eL-:of6 Mljs6 :yfgx¿sf nfluPs ;~hLjgL

O:ljdn cfrfo{
uf|dL0f ;]jf lgb{]zgfno

clw/fHosf ;a}ufpFFjsf; ;ldltx¿ kf]o}sdf sDtLdf klg @ nf0g 6]lnkmf]g k¥ofpgsf nflu >L % sf] ;/sf/sf] lg0f{fg';f/ gfkfn 6]lnsdn]ljz]f ufdL0f b'/;~rf/ sfo{qmd ;~rfng u/]sf]5 . ;f] sfo{qmd ;~rfng ug{Pp6f 5§} lgb{zgfno ..ufdL0f ;]f lgb{zgfnol u7g u/L sfo{{jog;d} kl/De ul/;s]sf]5 . ufdL0f ;]f lgb{zgfnon]gfkfnsf]efu}lfns agfj6nf0{;d} dWogh/ /fvL pkoQm kljlwsf]5gf]6;d} ul/;s]sf]5 . h;cg';f/ t/f0{/ ;Ud kxf8L lhNnfx¿sf uf=lj=;= x¿df WLL jf GSM Fixed kljlwaf6 ;]f pknAw u/fpg]/ afFL ljs6 kxf8L / lxdfnL lhNnfsf uf=lj=;=x¿df VSAT kljlwaf6 ;]f k¥ofpg]p2]zon]pks/0f cfklt{sf nflu af]nkq cfÅjfg u/L klZrdf~rn ljsf; lf{sf nflu WLL pks/0fx¿ k|Kt u/L h8fg sfo{d} e0/x]sf] 5 eg]ljs6 uf=lj=;=x¿df ;]f k¥ofpg VSAT pks/0fx¿, STM Network Inc. USA ;Fgkfn 6]lnsdn];g\@)))! df ;Demf}tf ;DkGg u/L pks/0f kKt ug{sfo{sf] yfngL August 2002 af6 e0;s]sf]5 . ;f] ;Demf}tfcGtu{t xfn;Dd r/0fa4 ¿kdf klxnf] n6cGtu{ xa tyf ^) yfg, bf];f]n6cGtu{ xa / !$) yfg VSAT 6ldgn / t];f]n6cGtu{ @)) yfg VSAT 6ldgn (Power System afx]\$_ kKt e0;s]sf 5g\eg] rfy}f]n6cGtu{ @)) yfg VSAT 6ldgnx¿sf nflu ;d} L/C vf]nL pks/0f kKt xg] qmddf 5 . xfn;Dd kKt Hub tyf VSAT 6ldgnx¿dWo]Hub anDal:yt ;u/dfyf e'-pks]b|ejgdf cjl:yt 5 eg] cGo 6ldgnx¿ gfkfnsf ljs6 kxf8L, lxdfnL uf=lj=;=x¿ tyf ljleGg sf/0fn] ;Dks{ljR5]b ePsf ljleGg lhNnf ;b/d'sfdx¿nufotdf kg:yfkgf;d} e0;s]sf]5 .

eL–:of6 kljlw

of]kljlw tf//lxt ;~rf/ e'-pkukdfkm{ ;~rfng xg]kljlw xf]. k[jLsf]dfly cfsfzdf sl/a #^ xhf/ lsnf]ld6/dfly !@)⁾ cGt/df # j6f e'-pkuk /fv]/ ;+f/el/ ;~rf/ ;]f pknAw u/fpg ;lsG5 . o;/L /flvPsf ;~rf/ e'-pkuk;Fhldgdf /flvg]l/lk6/ :6];gdf h:tl} PG6]gf, /]8of]pks/0f, ;f}hf/, Aof6]«cflb xG5g\. l;4fGttM oL ;~rf/ e'-pkukx¿ cfsfzdf /xg]l/lk6/ :6];g xg\eGbf pkoQm xG5 . oL lhofl;ªqmf]g; ;~rf/ e'-pkukx¿n]@\$ 306fdf g}k[jLsf]kl/qmdf ug{/ k[jLsf] ult;F;F}3Dg]xgfn]k[jLaf6 xbf{;b} Ps}:yfgdf ple/x]sf] h:tf]efg xG5 . o;}l;4fGtdf ;~rflnt e'-pkukx¿sf] sf/0fn]k[jLsf]Ps ltxf0 efunf0{Pp6f e'-pkukn];~rf/ ;]f kbfg ug{;s]sf]klg xf]. o;}u/L cGo kbf]hg h:t}M l6=eL= k;f/0f, e'-pTvgg, kls]ts ks]fksf]hfgsf/L kKt ug{d} ;~rf/ e'-pkuksf]kbfu xF}cfPsf]5 . Jofks e'-pkuk kbffnLleq Pp6f ;fgf]c±, VSAT kljlwn]klg dxEjk0f{:yfg cfu6]sf]5 .

VSAT eGgfn]Very Small Aperture Terminal eGg] aemfpF . of]Pp6f hldgdf /fVg] ;fgf]e'-pkuk s]b|(Fixed Earth Station) xf]. o;sf]PG6]gf -5ftf_ sf]cfsf/ (Diameter))=% ld6/b]v \$=% ld6/;Dd xG5 . o;af6 ;lhn}cfsfzdf /x]sf];~rf/ e'-pkuk;F ;Dks{u/L cGo ;+f/;F ;Dks{ug{;lsG5 . o;af6 lgDgfg';f/ ;]fx¿ pknAw u/fpg ;lsG5–

-!_ 6]lnkmf]g
-@_ OG6/g]6
-#_ df]af0nsf nflu cfjZos kg]E1
-\$_ ÇofS;
-%_ lel8of]k|;f/0f
-^_ PS;r]hsf nflu 6«\;ld;g lnÍ
-&_ O{dh
-*_ lel8of]5nkmn
-(_ EPABX
-!)_ LAN cflb .

VSAT 6ldgndf dVotof b0{efu xG5g\. aflx/ h8fg ul/g]pks/0f (Out door Units) / leq h8fg

ul/g] pks/0f (Indoor Units) . aflx/ h8fg ul/g] pks/0fdf PG6gf l;:6d, /]8of]lk|Sj]G;L 6fj;ld6/ xG5g\ eg]leq h8fg ul/g]pks/0fx¿df, df8d / 6]lnkmf]g ;6 cflb xG5g\. o;sf nflu cfjZos kg{]pmhf{lahhL jf ;f]nf{ pmhf{af6 lbg] ul/G5 . ODU df /xg] PG6gfdf Reflecter, Feed horn cflb xG5g\. Feed horn PG6gfsf] kmf]sn Kjf0G6df kg{]u/L h8fg ul/Psf] xG5 . Feed horn n]6fj;ld6 ug{]Signal nf0{PG6gfdf 7Ss/ v'jf0{ cfsfz tkm{sf]e"pkuxtkm{k7fpb] eg] e"pkuxaf6 kf7t Signal nf0{6r{nf06sf]kmf]s; agfPh:t}PG6gfn]Pslqt u/L Feed horn df k¥of0lbG5 . PG6gfsf] cfsf/sf] cfwf/df Signal sf]zlQmnf0{slt u0ff j[4 (Amplify) xG5 eGg] s'/f PG6gfsf]cfsf/df klg e/ kb{5 .

PG6gfsf]k|ddf Feed horn ;Fufl;P/ RFT h8fg ul/Psf xG5g\. o;df Low Noise Amplifier (LNA) n] e"pkuxaf6 kf7t C jf Ku band sf] Signal nf0{ Amplify u/L Down Converter df k7f0lbG5 / kgM Amplify ug{]sfd xG5 . To;kl5 Signal Receive Cable xF}IDU df kUb5 . o;/L g}Upconverter / High power Amplifier (HPA) sf] ;xfotfn] IDU af6 kf7t Signal nf0{Amplify u/L ! b]lv #) jf6;Dd 6fj;ld6 u/L Feed horn df k¥of0lbG5 . o;/L Convert xg]Frequency IF Freq af6 C jf KU band df kl/0ft xg] ub{5 . ODU / IDU nf0{sd Loss xg] Co-axial Cable dfkm{t hf]8Psf] xG5 . IFL Cable a9Ldf !)) ld6/;Dd nfdf]/fVg] rng 5 .

IDU df modulator xG5, h;n]u|xsx¿af6 kf7t traffic signal nf0{Carrier Signal df ;ld>0f (Super Impose) u/L RFT df k|f/0fsf nflu k7fpg] ub{5 . o;/L g}o;df ePsf]Demodulaters n]RFT af6 kf7t IF Frequency nf0{u|xssf]Traffic Signal tyf Carrier Signal df 56Øf0{lkmN6/af6 5fgL Traffic Signal nf0{dfq amplify u/L u|xssf];Dd k¥of0lbG5 . IDU n]g}Access Technique sf]lgwf{0f ub{5 . IDU nf0{ 6]lnkmf]g, ÇofS;, sDKo6/, LAN's routers, multiplexer, EPABX, PS; r]h cflb cfjZostfcg';f/ hf8g ;lsG5 .

gkfn 6]nsdn] kbfu ug{ u/]sf pks/0fx¿ lgDgfg';f/ 5g\– @=$ ld6/sf] PG6gf, o;df h8fg xg] Feed horn, Feed horn ;Fhf]8P/ a:g]RFT df LNB h;n]LNA / Down Conver sf]sfd u5{eg]2 Watt jf 5 Watt sf Block of UP Converter (BUC) n] HPA / UP Converter n]ug{]sfo{u5{ BBU/IDU n] Modulator/Demodulater sf]sfd ub{5 . o;sf nflu pmhf{pknAw u/fpg Solar Power System kf7t ePsf] 5 . kf7t BBU/IDU af6 @ nf0gb]lv * nf0g 6]lnkmf]g;Dd lj:tf/ ug{;lsG5 .

eL–:of6 k|jlwsf kmf0bfx¿–

– sg}klg ;]f pknAw gePsf :yfgdf l56f] ;~rf/ ;]f pknAw u/fpg ;lsG5 .
– eff}uf]lns b[i6sf]0fn]gkfnsf]sg}klg :yfgdf h8fg ubf{:t/df km/s gkg{].
– VSAT g]6js{af6 ((=% k|tzt;Dd ;]fdf lg/Gt/tf .
– h8fg ug{Ps xKtfleq ;lsg] ;fy}h8fg ;/n / l56f].
– ;DkU{g]6js{sf]Joj:yfkg, ;~rfng sg}Ps :yfgaf6 ug{;lsg].
– dd{ tyf ;Def/ sfo{sDKo6/dfkm{ l56f]ug{;lsg].
– eljiodf nf0g jf ;]fsf]kbf/ lj:tf/ ug{;lhn};lsg].
– ;~rfng ;fwf/0f nlvk9 ug{;Sg] u|xsn] bLzsf] sg}:yfgdf a;L ;lhn}ug{;Sb5g\.
– bLzsf]ljs6 :yfgdf IT ;]6/ :yfkgf u/L hgtfnf0{ ;]f pknAw u/fpg ;lsg].
– lxdfnsf]kNnfkl§ VSAT k|jlwsf]dfWodaf6 Exchange ;~rfng ug{;lsG5 .
– o;af6 Mobile BTS v8f u/L Mobile ;]f pknAw u/fpg ;d]t ;lsG5 . h:t} o;af6 sf7df8f}sf]Mobile ;]f ;u/dfyf a]; SofDk;Dd lj:tf/ ug{;lsG5 .

eL–:of6 g]6js{

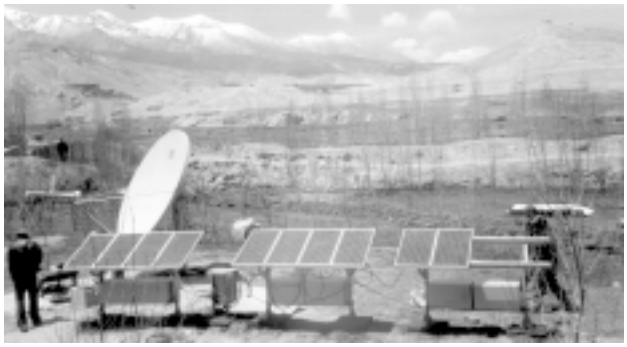
VSAT g]6js{cGtu{t ;~rf/ e"pkuxsf]6fj;kf]8/, sf]bfo xa :6]g / u|xssf];fydf a:g] ;fgf 6ld{gnx¿ /xg] ub{5g\. VSAT 6ld{gnaf6 sg} klg afÅo u|xsx¿;F ;~rf/ ;Dks{ug{;lsG5 eg] cGoqsf]sg} klg u|xsn]o; 6ld{gnaf6 ;]f k¥of0Psf u|xs;F ;f]m};Dks{ug{;Qm5 . o;/L s'/f ubf{VSAT 6ld{gnn];b} sf]bfo xa :6]g;F ;Dks{/fVb5 . xa :6]gn] ;a} ;Dks{¿nf0{lgoGq0f, ;kl/j]f0f tyf Joj:yfkg ug{]sfd u5{. :6f/ g]6js{ePdf ;a}snx¿ xa xF}cGoq hfgkg{] xG5 eg]dL g]6js{df VSAT sf]Ps 6ld{gnaf6 csf{] 6ld{gn;F ;f]m};Dks{/fVg ;lsG5, t/ o;df klg lgoGq0f tyf cgudg eg]xan]ul//x]sf]xG5 . xa :6]gdf #–!! ld6/;Ddsf PG6gf, RFT, Processing Unit, PSTN ;F hf8gsf nflu E1 lgsfNg] Ps0f cflb xG5 . o;df TDMA, FDMA, CDMA, DAMA, PAMA jf FTDMA Access k|jlw kbfu ug{ k|rng 5 . o:t} g]6js{Joj:yfkg ug{g]6js{Joj:yfkg kbffnL klg xadf hf]8Psf] xG5 . of]Pp6f sDKo6/ lgoGq0f kbffnL xf]. of]sDKo6/af6 VSAT 6ld{gnnf0{lgoGq0f, lg/LIf0f tyf

Joj:yfkg ug{;lsG5 . sd}klg u[xsnfO{sd gDa/ lbg] STD/ISD ;]jf lbg] 6]lnkmfg rfn"cj:yfdf cfPsf] jf lau]sf] s'/f ul//x]sf]jf s;nfO{ul//x]sf]cflb ;DkGf{ hfgsf/L k|fKt ug{of]sDKo6/af6 ;lsG5 .

gkfn 6]lnsdn]xadf (=^ ld6/ PG6gf, RFT C-band sf SSPA, LNA, Up/down Converter, GPS, L-band If Distribution, NCT/SCT, CDM, GTU, Multiplexer, NMS Computer cflb anDadf h8fg u/]sf] 5 . anDadf /x]sf]xa :6]gn]Pp6f PS;rf]hh:tf]sfd ub5 . To;df u[xssf]gDa/ lbg] STD/ISD ;ljwf lbg] lan /]Bs{ug[;DkGf{sfo{NMS n]ub5 . VSAT af6 sd}klg u[xs;F ;Dks{xF ;DkGf{snx¿ xa xF PSTN (Cen ISC jf Patan ISC) ;Dd kGgkg[u/L Joj:yf ldnfOPsf]5 . h:t}–ljBdfg Jj:yfcg';f/ hfd;fdsf]u[xsn] dlQmgfy s'/f ugk¥of]eg]sn xa xF kf6g PSTN clg xj To;kl5 dfq dlQmgfysf]u[xs;Dd kGb5 . To:t}VSAT sf]u[xsn]bzafIx/ jf leq hxfFsn ugk/]klg snx¿ xj xF PSTN df kGb5g\/ PSTN n]snx¿nfO{lglZrt af6f] (Routing) b]vfO{k7fpg]sfd ub5 . VSAT u[xsx¿sf]lan anDal:yt NMS / kf6g tyf ;Gwf/f u6j]PS;rf]hdf /]s8{xG5 . oL /]s8{lannfO{laln$ ljefudf nuL kz'lwg u/] u[xssf];DalGwt b'/';~rf/ sfof{nodf k7fpg]ul/G5 . u[xsn]cfÇgf]lhNnfl:yt b'/';~rf/ ;~yfg sfof{nodf ;Dks{u/L lan a‰g / /sd aemfpg ;Qm5g\.

eL–:of6 cfof]hgf sfof{jogdf b]lvPsf ;d:ofx¿

VSAT k|jlw ljs6 kxf8L / lxdfnL lhNnfx¿sf uf=lj=;=x¿sf nflu eg] leGofOPsf]k|jlw ePsfn]o;sf nflu ;aeGbf 7'hf];d:of eg]sf]uf=lj=;=sf]h8fg:yn;Dd pks/0f 9'jfgLsf]b]lvPsf]5 . bzsf]ljBdfg ;'/Iff l:yltn] ubf{lghL lf]qsf xjfO{xfh tyf x]nsK6/x¿ ;'/Ilft cjt/0f ug[:yfgafx]s cGo lf]qdf hfg rfxFbg\. lghL 6s, lhk, Eofg, cflb ;dt ;'/Iffsf]sf/0f b]vfO{af6f] ePsf bu{d :yfg;Dd VSAT pks/0f lnP/ hfg cK7Øf/f] dfGg]ub5g\. To:t}ufpFbf el/ofx¿ zx/ knfogsf]sf/0fn] df6/ af6f] xjfO{dbfg jf xlnKof8]lv h8fg:yn;Dd k¥ofpg el/of kfpg;dt dl:sn kg{yfn]sf]5 . xfn;Dd 9'jfgL ul/Psf slt ko:yfgx¿df ufpFbf¿sf];xeflutfdf ;fdfg k¥ofOPsf 5g\. csf{tkm{VSAT h8fgsf nflu uf=lj=;= n]/fVgkg[w/f6LafKt ¿= $) xhf/, h8fg vr{afkt ¿= !) xhf/ / :jfldTj s/afkt ¿= !% ;o u/L hDdf ¿= %! xhf/ % ;o gkfn 6]lnsdnfO{ aemfpgkg[df u[dLOf ;]jf lgbzgfnon]/]8of] l6=eL=, kqklqsf, kq cflbdfkm{ ;Dks{/fVg cfpg uf=lj=;=



nfdfªyfª, d:tfªdf eL–:of6 6ldgn

x¿nfO{cg'/fw ubf{d]t s]xL uf=lj=;=x¿afx]s cGo uf=lj=;=x¿ VSAT h8fgsf nflu ;Dks{df cfO/x]sf 5gg\. o;n]cfof]hgf sfof{jogdf uDeL/ ult/fw NofPsf]5 .

u[dLOf ;]jf lgbzgfno;F Ps k6sdf #) j6f;Dd h8fg 6f]nL v6fpg]hgzlQm Pj+6N; tof/ eO;s]sf] clxn]sf]cj:yfdf klg @–$ 6f]nL dfq k7fpg afWo xgk/]sf] 5 . o;sf]dVo sf/0f g}uf=lj=;=x¿n]lgodfg';f/ nfUg] cfjZos b:t'/ aemfpg l9nf ug{/ ;'/Iffsf]sf/0fn]9'jfgL ug{g;Sg'g}xf]. t;y{zflGt jxfnLlagf sd}klg cfof]hgf sfof{jogdf k0f{ult lng g;Sg]b]lvG5 .

eL–:of6 cfof]hgf sfof{jogsf]xfnsf]l:ylt

xfn;Dd xa / $)) 6ld{gnx¿dWo]xa tyf !#) j6f 6ld{gnx¿ h8fg ePsf 5g\. $)) VSAT 6ld{gnx¿dWo]#$) yfg @ nfOg lfdtfsf 6ld{gnx¿ 5g\ eg]^) yfg * nfOg lfdtfsf 6ld{gnx¿ 5g\. xfn;Dd h8fg ePsf !#) 6ld{gnx¿dWo]% j6f 6]6 :6]gx¿, !% j6f * nfOg 6ld{gnx¿, % j6f F1 :6]g / afFbL !!) j6f @ nfOg lfdtfsf 6ld{gnx¿ 5g\. o;af6 gkfn clw/fHosf dgfª / d:tfª lhNnfsf ;DkGf{uf=lj=;=x¿df 6]lnkmfg ;]jf k¥ofpg ;lsPsf]5 . o:t}&% lhNnfx¿dWo] Exchange :yfkgf ug{afFbL /x]sf % lhNnf ;b/ds'sfdx¿df klg VSAT k|jlwdfkm{ Pp6f E1 Link (30 Channels) 6fk;ld;g dfWod k¥ofO{!%) nfOg lfdtfsf] C–DOT PS;rf]h :yfkgf u/L ;~rfngdf NofO;lsPsf]5 . o;/L C–DOT Exchange :yfkgf ul/Psf lhNnf ;b/ds'sfdx¿df d:tfª, 8f]kf, xDnf, dU'/ dgfª 5g\.

ljzf]if u[dLOf b'/';~rf/ sfo{qmd

>L % sf];/sf/sf]lgOfO{adf]hd sfof{jog eO/x]sf] ljzf]if u[dLOf b'/';~rf/ sfo{qmdnfO{cufl8 a9fpg gkfn b'/';~rf/ k|flws/0fsf]klg 7'hf]elGbsf /xG5 . k|flws/0fn] k'/f{rndf ljzf]if u[dLOf b'/';~rf/ sfo{qmd sfof{jog ug{lghL lf]qnfO{cfÅjfg u/]adf]hd sl/a !) ldlnog cd]/sL 8n/ lghL sDkgLnfO{sfof{jogsf nflu lbg]

ePsf]5 eg]afEL $ lfqdf sfoqd sfoflGjog ub{cf0/xsf] gkfn 6lnsdnf0{klg ;fxLcg';f/sf]/sd pknAw u/fpg ;sdf gkfn 6lnsdleqsf]ufdL0f b'/;~rf/sf]sfoflGjogsf] dfxnf0{pT;flxt ug{/ o; sfoqdn]yk ult kfpg] s'fdf ljZj:t xg ;lsG5 .

gkfn 6lnsdn]ljzjf ufdL0f b'/;~rf/ sfoqd sfoflGjogsf nflu VSAT kljlwdfk{ lgDgfg';f/ ug{ u/L k|tfljt sfoqd tof/ u/]sf]5 . -ljljw sf/0fn] sfoqddf x]/k]/ klg xg ;Sb5 ._

lfq	cf=j=%(÷^)	cf=j=^)÷^!	cf=j= ^!÷^@	cf=j= ^@÷^#	cf=j= ^#÷^$	hDdf
;b'/ k=	&	$$	!%	#)	#(	!#%
dWo k=!)	(&	#!	$&	#!	@!^	
klZrd	#!	!%	!#	##	@*	!@)
dWo k=	^	#)	$*	#$	*	!@^
k'{	^	)	!&	*@	@)(	#!$
sh	^)	!*^	##&	@@^	#!%	(!!

clw/fHosf cGo uf=lj=;=x¿df WLL jf GSM kljlwdfk{ ;]f k¥ofpg] sfoqd k|tfj ul/Psfdf xfn cfP/ CDMA kljlwdfk{ ;]f k¥ofpg]u/L sfoqd thdf ePsf]5 . CDMA sfoflGjogsf nflu 5§}lgbz gfnosf] u7g;d]t e0;s]sf]5 . lgbz gfnosf] u7g ;dobl v g} clw/fHosf ;DkOf{uf=lj=;= x¿df sDtLdf @ nf0g 6lnkmf] k¥ofpg]lhDdf lnPsf]ufdL0f ;]f lgbz gfnonf0{CDMA sf]ufdL0f lfq sfoflGjog ug{lbgkg]{b]vG5 .

/fh:jsf]l:ylt

VSAT k0ffnLaf6 ;~rflnt k]o$ C-DOT Exchange af6 cf};tdf k|tldxgf tLg nfv ?lkofF p7g] u/]sf]5 eg]cGo xfn;Dd h8fg e0;s$f !@) 6ldgnaf6 dfl;s sl/a ;f7L nfv ?lkofF;Dd p7g]u/]sf]5 . xfn;Dd vl/b ul/Psf pks/0fsf nflu gkfn 6lnsdn]sl/a ¿= @% s/f8 eQmfgL ul/;s]sf]5 eg]afEL olt g}a/fa/sf] L/C vfn]L pks/0f cfpg]qddf 5 . To:t};~rf/ e"pkuk kbfu u/]afkt gkfn 6lnsdn]INTELSAT nf0{ k|tdlxgf sl/a @) nfv ?l.kofF aemfpgkg]{xG5 .

h8fgsf nflu edl0f vr{/ 9'jfgLafx$ PG6gfsf]l;len lgdf0f sfo{sf nflu sl/a ¿= % xhf/ rf/ Kofgn c6g] ;fh/ :6&r/ l;len lgdf0f sfo{sf nflu sl/a ¿= # xhf/ / h8fg sfo{sf nflu ¿= & xhf/ u/L hDdf vr{sl/a ¿= !% xhf/ nfUg hfG5 . nfut vr{df ;DalGwt lhNnf ljsf; ;ldltsf]:jLs[t b/ /]6sf]cfwf/df yk36 xg]ub{5 .

;fdflhs tyf cfly{s klf

gkfn clw/fHosf]sf7df8f}af6 !$ lsnfld6/ dfq 6f9f dfl6/ af6f]kU$sf] t/ xfn;Dd sg}6lnkmf] ;]f gkU$sf] dsjfgk'/sf] kmfvn uf=lj=;= blv clt ljs6 dflgPsf] dgfª sf] k" uf=lj=;=;Dd VSAT kljlwaf6 ;~rflnt 6lnkmfgn]gkfnL ufpF]hgtfsf]dxf/df xF nf] d'sfg 5f0lbPsf]5 . dsjfgk'/sf hgtfx¿ ...ca sf7df8f}sf ;fxn]t/sf/Lsf]efpdf g7Ug]ePl eg] dVv k5g\eg]k'sf hgtfx¿ ...ljbzL kfxgfx¿nf0{s]L eof]eg] kmfg u/L xlnsf]6/ afnfpg ;lsg]eof] eg] bË k5g\. 6lnkmfgsf] ;xfotfn]bzleq tyf aflx/sf cfkmGtx¿;ÍF kmfg, 0{dn ;Dks{xg]ePsfn] ufpF] hgtfsf] r]tgfsf]ljsf;df d2t kUg' :jfefljs xf]. o:t} ufpFf pAhsf] t/sf/L Pj+vfBj:tsf]ahf/efp a‰g ;lsG5 / s[fsn]jf:tljs dNo kfpg ;sL ufpF]sf] cfly{s:t/ psf:g d2t ub{5 . sfxL la/fdL kbf{xf];\s;$sf]d[o'ePsf]cj:yfdf xf];\6f9f /x$sf cfkmGtnf0{kmfgaf6 t'¿Gt afnfpg ;lsG5 . o;/L 5f]f5f]L aflx/ uPsf ufpFf a:g] j4 cfdfafx¿nf0{ ;fdflhs cfwf/ aGg kU$sf]5 VSAT 6lnkmfg .

ljleGg sf/0fn] lfltu|t ePsf @@ lhNnf ;b/dsfdx¿df tTsfn ;~rf/sf] sg}ljsNk gePsf] cj:yfdf eL–:of6 kljlw ;~hLjgL ePsf]5 . of]kljlwdf Pp6f sbl0o xa, To;kl5 ;Lwf cfsfzdf /x$sf] ;~rf/ e"pkuk clg lhNnf ;b/dsfddf a:g];fgf]PG6gf;lxtsf] pks/0fafx$ cGo sg}dfWod gxg]xgfn]aLrdf laufn jf eTsn jf eTsf0Pnf eg] 8/fpgkg{l:ylt xF . xfn;Dd efhk'/, ;fnVDa', vf6fª, cfvn9Ëf, /;'jf, wflbª, l;GwkfNrf$, /fd5fk, l;GwhL, ndhª, uNdL, c3f{vfFL, /f]Nkf, ¿sd, hfh/sf6, sflnsf6, hDnf, xDnf, c5fd, aemfª, afh'/f / bfr{nfdf eL–:of6åf/f 6lnkmfg ;]f kg:yfkgf u/L ToxfF hgtfx¿nf0{;]f kbfg ub{cfPsf] 5 . oL ;a}lhNnf ;b/dsfdx¿df hgtfsf]cfjZostfnf0{ dWogh/ u/L xfn e0/x$sf]@ nf0g lfdtfnf0{* nf0g lfdtfdf lj:tf/ ug{ sfof{De;d]t e0;s$f]5 . rfn" cf=j=sf]bf];f]rfdl;sleq @@ j6f afEL ;b/dsfddf * nf0g lfdtfdf lj:tf/ ug[sfo{;DkGg xg$5 .

o;/L eL–:of6 kljlwn]6lnkmf];Dks{ljR5b ePsf :yfgx¿df 6lnkmf kg:yfkgf u/f0{;~hLjgLsf]sfd ub{cf0/x$sf]5 .