] v š š} (μo(]o
šZ vV u v v)š] š} %}•]š šZ o v u}μvš Á]šZ]v íi Ç • Z oo]•μ š} ^μ

sX /(^μ%ŮŮ] Ůls v }Ů (]o• š} %}•]š šZ o v u}μvš Á]šZ]v šZ % Ů] } • % Ů
(}oo}Á]vP š]}v • Z oo š l v (}Ů Ů }Á Ů Ç)(šZ o v u}μvšW
• (Ů u μ • Á]o o]v šZ (}Ů u)(]oo• % Ç o š} (μoš ^μ%ŮŮ] Ůls v }Ů P
• /(]š]• v)š %}•]o š} Ů }Á Ů šZ μ • Á]o o (Ů u šZ • u }všŮ š }Ů μ •
Ů }Á Ů o u}μvšU o v u}μvš • Z oo Ů }Á Ů (Ů u vÇ u }v Ç ~•• % Ç o
vÇ }všŮ š Á]šZ }šZ Ů hv]š•)(, >]v om]vP Ů }Á Ů Ç (Ů u • μŮ]šÇ %}•]š
]v šZ (}Ů u)(• μŮ]šÇ]v•šŮμv vš•)(vÇ]v P]v•š ^ μŮ]šÇ %}•]š }Ů D X
s/X /vr • Ů }Á Ů]• Ů v)š %}•]o Á]šZ vÇ)(šZ }Á Á]o o }%š]}v•U > l
Ů }Á Ů Ç P]v•š (μoš • μ%ŮŮ] Ůls v }Ů

s//X /š]• v P Ů š Ů u)(}všŮ š šZ š šZ]• u}μvš • Z oo P vμ]v % Ů r • š]u
]v μŮ]v }u%o š]}v }(o v }všŮ š μ o }o]P š]}v)(šZ }všŮ š šZ Ů}μPZ vÇ
Ů <μ]Ů š} (μŮv]•Z vÇ }šZ Ů Á] v š} šZ ^μ%ŮŮ] Ůls v }Ů (}Ů šZ %μŮŮ]

s///X /v]š]}v š} šZ }Á U]u%}•]š]}v)(o] <μ] š u P • U Ů u všU š Ů u]v š]}
š XU • Z oo %ŮŮ] • % Ů Ů Ů }Á]•]}v•)(šZ }všŮ šX

E]š W

dZ (μoš]vP ^μ%ŮŮ] Ůls v }Ů • Z oo v)š o]P] o (}Ů % Ů š]]% š]}v]v vÇ)(, > š} }u%o š šZ o v Á]Ů]X dZ (μoš]vP }všŮ š}Ů • Z oo u v v]v om
~ • /v • (μoš ^μ%ŮŮ] Ůls v }Ů]• šZ ^}o WŮ} % Ů] š}Ů • Z] % &]Ů u U
}Áv Ç • u ^}o WŮ} % Ů] š}Ů X
~ • /v • (μoš ^μ%ŮŮ] Ůls v }Ů]• dZ W Ů šv Ů • Z] % &]Ů u U vÇ (]
% Ů šv Ů • l • }u)(šZ • u % Ů šv Ů • V }Ů • }o % Ů } % Ů] š}Ů • Z] % (]Ů u }Áv
% Ů } % Ů] š}Ů X

íí	<p>'h Z Ed It ZZ Wdz 'µ CE vš %o CE}} ()CE ^µ%o%o d Ç } (ouvš CE ju(CEŠZ•šZ š } (CE]%oš } (CE •%o š]Á]š</p> <p>s v }CE •Z}µo •µ u]š 'µ CE vš CEš]() š o}vP Á]šZ Z •µ%o%o o Ç } ()u%o}v vš•X ()CE CE <µ]CE u vš• •%o CE , > CE Á]vP• v }šZ CE š Zv] o }v]š}}v•X /(šZ • u (µošÇ Á}CEIu v•Z]%o]v }u%o o š Á}CEI Á]šZ]v %o CE}} } (í ô D}všZ• (CE)u šZ š } (u l P}} } (]š l CE %o o l CE %o]CEI }u%o o š šZ • u (CE } ()•šX /(CE Á}CEI l CE %o Ç , >U šZ Z CEP • ()CE • u •Z oo }všCE : }µv</p>	
íî	<p>>/Yh/ d D ' W >] <µ] š u P • U ÁZ CE À CE CE (CECE µv CE šZ]• d v CEI PCE u všU • Z oo u v v]v šZ v šµCE } (%o v ošÇU ÁZ] Z šZ }všCE š}CE PCE • š} %o Ç]v šZ Á vš } (o } ()všCE š š X • šZ • u Ç X</p> <p>>] <µ] š u P • o Á] o µ%o}v šZ ^µ%o%o o] CEI s v }CE]• •µu ÁZ] Z]• PCE Ç šZ v P vµ]v %oCE r • š]u š } (u P • ÁZ] Z Á]oo •µ((CE Ç , > }v }µvš } (o Ç šZ ^µ%o%o o] CEI s v }CE X</p> <p>/(šZ ^ oo CEI ^ CEÁ] WCE}Á] CE (]o• š} o]Á CE v Ç }CE oo } (šZ ' }) • l ^ CE Á] • Á %o CE}} ~•• •%o] (] v šZ }všCE š l WKU šZ µÇ CEI , > Á]oo vš]šo š } µ š l CE ()CE šZ o ÇU µvo •• }Á CE µv CE &}CE D i µCE }v]š}}v•U ^ i Xñ9 %o CE Á l }CE CE •%o š]Á o Ç •µ%o%o o] •µ i š š u Æ]uµu } (í 9 } (šZ Á oµ } (CE •%o š]Á o Ç •µ%o%o o] • Á]oo u v šZ 'CE}•• s oµ %o Ç o š} šZ Á v }CE ~ ()CE > • P]v• š Æ • v µš] • X_</p>	
íï	<p>KCE CE Iv}Áo P u vš ~/()CE CE Á CE •W /v • }CE CE Iv}Áo P u vš Á] š Z] v š CE % Ç] Á Z • }CE CE Á]oo u š } %o š À v }CE X</p>	
íð	<p>D šZ } ((Á oµ š}}vW /š u Á]•] Á oµ š}}v }v > v }•š •]• š , > , CE Á CE X</p>	
íň	<p>K hD Ed^ Z Yh/Z &KZ />: dZ ()oo}Á]vP } µu vš• CE CE <µ]CE š } • vš Á]šZ D š CE] o]•%o š Z l]oo]vP } µ ‡ d Æ /vÁ]]]v šCE]%o o] š ~Kv }CE]P]v o v š Á} µ%o o] š • ‡ 'µ CE vš CEš]() š ‡ /v•%o š}}v Z %o}CE š ‡ '^d }u%o o] v CEš]() š]v , > %oCE • CE] ()CEu š X ‡ Zµvv]vP d oo Ç •Z š]v , > %oCE • CE] ()CEu š ‡ •• u o Ç š]o•]v , > %oCE • CE] ()CEu š ~]v • } (•• u o] •• ‡ , > Z oo v }CE]P]v o Á]šZ &µoo •µ%o%o o Ç ~WZ}š } }%o Ç Á]šZ W CEš] o •µ%o%o o ‡ r Á Ç]oo ~ • %o%o o] o • ‡ >Z l 'Z ~ • %o%o o] o •</p> <p>E K d K W > /E /EsK/ h W > K /E' d /> ^ W r & K Z ^ h W W > z K Z Z ^ W > KE /E / E ^ h W W > / Z ^ W / Z Z ^ W d /s K & d , s > h K & d , / Z l s E K Z ^ , K h > E ^ ^ Z / > z h W > K d , ^ W d , ~ /EsK/ d /> ^ KE , > / W K Z d > d , d d W ^ W l ^ h s / , X , > X / E l ^ h s / , l U W Z / K Z d K ^ W d , X >> K h D Ed ^ ^ > KE' t / d , / d / KE > K h D Ed ^ ~ / & Ez • U Dh ^ d h W > K KE d , W K Z d > X / d / ^ D E d K Z z d , d d y /EsK/ ^ t / d , E d D K h Ed ~ / E > h / E' d y ^ • y / E' Z ^ & h W > K KE d , W K Z d > Z / / d > z z ^ / ' E h ^ / E' > ^ ^ i / / d > ^ / ' E dh Z Z d / & / ~ ^ • / ^ ^ h z > / E ^ Z d / & z / E' h d , K Z / dz X ^ h D / ^ ^ / KE K & /EsK/ K h D Ed / E >> K t & K Z /EsK/ ^ t / d , E d D K h Ed ~ / E > h / E' d y ^ • Y h > d K E h W d K Z ^ & / s d , z t Z E K d / / d > z z ^ / ' E E h W > K KE d , W K Z d > d , D d Z / > t / >> E K d / E ^ / , > / E ^ E K & d , K s</p>	
íò	<p>/>> d K l ^ , / W d K W Z ^ ^ />> d } l ^ , / W d } W r 'D v š CE o ^ ^</p>	

	<p>~]• dZ] OE •Z oo %oCE}À] μv CEš l]vP (}CE šZ }CE }u%o] v š} šZ]• o μ• jv vv ÆμCE ríiX</p> <p>~]]• Z P]•šCE š]]v } (šZ] OE Á]šZ }u%o š vš μšZ}CE]šÇ •Z}μo Á o] š šZ š]u š šZ š]u } (%oš v } (šZ] •</p>	
íí	<p>^ ššo u vš }(/(vÇ]•%oμš }CE]((CE v } (vÇ l]v ÁZ š•} À CE •Z oo CE]• šÁ v , > v šZ / }(šZ }všCE š } (CE šZ %o CE (}CEu v } (šZ Á}CEl ÁZ šZ CE μCE]vP šZ %oCE}P CE •• } (v }vu vš }CE CE Z } (šZ }všCE šU]š •Z oo]v šZ (}CE•š %o CE (CECE š } •] CE }•oμš]]v Ç šZ %o CEš]•X •]Pv š vP]v CE ~š} v]u]v š Ç , > (}CE • ššo u šZ }všCE š• ÁZ} Á]šZ]v òi Ç• (š CE]vP CE <μ•š •Z oo P]Á ÁCE]šš v v}š] } (^ Á • Z CE]v (š CE %oCE}À] U•μ Z]•]]v]v CE •%o š } (Á CEÇ u šš CE • } CE (CECE š } Ç šZ ^μ%o%o] CE]s v }CE ÁZ}•Z oo %oCE} Á]šZ šZ Á}CEl Á]šZ oo μ]o]P v CE }•oÁ šZ]•%oμš • Z CE]v (š CE %oCE}À] }CE v}šX</p> <p>/((š CE šZ •]Pv š vP]v CE Z • P]Á v ÁCE]šš v v}š] } (šZ]•]•]]v š} šZ %o CE šZ]•%oμš Z • v }uuμv] š š} Z]u Ç šZ ((š %o CEšÇ Á]šZ]v íi Ç• (CE]u šZ šZ •]]•]]v •Z oo }u (]v o v]v]vP }v šZ %o CEš]•X /v šZ Á v š šZ ^μ%o%]•• š]•(] Á]šZ vÇ •μ Z]•]]v }CE](u] o • ššo u vš vv}š CE Z šZ v oo CE }•oÁ šZCE}μPZ }v]o] š]]v]v š CEu• } (šZ , > }v]o] š]]v ^ Z u íiîô • %o CE</p>	
	<p>ííXí }v]o] š]]vW</p> <p>vÇ]•%oμš U]((CE v }CE }všCE}À CE•Ç } (ÁZ š Á CE v šμCE Z}Á•} Á CE CE]•]vP μv PCE u vš ~]v om]vP]š•]vš CE%oCE š š]]v• šÁ v šZ W CEš]•U v • }v}š] (]v ÁC }šZ CE W CEšÇ ~šZ ^]•%oμš _••Z ooU]v šZ (}CE•š]v•š v U šš u%oš š} CE • } šZ }v]o] š]]v %oCE} μCE • %o CE , > }v]o] š]]v ^ Z u íiîôX dZ %oCE}]vP } (P]Á CEv Ç W CEšr/// } (šZ CE]šCE š]]v v }v]o] š]]v š íîôô }CE vÇ •š šμš}C %oCE}À]]v t ^WCE} μCE (}CE }v μ š } (}v]o] š]]v %oCE}]vP _ ~• Á]o o]v Á</p> <p>E]š W D]v]•šCEÇ } (&]v v Z •]••μ KD CE (CE v E]X íiîîô š íiXíòXíiîô CE P CE CE]šCE š]]v v D]š]]v]v }všCE š• } (}u•š] Wμ o] WCE} μCE u všX /v šZ •] K CE }uu v šZ š '}Á CEvu vš %o CEšu vš•l vš]š]•l P v]• CE š} v }μCE P u]š]] D]š]]v šX íiîîX dZ •] š Z • v}š Ç š v v}š] (] Ç šZ ' }Á CEvu všX dZ CE (} ^^ ššo u vš } (]•%oμš • _•Z oo u } (] }CE]vPoÇ • v ÁZ v šZ D]š]]v š íi</p>	
	<p>ííXí Z /dZ d/KEW</p> <p>íiXíXí Æ %oš • %oCE}À] o• ÁZ CE]v šZ]• }všCE šU]v • W CEš]• CE μv o š ~ÁZ šZ CE Ç }v]o] š]]v š }v μ š • %oCE}À]]v o μ• íiXí Z CE]v }Á }CE }š]•%oμš }CE]((CE v V CE]•]vP }μš } (šZ (}CEu š]]vU CE ZU š CEu]v š]]vU Á o]]š šZ CE •%o š]Á CE]PZš• v o]]o]š]• } (šZ W CEš]•V }CEU]v CE o š]]v š}]vš CE%oCE }CEX]v vÇ u vv CE š}μ Z]vP μ%o]v šZ }všCE š ~Z CE]v (š CE CE (CECE š } • šZ ^ CE (CE šZ]•%oμš • š} oZ] /vš CEv š]]v o CE]šCE š]]v všCE ~ / • v • μ Z]•%oμš CE]šCE š}CE %o%o]]vš]v }CE v Á]šZ šZ Zμo • } (•] CE]šCE o /v•š]šμš]]vX</p> <p>íiXíXí %o CEšÇ Á]oo]vP š} }uu v CE]šCE š]]v %oCE}]vP •Z oo]vÁ]l CE]šCE š]] }šZ CE %o CEšÇ]v š CEu• } (• š]]v íi } (šZ CE]šCE š]]v ~ }v]o] š]]v šU íîôô ~Z CE ^E}š] _• (}CE CE (CECE]vP šZ u šš CE š} CE]šCE o]v•š]šμš]]vX dZ E}š] •Z oo hv]šU , >U Æ μš]vP šZ }všCE š v •Z oo }vš]v šZ %o CEš] μo CE } (oo o]u• •μ ([] vš š]o v •Z oo o•]v] š šZ u}v š CEÇ u}μvš } (•μ Z o]u]v oμ]vP]</p> <p>íiXíXí (š CE Æ%o]CEÇ } (íi Ç• (CE]u šZ š } (CE]%oš } ((}CE •] v}š] U šZ %o •μ u]š šZ š]•%oμš š} šZ CE]šCE o /v•š]šμš]]vr oZ] /vš CEv š]]v o CE]šCE š]]v •Z oo iμ] š]v }CE v Á]šZ šZ]CE CE •%o š]Á CE]šCE š]]v Zμo •X dZ u šš ^}o CE]šCE š}CE ÁZ}•Z oo v •• CE]oÇ Z š : μ P Z Á]vP }v•] CE o Æ%o CE]v %o%o]]vš]v]u]v š Ç šZ CE •%o š]Á]v•š]šμš]]vX dZ }•šl Æ%o v •• %o CEš]v]vP o•} P]Á CEv]v }CE v Á]šZ šZ Zμo • } (šZ CE •%o š]Á CE]šCE o /v•š]šμš]]]vÁ]l]vP šZ CE]šCE š]]v (}CE CE (CE v } (]•%oμš š} oZ] /vš CEv š]]v o CE]šCE š]]</p>	

]ÅX ^šŒ| }Œ o } |}š v}š •}o oÇ]vÀ}oÀ]vP šZ }všŒ š}Œ[• % Œ•}vv o v }šZ Œ
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v}vr% Œ(}Œu]vP % ŒšÇW • vÇ •šŒ] | U Á}Œ|rš}rŒμo š}}vU P}r•o}Á }Œ •]u}o Œ
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îiXð dZ % ŒšÇ ÁZ} Z • P]Å v •μ Z v}š] •Z oo Æ μ• (Œ}u šZ % Œ(}Œu v }Œ
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D i μŒ •Z oo v}š

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îiXò , > š]š•]• Œ š}}v u Ç }v•] Œ •Z}Œš o}•μŒ } (}všŒ š (š Œ í Ç Œ } (]
o]v Å]šZ Æš v š Pμ] o]v •X /v vÇ • U ^μ%o] Œ|s v }Œ vv}š }v•] Œ u •Z
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]Œ š oÇ }Œ]v]Œ š oÇ Œ o š š } šZ %Œ} μŒ u v š }Œ Æ μš}}v %Œ} •• } (šZ
]•]}v } (, >]Œ š oÇ }Œ]v]Œ š oÇ V
]]• dZ] Œ ~}Œ Z]• oo] (]Œu• %Œ}Å] • ŒÅ] • (}Œ šZ v ••••u v š | %Œ} μ
%Œ} ••]v ÅZ] Z]š]• %Œ š }] % š }vP V
]]]• WŒ} μŒ u v š } (P)}•]Œ š oÇ (Œ}u šZ u vμ (šμŒ Œ•|•μ%o] Œ••Z oo %
WŒ]v] % o]v•]•š• }v vP P]vP šZ • ŒÅ] • } (v P v š U •μ Z P v š •Z oo v}š oo
u v μ (šμŒ Œ•|•μ%o] Œ }Œ v šZ • u š v Œ X D }Œ }Å ŒU]šZ Œ šZ P v š }μo
(Œ}u }šZ šZ u vμ (šμŒ Œ•|•μ%o] Œ }Œ v šZ P v š U] Œ]Å (Œ}u šZ P v š •
•Z oo v}š Œ u }Œ šZ v }v μšZ}Œ]]•šŒ] μš}Œ ~Å]šZ]Œ Å]šZ}μš šZ K D • ()
u vμ (šμŒ Ç v KŒ]P]v o (μ}%u v š D vμ (šμŒ Œ ~K D •]v %Œ} μŒ u v š • μv Œ
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]Å•] Œ % Œ š }] % š •]v u }Œ šZ v }v]]v šZ]• š v Œ %Œ} ••X W Œ š }] % š }
~]v oμ]vP šZ % Œ š }] % š }v } (] Œ • % Œ š v Œ | :s u u Œ }Œ •μ r }všŒ š }Œ
u }Œ šZ v }v] •Z oo Œ •μoš]v šZ]•(μ o] (] š }v } (oo] •]v ÅZ] Z Z]• % Œ
šZ % Œ š }] % š }v } (v v š }šÇ • •μ r }všŒ š}Œ]v u }Œ šZ v }v]] (Z]• v š
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dZ] Œ o Œ • šZ š šZ Ç Z Å Œ v μv Œ•š}} šZ }Å •% š•U v šZ]
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PŒ u v š }Œ μv Œ•š v]vP U ÅZ šZ Œ (}Œu o }Œ]v (}Œu o Á]šZ }šZ Œ] Œ ••U]
% Œ š } μo Œ š } % Œ] •U •%o] (] š }v •U Œ š } (] š }v •U ^μ •] Œ Ç }všŒ š •U •μ u]
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	<p>/v • U šZ] Œ]• (}µv Z Ā]vP]v µoP]v }Ā š]Ā]š] •U šZ • u • Ā]]o š]]v }(šZ š v Œ }v]š]]v•U v •µ]š o š]]v •Z oo š l v %o}o]] •l Pµ] o]v •X</p>	
iñ	<p>&Œ µ WŒ Ā v š]]v W}o] Ç] Œ o}vP Ā]šZ]š• ••}] š l }oo }Œ š}Œ• l•µ r }všŒ š}Œ• l•µ r Ā v }Œ• l }v•µo •šŒ] šoÇ Z Œ š} , > &Œ µ WŒ Ā v š]]v W}o] Ç]•%oo Ç }v , > Ā •]š Zšš%oWl]uu] š oÇ Œ]vP š} šZ v}š] }(, > D v P u v š }µš v Ç (Œ µ }Œ •µ•%o š (Œ µ šZ]Œ v}š] X</p>	
iô	<p>^µ•%oo v•]]v }(µ•]v •• o]vP• Ā]šZ dZ }((Œ• } (šZ] Œ• ĀZ } Œ µv Œ •µ•%oo v•]]v • o•} šZ }((Œ• } (šZ] Œ• } (šZ v v (]Œu• l %oŒ]v]%oo o l P v š•U •Z oo Œ i š X dZ o]•š } (v v (]Œu ĀĀĀX Z oX }uX</p> <p>/(v Ç] Œ l •µ%oo%o] Œ l }všŒ š}Œ µŒ]vP %Œ r š v Œ]vP l š v Œ]vP l %o}•š š Æ µš]]v •š P]v µoP •]v v Ç šU]v om]vP µš v}š o]u]š š]U u or%oŒ š] •U Z }šZ Œ u]• }v µ š }Œ (}Œu š]]v }(Œ š o • } • š]]v (om v šZ]]vP %oŒ • • }Œ]v šZ š v Œ]vP %oŒ } •• }Œ š • }Œ }u]š •]v v Ç u v v Œ ĀZ] Z š v š u}µv š š } v }((v %oŒ}Ā]•]]v }(šZ /v] v W v o } U îôî~ Z Œ š]Ç E Ç Ç ^ u Z]š îîî• }Œ v Ç }šZ Œ v Ç šZ]vP ĀZ] Z]• š]]v o µv Œ šZ 'µ] o]v • (}Œ ^µ•%oo v•]]v }(µ•]v •• o]vP• P]v•š •µ Z] Œ l •µ%oo%o] Œ l }všŒ š}Œ • %oŒ Æ š v š Pµ] o]v • } (šZ }u%o v l }Œ µv Œ %o%oo] o o P o %oŒ}Ā]•]]v•X 'µ] o]v • (}Œ •µ•%oo v•]]v }(µ•]v •• Ā %o P W Zšš%oWlĀĀĀX Z oX }uĀ v ŒZŒ P]•šŒ š]]vĀ v ŒX%oZ%oX</p>	
iô	<p>KŒ Œ } (WŒ v W /v šZ Ā v š } (v Ç u]Pµ]š Ç }Œ }v(o] š šĀ v šZ d v Œ } µu v š•U šZ }Œ Œ }]v šZ }Œ Œ o}ĀW X u v u v š•l o Œ] (] š]]v•l }ŒŒ]P v l ŒŒ š š X]••µ]v Œ •%o š } (šZ š v Œ X µ Ç Œ] ^%o] (] d X ^%o] o }v]š]]v• } (šZ }všŒ šU] (v Ç X ' v Œ o d Œu• ~ }v]š]]v• } (d v Œ v µ]Œ Ç X '/^d</p>	
iô	<p>}u%oo] v • } ('/^d W] Œ l s v }Œ Z • š } v•µŒ šZ •µ u]••]]v }(šZ]Œ } (Œ (}Œ d v Œ v µ]Œ Ç }vo Ç , Œ] Ā Œ [• µ Ç Œ] ^%o] (] š]]v o d Œu• ~ }v]š]]v•U ^%o] o š Œu• v d Zv] o •%oo] (] š]]v• v Œ µ]Œ u v š•U > š •š s Œ•]]v } (' E Z > /E^dZh d/KE^ E d ZD^ ~ KE /d/KE^ ~'/^d • Ā]š }µŒ •]š Zšš%oWlZĀŒX Z oX }u l Z o Ā l > š •š s Œ•]]v } (' v Œ o /v•šŒ µ š]]v• v ^š v Œ d Œu• ~ }v]š]]v• ~'/^d } (}Œ d</p>	
iô	<p>^ Œ %oW ^ Œ %o š } Œ š]v Ç Ā v }Œ]• v}vr Z Œ P o X Kvo Ç '^d v %o%oo] o š Æ • } Œ }Ā Œ (Œ]u Ā v }Œ [• v X s v }Œ uµ•š iµ•š l%oo •• }v šZ v (]š š} , > ĀZ]o µ Œ š Ā]oo o µo š • }v šZ u}všZ o Ç u Œ l š • Œ %o %oŒ] • š Œu]v Ç Œ Ā u š Œ] o Ā]PZš v (]v o Ā]PZš •Z oo }v•] Œ (}Œ šZ o µo š]]v } (• Œ</p>	
iï	<p>š]o• } (}v š š W Œ•}v E u U •]Pv š]]vU %o Œ šu v š }u%oo š %o}•š oU ru]o D}]o v}X š } u v š]]v X</p>	
iï	<p>E]š W iX /v šZ Ā v š } (}µŒ µ•š]u Œ }Œ Œ }Ā Œ]vP šZ]• š v Œ]vP v oo l%oo u]] (] U , > Ā]µo }v•šŒ]v š } Œ]vPo Ç v o l Z}o l u}] (Ç šZ š v Œ š Æ µš]]vX îX , > u Ç v P]š] š šZ > í Œ š U] (v š u š]vP }µŒ µ P š l •š]u š }•šX , > u }%o v U] (> í %oŒ]]• v}š %o š o š } , > Ā v (š Œ v P]š] š]]vX v Ç Ā] š]]v (Œ]v d ,EKr KDD Z / > d ZD^ E KE /d/KE^ r µ Ç Œ] ^%o] (] š]]v o d Œu ~ d •U ^%o] o š Œu• v }v]š]]v•U d Zv] o •%oo] (] š]]v• v Œ µ]Œ u v š•U > š /E^dZh d/KE^ E ^d E Z d ZD^ ~ KE /d/KE^ ~'/^d • Ā]oo o š }Œ i š]]v } (} (Œ îX v Ç Z vP]v %o%oo] o Œ š • } (d Æ }Œ v Ç }šZ Œ •š šµš}Œ Ç o Ā] • ~]Œ š l]v šŒ } µ š]]v } (v Ç o Ā Ç Ç u v • } (•š šµš v]š • }ŒŒ •%o]v]vP o]]o]š Ç (}Œ šZ PŒ o]Ā Œ Ç š }Œ Œ •}v•v}š ššŒ]µš o š } , > Ā]oo š } Ā v }Œ • }µv š • u v v Ç •µ • µ v š o]u]v šZ]• Œ •%o š Ā]oo •µuu Œ]o Ç Œ š X</p>	

	<p>ðX , > Œ • ŒÀ •]š • Œ]PZš š} Œ i š v }((Œ μ š } μv • š] • (š)ŒÇ %o • š %o Œ ()Œu šZ Æ μš }v } (vÇ } všŒ š š } vÇ , > %oŒ } i š l hv]šX ñX dZ } (Œ •) (šZ] Œ • ÁZ } Œ μv Œ • μ • %o v •] v v o • } šZ } (Œ •) (šZ] • ŒÀ] • } (šZ v v (]Œu • l %oŒ] v] %o ol P v š • U • Z oo Œ i š X dZ o] • š } (v v •] š ÁÁÁX Z oX } uX òX Z } Á ŒÇ l μ š } v • %o %o o] o • %o Œ] Œ š v / v] Œ š š Æ • • v } š] () Ç š] u Á] oo u v] v () Œ u š } v l Œ š] (] š () Œ • μ Z μ š } v l Œ } Á Œ] • • Z oo % Á v</p>	
<p>ii</p>	<p>WŒ rYμ o] (] š } v Œ] š Œ] W íiXd Zv] ol WYZ ~ šš Z • íiX / v š P Œ] š Ç W š r E } š %o %o o] o íiXi] Œ u μ • š v } š u] š š μv Œ } Œ %o } Œ š / v • } o Á v Ç Z • } o μ š } } v W Œ } • • } Œ >] E > d } Œ v Ç i μ] š] v P μ š Z } Œ] š Ç l μ š Z } Œ] š] • U v • Z oo • μ u] š μv Œ š l] v P ~ Æ %o o v š } Œ Ç E } š • () Œ š Z WYZ ~ WŒ rYμ o] (Ç] v P Z < μ] Œ u v š • • W] X Œ v š] o • (μ Œ v] • Z Ç š Z] Œ P] v • š — WZ rYh > / & z / E ' Z / d Z / — • Z oo μ š Z } Œ] š Ç () Œ] š • μ š Z v š]] š Ç X / v • U v Ç Œ v š] o ~ • •] • l Œ () μ v š } • %o μ Œ Œ i š X , > Œ • ŒÀ • šZ Œ] P Z š š }] v] š] š v Ç (μ Œ š Z Œ š] } v • %o Œ Æ š v š μ •] v • • o] v P • • %o %o o] o] v , > X]] X W Œ]] • } () v o Ç š Z } •] Œ • • Z oo (š Œ } u %o o] v } (WYZ X</p>	
<p>ii</p>	<p>6SOLWWLQJ RI WHQGHUHG TXDQWLW\ X / v • } (š Z Œ } Œ u } Œ š Z v } r } u u Œ] oo Ç < μ o] (] } ((Œ •] v š Z • Z oo } v • u v š] } v o } Á W íX / v • > í Á v } Œ] • D ^ W] X Y μ v š] š Ç • Z oo] • š Œ] μ š š Á v š Á } Á v } Œ •] v š Z Œ K š Z Œ š Z v > í r í X]] X , > • Z oo P] Á } μ v š Œ } ((Œ š } } š Z Œ š Z v > í Á v } Œ • X %o š v } (} μ v š Œ } ((Œ Ç > í] Œ U < μ v š] š Ç • Z oo • } } v X]]] X } Á] • š Œ] μ š] } v] • • μ i š š } %o š v } (> í Œ š • Ç š Z Á v } Œ • X] Á X / v • } (v } v r %o š v } (} μ v š Œ } ((Œ Ç v Ç Á v } Œ %o %o o] o %o Œ } Á] •] } v • š Z Á Z } o < μ v š] š Ç Á } u o } Œ Œ íX / v • > í Á v } Œ] • v } v r D ^ v D ^] Œ • (oo •] v š Z Œ v P v W] X ^ %o o] š š Œ š } < š Ç • • %o] (] v o μ • í ~] • } Á U Á] oo D ^ Á v } Œ (oo] v P] v š Z Œ v P } (> í = í ñ 9 X / v • } (] v Œ < μ v š] š Ç U š Z] • š Œ] μ š] } v • Z oo u u } v P š Z o] } Œ] v P o Ç X]] X / (u } Œ š Z v } v D ^] Œ (oo •] v š Z > í = í ñ 9 %o Œ] v š Z < š Ç • • %o] (] v o μ • í ~] • } Á Á] oo (] Œ • š } ((Œ š }] Œ ~ } v š Z • } (o v } • š š } , > • X / v • } (v } v r } μ v š Œ } ((Œ Ç o } Á • š o] P] o] Œ U v Æ š o } Á • š o] P] } μ v š Œ } ((Œ v • } } v š } oo o] P] o D ^] Œ • (oo] %o Œ] v X]]] X } Á] • š Œ] μ š] } v] • • μ i š š } %o š v } (> í Œ š • Ç š Z Á v } Œ • X</p>	

	<p>]ÀX /v • } (v } vr %š v } (} μvš Œ } ((Œ Ç vÇ o] P] o D^</p> <p>]•šŒ] μš}}v • Z oo u š} }šZ Œ À v }Œ• • •%o] (] v o</p> <p>ÀX /v • } (v } vr %š v } (} μvš Œ } ((Œ Ç vÇ À v }Œ</p> <p>%o%o] o %Œ}À]•}}v•U šZ ÁZ}o <μ vš]šÇ Á}μo }Œ Œ</p> <p>ïX/v • >í ~ >î }šZ À v }Œ• Œ v } vr D^ v D^] Œ• (oo•]</p> <p>>í=iñ9 %Œ] v W</p> <p>]X ^%o]šš Œ š}} <šÇ • •%o] (] v o μ• í~]• }À Á]oo } ((</p> <p>v o v <šÇ Á]oo %o } v >í À v }Œ•]•šŒ] μš}}v]</p> <p>YšÇ Á]oo } ((Œ š} v } v D^ >î À v }ŒX</p> <p>]]X / (u }Œ šZ v } v D^] Œ (oo•] v šZ >í=iñ9 %Œ] v šZ</p> <p><šÇ • •%o] (] v o μ• í~]• }À Á]oo (]Œ•š } ((Œ š} (</p> <p>] Œ ~}v šZ •]• } (o v }•š š} , >•U]v • } (v } vr</p> <p>}μvš Œ } ((Œ Ç o } Á • š o] P] o] ŒU v Æš o } Á • š o] P]</p> <p>}μvš Œ } ((Œ v • } }v š} oo o] P] o D^] Œ• (oo]v</p> <p>%Œ] v X</p> <p>]]]X }À]•šŒ] μš}}v]• •μ i š š} %š v } (>í Œ š • Ç šZ</p> <p>À v }Œ•X</p> <p>]ÀX /v • } (v } vr %š v } (} μvš Œ } ((Œ Ç vÇ o] P] o</p> <p>]•šŒ] μš}}v • Z oo u š} }šZ Œ À v }Œ• • •%o] (] v o</p> <p>ÀX /v • } (v } vr %š v } (} μvš Œ } ((Œ Ç vÇ À v }Œ</p> <p>%o%o] o %Œ}À]•}}v• šZ ÁZ}o <μ vš]šÇ Á}μo }Œ Œ</p>	<p>/v • } (} v o Ç šÁ} š Z v } r } u u Œ] o o Ç <μ o] (] } ((Œ•] v šZ š v ŒU š</p> <p>%o%o] o X /v • } (v Ç Z v P] v •%o]šš}v P Œ]š Œ] U šZ]•}}v • Z</p> <p><μ o] (] Œ• (}Œ %Œ]] }%o v] v P X</p>
<p>ï ð</p>	<p>Z À Œ• t</p> <p>, >•Z oo Œ • }Œš]v P š} Z À Œ• μ š}}v ~Z • ~'μ] o] v • • Á] o o }v</p> <p>Zšš%•WIIÁÁÁX Z o X }u l •]š • l (μ o š] (] o • l'μ] o] v • 9î i () Œ 9î i Z À Œ• 9î i μ š}}v 9î i</p> <p>šZ]• š v ŒX Z • Z oo }v μ š u } v P šZ š Z v } r } u u Œ] o o Ç <μ o] (] Œ</p> <p>š Z v } } u u Œ] o o Ç <μ o] (] Œ• • Z oo }%o v X • u • Z oo }v •] Œ ()</p> <p>] Œ ~•• } ~•• v } š %Œš]]%o š] v } v o] v Z À Œ• μ š}}v U šZ]Œ• o v Á o }%</p> <p>%o%o] o o }] v P U] (v Ç U • Z oo }v •] Œ ()Œ Œ v] v P X</p>	

ĩň

v o}•µœ W
vv Æµœ ríW Z l >]•šX
vv Æµœ rîW K((œ {}œÁ œ]vP o šš œ l š v œ •µ u]••}}v o šš œ
vv Æµœ rîW &}œu š {}œ Á] š}}v
vv Æµœ rðW o œ š}}v œ P œ]vP /v•}oÀ v Ç l >]µ š}}v l v]œµ%š Ç Wœ}]v
vv Æµœ rñW o œ š}}v Ç µšZ}œ]i ^]Pv š}œÇ
vv Æµœ ròW o œ š}}v Ç µšZ}œ]i ^]Pv š}œÇ œ P œ]vP µšZ v š]]šÇ } (•µ u]
vv Æµœ rôW E
vv Æµœ ríîW o œ š}}v œ P X Z o š &}œu• ~ šZ]œ œ • } (š]À]š] •
vv Æµœ rííW o œ š}}v {}œ œ o š}}v]v , >
vv Æµœ r íîW o œ š}}v œ P X u]v]uµu o} o }vš v š]v o]v Á]šZ œ À]• %µ o] 9
vv Æµœ r íîW o œ š}}v œ P œ]vP }u%o] v š} Z •šœ] š}}v• µv œ Zµo íðð ~A
vv Æµœ ríðW W}Á œ } (šš}œv Ç {}œ •µ u]••}}v } (š v œ X
vv Æµœ ríñW E
vv Æµœ ríðW Wœ}{}œu } (v l 'µ œ v š {}œ ^µ%%oÇ } (&œ /••µ D š œ] o X
vv Æµœ ríóW E
vv Æµœ ríôW >]•š } (}v•}œš]µu v l X

127(6XSSOLHUV DUH UHTXLUHG WR ILOO LQ WKH IROORZLQJ G
 OHIW EODQN

\$	1DPH DQG \$GGUHV V RI WKH 6XSSOLHU	
%	*671 1R RI WKH 6XSSOLHU 3ODFH RI ([HFXWLRQ RI &RQWU	
&	'HWDLOV RI &RQWDFW	1DPH 0U 0V 'HVLJQDWLRQ SHOWS RORU MKLV 7HQGHU 0RELOH 1R (PDL(
'	(0' '(7\$, /	
(	'(6&5,37,21	\$33/, &\$%, / , 7 < (% & / 26 (' % < % + (, % , ' (!
L	:KHWKHU 3UH 4XDOL XQGHUVWRRG DQG VXSSRUWLQ	ILFDWLRO &ULWHULD LV SSOLFDEOH SURYLGHG SURSHU 2 SSOLFDEOH
LL	:KHWKHU DOO SDJHV GRFXPHQWV LQFOXGH DSSHQGLFHV HWF DL	\$ RI WKH 7HQGHU SSOLFDEOH DOOHXUHV 12 SSOLFDEOH
LY	&RS\ RI 3\$1 &DUG	\$SSOLFDEOH 67 DUH LVWUDWL (RQ 12 SSOL
Y	6XEPLVVLQR RI 06(VSHFLILHG	\$SSOLFDEOH SSOL
YL	2IIHU IRUZDUGLQJ VXEPLVVLQR OHWV:	\$SSOLFDEOH SSOL
YLL	'HYLDWLRQV LI DQ\ &RQG DV SHU \$:	\$SSOLFDEOH SSOL
YLL	'HFODUDWLRQ UHJD LTLXLGDWLRQ %DQN SHU \$Q:	UGLOJ FQVROYHQF\ SSOLFDEOH UXSWEF 3URFH SSOLFDEOH
L[	'HFODUDWLRQ E\ \$XWK SHU \$Q:	\$SSOLFDEOH SSOL
[	'HFODUDWLRQ E\ \$XWK UHJDUGLQJ \$XWKHQW 'RFXPHQWV :	\$SSOLFDEOH SSOL
[LL	6XEPLVVLQR RI ,QWHJ LQ 7HQGHU DV:	\$SSOLFDEOH SSOL
[LY	'HFODUDWLRQ UHJ 5H DUHDV RI \$FWLYLW:	\$SSOLFDEOH SSOL
[Y	'HFODUDWLRQ IRU UH \$QQH:	\$SSOLFDEOH SSOL

[YL	'HFODUDWLRQ UHJ PL LQ OLQH ZLWK UHYLVH SHU \$Q :	QLPXP ORFDO GSSOLFDEOH \$SSOLFDEOH	FRQWHQW FXPHQW DV
[YL	'HFODUDWLRQ UHJDUGLQJ L5HVWULFWLRQV XQG DV SHU :	GSSOLFDEOH \$SSOLFDEOH	DQFH WR R(6*)512
[YL	3RZHU RI \$WWRUQH\ WHQGQU DV :	ISSOXEPEOML \$SSOLFDEOH	LRQ RI <(6 RI ₁₂
[L	3URIRUPD RI %DQN *XD ORQH\ DV SHI:	DSSOLFDEOH \$SSOLFDEOH	(DUQH VW 1\$
[	3URIRUPD RI %DQN *XD RI)UHH ,VVXH ODWHUL	DSDOWHHJRU \$SSOLFDEOH	6XSSO\ QHQXU12 ±
[L	3URIRUPD RI %DQN *XD GHS \$V SHU \$	DSSOLFDEOH \$SSOLFDEOH	VHFXULW\ 1\$
[L	/LVW RI &RQVRUWLXP \$QQH	\$SSOLFDEOH QR	SHU GRU WR

127(6WULNH RII μ<(6↑ RU μ12↑ DV DSSOLFDEOH 7HQGHU Q
DSSOLFDEOH GRFXPHQWV DUH OLDEOH WR EH VXPPDULO\ UHMHF

'\$7(

6LJQ RI WKH \$87+25,6(' 6,*1\$72
:LWK 1DPH 'HVLJQDWLRQ DQG &

\$11(;85(

2)))(5)25:\$5',1* /(77(5 7(1'(5 68%0,66,21 /(77(5

7R EH W\SHG DQG VXEPLWWHG LQ WKH /HWWHU +HDG RI

2IIHU 5HIHUHQFH 1R « « « « « « 'DWH « «

7R
0DQDJHU \$,; '\$%*
UG)ORRU 0DLQ \$GPLQ EXLOGLQJ +((3 +DULGZDU
8WWDUDNKKDQG 3KRQH (PDLO VXUDMSUDNDVK#EKHO

'HDU 6LU

6XE 6XEPLVVLRQ RI 2I;HU DJDLQVW* 1,7 1R

+DYLQJ H[DPLQHG WKH WHQGDU GRFX
; *GW««« DQG KDYLQJ XQGHUVWRRG WKH SURYLVLRQV
KDYLQJ WKRURXJKO\ VWXGLHG WKH UHTXLUHPHQWV RI %+(/ UHO
«««««« ZH KHUHE\ VXEPLW RXU RIIHU IRU WKH SURSRVHG Z
FRQGLWLRQV PHQWLRQHG LQ WKH WHQGDU GRFXPHQWV DW WKH
VFKHGHO

6KRXOG RXU 2IIHU EH DFFHSWHG E\ %+(/ IRU \$ZDUG , ZH IXUWK
,QGHPQLW\ ERQG DV SURYLGHG IRU LQ WKH 7HQGHU &RQGLWLRQ
%+(/

, :H IXUWKHU DJUHH WR H[HFVWH DOO WKH ZRUNV UHIHUHG WF
FRQGLWLRQV FRQWDLQHG RU UHIHUHG WR WKHUHLQ DQG DV GH

, :H KDYH GHSRVLWHG KHUHZLWK WKH UHTXLVLWH (DUQHVW ORQ
&KHFN /LVW

\$XWKRUL]HG 5HSUHVHQWDW
6LJQDWXUH
1DPH
\$GGUHV

3ODFH
'DWH

\$11(;85(
&(57,)&\$7(2) 12 '(9,\$7,21
7R EH 7\SHG VXEPLWWHG LQ WKH /HWWHU +HDG RI V

7R
0DQDJHU
\$,; '\$%*
+((3 +DULGZDU

'H DU 6LU
6XEM1R FWHYLDWLRQ &HUWLILFDWH
5HI ;1R *

:H KHUHE\ FRQILUP WKDW ZH KDYH QRW FKDQJHG PRGLILHG PDV
GRZQORDGHG IURP WKH ZHEVLWH LVVXHG E\ %+(/ DQG LQ FDVH
WUHDWHG DV QXOO DQG YRLG
:H DOVR KHUHE\ FRQILUP WKDW ZH KDYH QHLWKHU VHW DQ\ 7HU
GHYLDWLRQ IURP WKH 7HQGHU FRQGLWLRQV WRJHWKHU ZLWK RV
*H0 %LG
:H IXUWKHU FRQILUP RXU XQTXDOLILHG DFFHSWDQFH WR DOO 7H
7HQGHU &RQGLWLRQV
:H FRQILUP WR KDYH VXEPLWWHG RIIHU LQ DFFRUGDQFH ZLWK W
UHIHUHQFHV

7KDQNLQJ \RX

<RXUV IDLWKIXOO\

6LJQDWXUH GDWH VHDO RI
UHSUHVHQWDWLYH RI WKH ELC

'DWH
3ODFH

\$11(;85(

81'(57\$.,1*
7R EH W\SHG DQG VXEPLWWHG LQ WKH /HWWHU +HDG RI

7R
0DQDJHU \$,; '\$%*
UG)ORRU 0DLQ \$GPLQ EXLOGLQJ +((3 +DULGZDU
8WWDUDNDKQGG 3KRQH (PDLO VXUDMSUDNDVK#EKHO

'H DU 6LU 0DGDP

6XE '(&/\$5\$7,21 5(*\$5',1* ,162/9(1&< /,48,'\$7,21 %\$1.583
352&(' ,1*6

5HI 1,7;1R *

, :H GHFODUH WKDW , :H DP DUH QRW XQGHU LQVROYHQF\ UHVR
3URFHHGLQJV ,%& DV RQ GDWH E\ 1&/7 RU DQ\ DGMXGLFDWLQ
LQHOLJLEOH IRU SDUWLFLSDWLRQ LQ WKLW WHQGHU

6LJQ RI WKH \$87+25,6(' 6,*1\$725< :LWK 1DPH 'HVLJQDWLRQ DQQ

3ODFH
'DWH

\$11(;85(±

'(&/\$5\$7,21 %< \$87+25,6(' 6,*1\$725< 2) %, '(5
7R EH W\SHG DQG VXEPLWWHG LQ WKH /HWWHU +HDG RI

7R
0DQDJHU \$,; '\$%*
UG)ORRU 0DLQ \$GPLQ EXLOGQLQJ +((3 +DULGZDU
8WWDUDNKGQG 3KRQH (PDLO VXUDMSUDNDVK#EKHO

'H DU 6LU

6XE 'HFODUDWLRQ E\ \$XWKRULJHG 6LJQDWRU\

5HI

1,7 †R *
\$OO RWKHU SHUWLQHQQW LVVXHV WLOO GDWH

, :H KHUHE\ FHUWLI\ WKDW DOO WKH LQIRUPDWLRQ DQG GDWD
6SHFLILFDWLRQ DUH WUXH DQG FRPSOHWH WR WKH EHVW RI P\
FRQGLWLRQV VWLSXODWLRQV DQG DOO RWKHU SHUWLQHQQW LV\
DQG ,QWHQW RI WKH VSHFLILFDWLRQ

, IXUWKHU FHUWLI\ WKDW , DP DXWKRULJHG WR UHSUHVHQW RQ
WHQGHU DQG D YDOLG 3RZHU RI \$WWRUQH\ WR WKLW HIIHFW LV

<RXUV IDLWKIXOC

6LJQDWXUH 'DWH 6HDO RI
6LJQDWRU\ RI WKH %LGG

(QFORVHG 3RZHU RI \$WWRUQH\

\$11(;85(±

'(&/\$5\$7,21 %< \$87+25,6(' 6,*1\$725< 2) %,'(5
7R EH W\SHG DQG VXEPLWWHG LQ WKH /HWWHU +HDG RI

7R

0DQDJHU \$,; '\$%*
UG)ORRU 0DLQ \$GPLQ EXLOGLQJ +((3 +DULGZDU
8WWDUDNKDQG 3KRQH (PDLO VXUDMSUDNDVK#EKHO

'H DU 6LU

6XE 'HFODUDWLRQ E\ \$XWKRULJHG 6LJQDWRU\ UHJDUGLQJ \$XW

5HI

1,7 †R *
\$OO RWKHU SHUWLQHQW LVVXHV WLOO GDWH

, :H KHUHE\ FHUWLI\ WKDW DOO WKH GRFXPHQWV VXEPLWWHG
5HTXLUHPHQWV' DUH WUXH FRSLHV RI WKH RULJLQDO DQG DUH
WKH ELG DQG VKDOO SURGXFH WKH RULJLQDO RI VDPH DV DQG Z

, :H KHUHE\ IXUWKHU FRQILUP WKDW QR WDP SHULQJ LV GRQH
TXDOLILFDWLRQ DV ELGGHU , :H XQGHUVWDQG WKDW DW DQ\ \\\
DZDUGHG FRQWUDFW LI LW LV IRXQG WKDW IDNH IDOVH IRUJH
ZHUH VXEPLWWHG LW ZRXOG OHDG WR VXPPDULO\ UHMHFWRQ
OLEHUW\ WR LQLWLDWH RWKHU DSSURSULDWH DFWLRQV DV SHU
RI %KDUDW +HDY\ (OHFWULFDQV /LPLWHG

<RXUV IDLWKIXOC

6LJQDWXUH 'DWH 6HDO RI
6LJQDWRU\ RI WKH %I

'DWH

\$11(;85(±

1 R W 8 V H G

\$11(;85(±

1 R W 8 V H G

\$11(;85(±

1 R W 8 V H G

\$11(;85(±

'(&/\$5\$7,21

'DWH

7R

0DQDJHU \$,; '\$%*
UG)ORRU 0DLQ \$GPLQ EXLOGLQJ +((3 +DULGZDU
8WWDUDNKGQ 3KRQH (PDLO VXUDMSUDNDVK#EKHO

'HDU 6LU 0DGD P

6XE 'HWDLOV RI UHODWHG ILUPV DQG WKHLU DUHD RI DFWLYL

3OHDVH ILQG EHORZ GHWDLOV RI ILUPV RZQHG E\ RXU IDPLO\ P
VDPH LWHP ZLWK %+(/ 1\$ LI QRW DSSOLFDEOH

	0DWHULDO &DWHJRI	
	1DPH R	
	\$GGUHV\	
	1DWXUH R	
	1DPH RI)DPL'	
	5HODW	
	0DWHULDO &DWHJRI	
	1DPH R	
	\$GGUHV\	
	1DWXUH R	
	1DPH RI)DPL'	
	5HODW	

1RWH , FHUWLI\ WKDW WKH DERYH LQIRUPDWLRQ LV WUXH DQ
WKH DERYH LQIRUPDWLRQ IXUQLVKHG LV IRXQG WR EH IDOVH

5HJDUGV B
)URP 0 V

6XSSOLHU &RGH

\$GGUHV

\$11(;85(±

'(&/\$5\$7,21)25 5(/\$7,21 ,1 %+(/

7R EH W\SHG DQG VXEPLWWHG LQ WKH /HWWHU +HDG RI WKH &P
%LGGHU LV OLDEOH WR EH VXPPDULO\ UHMHFWD

7R

0DQDJHU \$,; '\$%*
UG)ORRU 0DLQ \$GPLQ EXLOGLQJ +((3 +DULGZDU
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To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at.....(name of the Unit) having awarded to.....² (Name of the Vendor / Contractor / Supplier), with its registered office at _____² (hereinafter called "the Vendor/Contractor/Supplier" which expression shall include its successors and permitted assigns) a contract Ref No.....dated³valued at Rs.....(Rupees -----) /FC.....(in words.....) for⁴(hereinafter called the 'Contract')

AND WHEREAS the Employer having agreed as per the terms and conditions of the Contract to supply free issue material costing Rs.____ for the manufacture/fabrication of the equipment at the 'Contractor/Supplier/Fabricator's' site on furnishing of a Bank Guarantee for Rs./FC____ (Rupees/FC.....)⁵ in the manner hereinafter specified for the due safeguard of the free issue material, we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount but not exceeding Rs/FC ----- (Rupees/FC -----) without any demur, merely on a demand from the Employer and without any reservation, protest and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the 'Contractor/Supplier/Fabricator in any suit or proceeding pending before any Court or Tribunal or Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment hereunder and the 'Contractor/Supplier/Fabricator' shall have no claim against us for making such payment.

We theBank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and till the reconciliation of the free issue material has been carried out and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We Bank further agree that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said 'Contractor/Supplier/Fabricator' from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier/Fabricator and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said 'Contractor/Supplier/Fabricator' or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said 'Contractor/Supplier/Fabricator' or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor/Supplier/ Fabricator and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's/Supplier's/ Fabricator's liabilities.

This Guarantee shall remain in force upto and including.....⁶ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/ Supplier/ Fabricator but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁷we shall be discharged from all liabilities under this guarantee thereafter.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁵
- b) This Guarantee shall be valid up to⁶
- c) Unless the Bank is served a written claim or demand on or before _____⁷ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ *NAME AND ADDRESS OF THE EMPLOYER. i.e Bharat Heavy Electricals Limited*

² *NAME AND ADDRESS OF THE CONTRACTOR / SUPPLIER/ FABRICATOR .*

³ *DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE*

⁴ *PROJECT/SUPPLY DETAILS AND CONTRACT VALUE*

⁵ *BG AMOUNT IN FIGURES AND WORDS*

⁶ *VALIDITY DATE*

⁷ *DATE OF EXPIRY OF CLAIM PERIOD*

Note:

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.
4. **In Case of Bank Guarantees submitted by Foreign Vendors-**
 - a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
 - b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

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Pre-Qualifying Requirement (PQR) for Arm Extractors (P/Ns - 27820218136 & 27820218137)

Sl.No.	REQUIREMENT	REMARKS
1.	Only those vendors should quote who having following In-house manufacturing facilities required for machining Arm Extractor – P/N 27820218136 & 27820218137: -	Vendor to confirm
A.	<u>CNC Milling Facility: -</u>	
i.	Vendor shall have CNC Milling Machines like VMC or HMC or 3/4/5 axes machining centre Suitable for machining Arm Extractor – P/N 27820218136 & 27820218137 as per drawings, TR & Tender requirement.	Vendor to confirm & submit machine Broad Specification
2.	<u>Past Experience:</u>	
i.	Vendor should have past experience of machining components having intricate 3D profile with close accuracy and tolerances. Vendor to provide proof like PO copy along with component drawing.	Vendor to confirm & Submit details
3.	Vendor to confirm that above facilities as mentioned in point no. 1.A installed at their works are in good working condition with capability of achieving all the dimensions, surface finish, accuracies & tolerances as per BHEL drawings. If necessary, vendor can suggest alternate facilities (other than specified in point no. 1. A) for machining and measurement of Arm Extractor – P/N 27820218136 & 27820218137 with accuracies, surface finish & tolerances as per BHEL drawings, subjected to final review & acceptance by BHEL.	Vendor to confirm & submit machine Broad Specification
4.	Vendor to note that all tools, measuring instruments, technological items etc. required for manufacturing of subject items shall be arranged by vendor, in case of order.	Vendor to confirm
5.	Vendor to confirm that all the dimensions, accuracies & surface finish of the components shall be met as per Technical Requirements & BHEL drawings.	Vendor to confirm
6.	BHEL reserves the right to verify the information provided by vendor. BHEL may also visit vendor works if so desired by BHEL. In case the information provided by vendor is found to be false/ incorrect, their offer shall be rejected.	Vendor to note & agree


07/01/24

Sumit Kumar
(Mgr./DABG)



Sachin Maggu
(Mgr./NCT)



Sandeep Singh
(Dy. Mgr./ DABG-plg)

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Note: - Vendors must ensure compliance of all the applicable rules and procedure as envisaged in the GST Regime. Any loss to BHEL-Haridwar due to fault / non-compliance by the vendor will be to the vendor's account.

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