

3/ከ' tyf ; fgf pBfi sfofho sfofho

s_ pBfi kzf; g

pknAw xg]; jfx?	; nlg ug{kgsfuhftx?	nllg]; do	w/f;l /sd	; nlg sdf/l
	s_ gful/stfsf]kpf0fkqsf]k tlnk v_ sDkgl ePdf sDkgl btf{; DaGwl sfuhftx? u_ Ohfht -s_ km/fd 3_ :sld a_ jftfj/of ; Af0f lgodfjnl @)%\$ sf]cg'; lr ! jf @ cg'; f/ IEE jf EIA ug{kgsfuhftx? IEE jf EIA k tj]bg r_ cGo lgsfosf] l; km/l; -cfjZos ePdf_ / ; /hldg drNsf	s_ sfofhoaf6 cgdlit kpf g ug{kgsfuhftx? efnkn6, cG0df & lbg leq .	s_ :yl/ kfl ?= % nfv ; Dd ?= !,))) v_ " !) " ?= @,))) u_ " @% " ?= \$,))) 3_ " %) " ?= &,))) a_ " ! s/18 " ?= !,))) r_ " ! s/f8 eGbf dfyl ?= @,)))	
@= l; -g+! cg'; f/ cgdlit kpf g ePsf pBfiux?sf] s_ kfl a[4 v_ lfdtf a[4 u_ p2]o yk 3_ 7f8; f/l a_ gfd; f/l	s_ pBfi btf{kpf0f kq v_ pBfi]sf]; zflwt :sld u_ ; zflwt Ohfht -s_ km/fd 3_ ; DaGwt s/ sfofhosf]k tlqmf -7fp; f/l / gfd; f/l]nfludfq_ a_ xs 5f8 kq -gfd; f/l]nflu_	v_ sfofhoaf6} cgdlit kpf g ug{kgsfuhftx? efnkn6, cG0df & lbg leq .	s_ pkoQmf; f/ km/s /sd hDdf ug{kgsfuhftx?	
#= jftfj/of ; Af0f lgodfjnl @)%\$ cg'; f/ k /lDes jftfj/oflo kl/lf0f IEE ug{kgsfuhftx? kgsfuhftx? :jls[tl sf] nflu l; km/l; ug]	s_ gful/stfsf]kpf0f kqsf]k tlnk v_ :sld u_ b/vf:t km/d jf lgj]bg 3 k /lDes jftfj/oflo kl/lf0f]sfo{ 'lr a_ k /lDes jftfj/oflo kl/lf0f k tj]bg r_ jftfj/of ; Af0f lgodfjnl @)%\$ sf]lgod & - @_ adf]hd b]fosf sfuhft M != uf=l; =, g=kf= / ; DaGwt lgsfosf pBfi :yfkgsfuhftx? ug]!% lbg]; r'gf 6fF drNsf @= pBfi :yfkgsfuhftx?/fli60 b]gs klqsdf ksf]zt !% lbg]; fj h]gs ; r'gf	! lbg leq	gnllg]	

	#= dflly -r_ sf]! / @ cg; f/ pBf]u :yfkqf ugI af/uf uf=lj =; =g=kf= sf]l; kmf/L; .			
\$= IEE :jlst ePsf pBf]ux?sf] s_ kFl a[4 v_ lfdtf a[4 u_ p2]o yk 3_ 7f]p; f/l a_ gfd; f/l	s_ b/vf:t jf lgj }bg v_ ; zfl]wt :sld u_ ; zfl]wt -v_ kmf/fd 3_ ; zfl]wt IEE k tj }bg 8_ ; DalGwt lgsfosf]:jlstl jf l; kmf/; r_ xs 5f]B kq -gfd; f/l]sf]nflu_	s_ Ps lbg leq	gnfl]g]	
%= EIA :jlst ePsf pBf]ux?sf] s_ kFl a[4 v_ lfdtf a[4 u_ p2]o yk 3_ 7f]p; f/l a_ gfd; f/l	s_ b/vf:t jf lgj }bg v_ ; zfl]wt :sld u_ ; zfl]wt -v_ kmf/fd 3_ pBf]usf]k\$[t / p2]o cg; f/ ; zfl]wt EIA k tj }bg+ 8_ ; DalGwt lgsfosf]:jlstl jf l; kmf/; r_ xs 5f]B kq -gfd; f/l]sf]nflu_	s_ Ps lbg leq	gnfl]g]	
^= cf0=0=0k tj }bg cfj Zos gkgI gof+ pBf]ux? lhNnf l:yt sfoffox?nf0{ k ofof]ht l:y/ khl ; Ddsf] pBf]u btf{.	!= lgj }bg kmf/fd -v_ @= gful/stfsf]k tlnkl #= lgj }bg b:t/ ?=%- \$= k ln=sf]sdf sDkgL /lhi6k/ sfoffojf6 k kt sfuhf]sf k tlnkl? %= cG0 lgsfosf]; xdtl kq . cfj Zostf cg; f/	Ps lbg leq	tfnl]sf cg; f/	
&= cf0=0=0k tj }bg cfj Zos gkgI btf{ e} ; s\$]f k/]fgf pBf]ux?sf] s_ khl a[4 v_ lfdtf a[4 u_ p2]o yk 3_ 7fp;f/l a_ gfd; f/l	!= lgj }bg kmf/fd -v_ @= b:t/ ?=%- #= s/ sfoffosf] k tlqmf 7fp;f/l / gfd; f/l]sf]nflu dfq \$= xs 5f]B kq -gfd; f/l]sf]nflu_	Ps lbg leq		

/fhZj b:t/ tñlsf, kñkñ/; f-kñbtf(b:t/

kñl nufgl	kñkñ	; f-kñ	kñl nufgl	kñkñ	; f-kñ
?=@),,)))- ; Dd	?= ^).-	?=%).-	?=%),,)))- ; Dd	?=! (%).-	?= ! \$)).-
?=%),,)))- ; Dd	?=!@).-	?=!)).-	?=!),,)))- ; Dd	?#()).-	?#)).-
?=!),,)))- ; Dd	?#)).-	?=@%).-	?=%),,)))- ; Dd	?=%*%).-	?=\$%)).-
?=#),,)))- ; Dd	?=!&).-	?=*%).-	; f]eGbf dfly	?=&*%).-	?=^%)).-

pknJw xg]; j fx?	cfj Zos sfuhft	; fdfotof nflu]; do	nflu]/fhZj	; Dj lGwt sdf/f/L	s]kñt
* -s_ -3/ñ' pBf]usf]cfos/ ; lawf sf]nflu Ps4f/f pk ; ldltdf l; kñl/z ug]sfo{ -v_ 3/ñ' pBf]usf]cfos/ lbg]. s/ sfofñonf0{n]g].	!= pBf] bt{f{kdf0f kq, @= pBf] lg/Llf0f kñl/fd, #= kñlt kñt] ðg \$= dof b leq pBf] ; ðfng gePd f dof b yk sf]kdf0f, %= l:sd	# lbg Ps áf/ pk ; lwltn]l; kñl/; u/\$f]lditn]# lbg leq			; DalGwt l] 1af6 lgl/lf0f u/L kñt] ðg kñt ePsf]xg' kg].
(= ; fgf pBf]ux?sf]cfos/ ; lawfsf]nflu Ps4f/f pk ; ldltdf l; kñl/L; ug]sfo{ ; fgf pBf]usf]cfos/ lbg]. s/ sfofñonf0{n]g].	!= dfly l; -gñ df pñn]vt sfuh kqx? @= Ohfht lng' kg]pBf]usf]xsdf Ohfht lnPsf]kdf0f, #= sg]lgsfosf]k] { : j ls[l ln0{ pBf] ; ðfng ug{k g]df ; f] lnPsf]kdf0f \$= pBf] ; ðfngnf0{tf\$ \$f]zt? k/f u/\$f]kdf0f	% lbg Ps áf/ pk ; lwltn]l; kñl/; u/\$f]lditn]# lbg leq			; DalGwt l] 1af6 lgl/lf0f u/L kñt] ðg kñt ePsf]xg' kg].
!)= u{x dñqfnoj f6 cgdlt ln0 k]f/L ug{k g]sRrf kb fy\$ f]l; kñl/z	!= o; eGbf clw sRrf kb fy{k]f/L u/\$f]eP ; \$f]vkt laa/0f @= :sld	# lbg			

; Dj Gwdf lj efudf l; knf/L; ugI sfo{	#= ; Dj lGwt lhNnf kzf; g sfoffhosf] l; knf/; \$= pBfU bt{kdfofkqsf]knf\$kl %= sfoffhosf]l; knf/; ; lxtsf] pBfU lgl/lfof kljtj bG				
!= pBfU]sf]sRrf kb{fy{vkt [Input Output Ratio] lGwf{Of ; DaGwl lj efudf l; knf/L; ugI sfo{	!= pBfU bt{kdfof kq @=:sld #= lGwf{/t knf/fd	@ lbg			
!@= pBfU :yfkqf tyf ; #fng ; Dj Gwl klj lws tyf Joj :yfkq / jftfj /of ; Afof jf/] k/fdz{ ;]f kbfg ugI	l; w)knf6df ; Dks{ugI	tIsfn -! lbg_	gnflg]		
!#= ; #fngdf /x\$ f pBfUx?sf] :ynut lgl/lfof tyf cgludg ugI/ cfjZostf cg'f/ klj lws tyf Joj :yfkq ; Dj Gwl /fo ; emj kbfg ugI	pBfUl tyf pBfU jf kl lglwx?n] zfvdf ; Dks{/fVg].	# lbg	gnflg]		
!\$= pBfU bt{Ohfht ; lawf cflb ; Dj Gwl k/\$f lGj bGx? dfly klj lws,jftfj /of tyf Joj :yfkq ; Dj Gwl /fo kbfg ugI	pBfUn] kZ u/\$f sfuhft h:t} pTkfbg xg] j:t\$] gfd, pTkfbg k\$of,d]zg cfnf/,sRrf kb{fy{?sf] laa/of cflb ; dfj Z xg' kgI	! lbg	gnflg]	"	"

v_ tflnd

	kl/ro	; DnlG ug{kg]sfuhft	5gf, lsl; d	nflg] /fhZj	lj ifo cj lw / :yfg	; Fgf kZfl; t xg] ldt
!= l; k lj sf; tflnd	lj leG lj ifosf] 5f6f] cj lw / nfd] cj lwsf] ; lk kbfg ugI . ; Dkof{ Joef/ sfoffnoaf6 Joxf]lg].	!= lGwf{/t lGj bG @= gknf gful/stfsf] kdfofkqsf] kl tlnik #= ; DaGwt uf=j= ; =g=kf=sf] l; knf/L; \$= cfjZostf cg'f/ z]lfs of]otfsf]kdfof kq	lnlvt÷ cftjftf{	gnflg]	; Fgdf pNny ul/g]	; fdfGotof aif6f ltk6s k\$zG ul/g] 5 . ->fj Of !% b]v efb !% ut]leq klxnf] k6ssf] ; Fgf sflt\$!% b]v dfu{!% ut] leq bf]f] / df3 !%

@= pBdl lj sf; tflnd	3/ħ' tflnd kkt klzlfyl{ pBfl ; #fng u/l cfPsf / + pBfl ; #fng ug{ nfu\$fnf0{ lb0g] # xkt] Joj :yfk tflnd	!= lgwf/t lgj ħg @= gkfnl gful/stfsf] kdf0fkqsf] kltlnk #= ; DaGwt uf=j =; =g=kf=sf] l; kmf/L; \$=cfj Zostf cg' f/ z]lfs of]otfsf]kdf0f kq	Inlvt÷ cġtjftf{ j f b j }	gnflg]	; Fgdf pNny ul/g]	b]v kmfVu0f !% ut] leq t}f]; Fgf_
#= ; xeflutf dhs l; k lj sf; tflnd	lj leġ lj ifodf cġo ; 3 ; #yfsf] ; xeflutfdf ; #fng xg] klzlf vrġf sfofnon] Joxfl/g]tflnd .	!= lgwf/t k}tfj @= ; #y btfsf] kdf0f kqsf] kltlnk	,	gnflg]	k}tfj df pNny xg]	

u= shf{kj}fx //

pknAw xg]; jf	; nlg ug[kg]sfuhft	; fdfġotof nflg]; do	nflg]/fh:j
sfofnoaf6 tflnd kkt klzlfyl{?nf0{ Joj ; fo ; #fng tyf lj :tf/ ug{shf{kj}fx xg s]if lasf; a\$df l; kmf/; lbg].	!= ?= %- sf]l6s6 6f; l shf{dfu ug{ kgf\$ sf/of vhf]lgj ħg . @= gful/stf kdf0f kqsf]kltlnk . #= tflnd lnPsf]; Ssn kdf0f kq . \$= ; DaGwt uf=j =; =g=kf=sf]l; kmf/; . -lj gf lwtf]shf{dfu ul/g]eP ; DaGwt klzlfyl\$]kdf0f kq cġoyf eP gePsf] af/]lzkmf/; kqdf k]6 pNny xg' kg]	!= cfj Zos ; k0f{sfuh kq ; lxtsf] lgj ħg kkt ePsf]dltn]Ps xktf leq 3/ħ' tyf ; fgf pBfl sfh{kj}fx cġudg ; ldltdf k} ug] / ; f]; ldltsf]lg0f6 ePsf]# lbg	gnflg]

sg}sf/0fa; pkoQmg' f/ ; jf lbg g; lsg]ePdf ; DalGwt klfnf0{To; sf]Inlvt hfgsf/l lb0g]5 .