

APPOLO STUDY CENTRE

Monsoon

8TH Term I	Unit - 2	thdpi yAk; fhypei yAk;
10th book	Unit - 2	, ej pah - fhypei y kwWk; , awi fj; jhtuqfs;
12th book	Unit - 7	- Ngz j; j Fej NkkgHL

8th - Term I

myF - 2

thdpi yAk; fhypei yAk;

mwKfk;

- fhypei y , awi fr; #oepi yad; mbggi lf; \$Wfsy; xdwhFk; , J epyj Nj hwwk> kz ;ti ffs> , awi fj; jhtuqfs> tpyqFfs; kwWk; kdj hfspi l NaAk; ngUk; j hffj i j VwgLj j fWJ.
- j kpehl by; c ss j hkGhp khtl j j pd; xU rpwpa fuhkj j py> Nk khj k> Afj h j dDi la tLKi wi a j kgAl Dk> FLkgj j l Dk; kfprrpahf nfhz l hbf; nfhz l , Uffpdwhs; mts; vgnghOJk; gUj j pahy; Md ci li a mz pfwhs; mtSi la mkkh Nfhi lf;fhj j pWf Vww cz thd fQrp ehNkhh> vYkpi rrrhW> j hGrz p Nghdwtwi wj; j d; Foej j fF toqFf pdwdh;

Gtpad; tsp kz lykhdJ thAffshy; Md gy mLfFfi sf; nfhz l j hFk; , J Gtpi ar; #oeJssJ. Gtpad; <ugG tpi rapdhy; thAffi sg; Gtpay; j ff i tj Jf; nfhs;fWJ. , j py; 78% i elu[Dk>21% Mf] p[Dk>0.97% Mh;fhDk>0.03% fhgd; i l Mfi] Lk; 0.04% kww thAffS k; kwWk; ehtpAk; c ssd.

mNj Nk khj j j py; j pah vdgth; epA rpyheJ ehl by; c ss MfyheJ vdDk; efuj j py; j d; FLkgj j l d; trpf;fwhh; mthfs; Nkyrl i l > tdJz pah i l > i fAi w> fhYi w Nghdw Mi l fi s mz p eJsshh; mtUi la mkkh mtUfF> rhz ;l t p> xl ; ; cz T> tOrukld> tbrhW Nghdw #lhd cz T ti ffi s msp;fwhh; Afj h fpU] j k]; tphi tf; Fsh;fhj j pYk> j pah fpU] j k]; tphi tf; Nfhi lf;fhj j pYk; nfhz l hLfpdwdh;

- Afj h> j pah , UtUk; nttNtwhd mi uf; Nfhsj j py; nttNtW ti fahd thofi f Ki wi a Nkwnfhs;fpdwdh;
- , j wF mt;tp l qfs pd; nttNtwhd thdpi yNa fhuz khFk;
- fhypei yAk; thdpi yAk; kdj Di la nrayghLfs> cz T ti ffs>Mi l Ki wfs> trpfFk; tL> nraAk; nj hopy;fs> Ntshz i k> fly;

gaz k> kbd; gbjj y> etbd NghfFtuj J kwWk; ehk; tpi sahLk; Neuj j pd; kUk;
j hffj j j VwgLj J fpdwd.

- vdNt xtnthUtUk; thdpi y kwWk; fhyepi yg; gwwpa mwpi t
ngwmpUffNtz Lk; , gghl ggFj pary; thdpi y> fhyepi yaid; cl f\$Wfs; gwwp
gbgNghk; NKYk; mit vtthW kdj thofi f Ki way; j hffj j j
VwgLj J fpdwd vdgi j g; gwwp nj hpeJ nfhsNthk;

"Climate" vdw nrhy; fpi skh vdw gzila fpiNuff nkhopary; , UeJ
ngwggll j hFk;
fpi sNkh "Klimo" vdwhy; j kppy; rha;TNfhz k(Inclination) vdW nghUs;

thdpi y (Weather):

- thdpi y vdgJ xU Fwggpl j , ljj pd; tspkz j yjj py; epyTk; #hpa ntsprrk>
ntggk> Nkf%l j k> fhwwpd; jpi r> fhwwOjj kl >uggj k> ki ognghopT kwWk;
gpw\$Wfspd; j di kfi s Fwggj hFk; thdpi y FWFpa fhykhd xU ehNsh>
xU thuNkh myyJ xU khjNkh el fff;\$ba epfoi tf; Fwggj hFk; NKYk;
, J Neuj j pwF Neuk> fhyjj pwF fhyk; xU tUljj pwFsshfNt khwf;\$baJ.
fhi yary; thdpi y nj srthd thdjJld; ntggkhfTk; khi y Neuj j py>
Nkf%l j jld; \$ba ki oahfTk; , Ufff;\$Lk; , Nj Nghy; thdpi y
Fshfhyj j py; FshfTk> Nfhi l fhyj j py; ntggkhfTk; , UfFk;
- ekkpy; rpyh; mbffb ', di wa fhyepi y kpfTk; edwhf cssJ" myyJ
"Nkhrkhf cssJ" vdW \$Wtj j f; Nf;stgggl bUffpNwhk; Mdhy; mf;\$wW
j twhdJ. mj wF gj pyhf ", di wa thdpi y edwhf cssJ myyJ Nkhrkhf
cssJ vdNw \$w Ntz Lk; , di wa "thdpi y mwpi f" vdW \$Wfcdwhhfs;
Mdhy; fhy epi y mwpi f vdW \$Wtj j y. (v.fh) , di wa kli ggeJ
tpi sahl L Nkhrkhf thdpi yaid; fhuz khf xjj pi tffggll sSj.

fhyepi y (Climate):

- fhyepi y vdgJ xU gFj pary; eZ j ehi sa thdpi y ruhrhi af; Fwggj hFk;
, J tsp kz j yjj pd; thdpi yf; \$Wfspd; ruhrhp j di kapi d eZ j
fhyjj pwF mjhtJ 35 tUl qfS fF fz fpl Lf; \$Wtj hFk; fhyepi yaid;
\$WFSk; kwWk; thdpi yaid; \$WFSk; xdNw MFk; thdpi yi ag; NghdW
fhyepi y mbffb khwf;\$baJ myy.

fhyepi yi aAk; thdpi yi aAk; fl LggLj j f;\$ba fhuz pfs;

- #hpa f j j hfs pd; gLNfhz k> #hpa xsrggk; Neuk> c auk> epyk; kwWk; eh;
gut y> mi ktpl k> ki yj nj hl hfs pd; jpi r mi kt> fhwwOjj k> fhww kwWk;
fl y; eNuhl j k; Nghdwi t Xhpl j j pd; / gFj pary; / gpwNj r j j pd; fhyepi yi aAk>
thdpi yi aAk; j hkhdpfFk; Kffpa fhuz pfs hFk;

tspary; vdgJ thdpi yaid; mwptary; ghpt hFk;
fhyepi yary; vdgJ fhyepi yaid; mwptary;
ghpt hFk;

- GtNfhs tbtkhDJ Mj yhy; Gt pary; Nkwguggpy; #hpa f j j hfs; xNu rthf
tpOtJ , yi y. Gt pary; J Utg; gFj pfs; #hpa Di la rha;thd f j j hfs;
ngWf pdwd. mj dhy; mqF #hpa ntsprrk; Fi wthfNth myyJ , yyhkNyh
, Uggj hy; mqF kpf; fLk; Fsh; epyTf pwJ. Gkjj pa Nui fi ar; RwwpAss
gFj pfs py; #hpa f j j hfs; nrqFj j hf tpOtj hy; mqF fhyepi yahdJ kpfTk;
ntggki l aj hfTk> FshfhyNk , yyhj j hfTk; cssJ. ntggepi yary; VwgLk;
khwwqfNs eNuhl j j pwFk>fhwNwhl j j pwFk; fhuz khf c ssd. ntggf;fhww

tspkzlyjy; Nky; Nehf; nry;tjhy; mt;tljy; fhwwpd; mOj k;
Fi wthf cSSJ. mj dhy; Fshfhww GtpF mUfNyNa j qfptLfpdwJ.

fhyepi y kwWk; thdpi yad; Kffpf;\$Wfs;

- ntggepi y> ki o tbrp fhwwOj jk>uggj k; kwWk; fhww Mfpai t fhyepi y kwWk; thdpi yad; Kffpf; \$WfshFk;

ntgg epi y (Temperature):

- ntgg epi y vdgJ> thdpi y kwWk; fhyepi yad; Kffpkhd \$W MFk; GtpAk; mj d; tsp kzlyk; #hpadpd; ntgg fjhtlyhy; ntggk; mi lfpdw. ntggepi y vdgJ fhwwpy; cSS ntggjpd; msi t FwpgghFk; fhwwYss ntggkhdJ #hpa fjhtlyhy; klLkpdwp tspszly epi wi aAk; rpwjst rhhe;JssJ. ntggkhdJ Gtpi a teji lAk; fjhtlyhy; fhyji jg; nghWj;Jk; Gtp ntggfjhtlyhy; msi t nghWj;Jk; ntggk; ,lj jpwF ,lk; khWgLfpdwJ. ,jwF fhuz k; Gtpad; , affqfs> j dRowr #hpa d tyk; tUj y; kwWk; Gtp mrrpd; rha;Tj; j di k MfpadthFk;

ntggepi y khdp

- ntgg epi y>uggj jpd; msT> Mtpahj y> j utkhj y> nghopT Mfpitwmpd; msTfspy; j hf; j j VwgLj; J fpwJ.
- #hpa fjhtlyhy; ngwggLk; ntgg Mwwy; %dW topki wfsy; Gtpi a teji lfpwJ. mi t ntgg fjhtlyhy; ntggf; flj j y; kwWk; ntggr; rydk; MFk; Gtpad; tspszlyk> #hpa fjhtlyhy; tpi Gtp fjhtlyhy; jhd; mj pf ntggk; mi lfpwJ.

ntggepi y nrqFjjhfTk; fpi lkl; khfTk; NtWgLfpwJ. ntggk; khWk; kzlyjy> ntggepi yahdJ 1000 kl;h; cauj jpwF 6.5°C vdw msty; ntggepi y Fi weJ nfhz NI nryfpwJ. , jid ntgg Fi wT tj k; vdW mi oggh;

ntggguti y j khdp;Fk; fhuz pfs;

- mlrNui f> cauk> epyj jpd; j di k> fly; eNuhl; k> tRk; fhww> rhpT> , Uggpl k> flypyUeJ J}uk> , awi fj; jhtuqfs> kz; Mfpai t ntggguti y ghj pf;Fk; Kffpafhuz pshFk;

epyti uglqfsy; thdpi yf; \$Wfspd; guti yr; rk msTf; NfhL ti ugl k; %yk; fhz gpf;fggLfpwJ. rk msTf; NfhL vdgJ rk msTss , lqfi s , iz ggj hFk; , fnfhLfs; thdpi yf; \$Wfspd; mbggi li af; nfhz L msTfNfhLfs; nttNtW ngahfsy; mi of;fggLfpdwd.

I Nrhnj hk; (Isotherm)	rkntggf; NfhL
I Nrhfj uk; (Isocryme)	ruhrhp rkntggepi yfNfhL
I Nrhnfy; (Isohel)	rk #hpa ntsprf; NfhL
I nryNyhgh; (Isollobar)	rk fhwwOj j khWghl;Lf; NfhL
I Nrhgh; (Isobar)	rk fhwwOj j f; NfhL
I Nrhi ` I; ; (Isohytes)	rk ki oasTf; NfhL

ntggepi yi a mstlj y;

- ntggepi y vdgJ xU Fwggpl i fd mST fhwwpy; Fwggpl i Neujjpy; mtpi ggLfjwJ. , J nryrpa] > ghud; i; kwWk; nfytpd; mSTfshy; mstpi ggLj hFk; thdpi y Mathshfs; ntggepi yi a msf ntggkhdp] Btdrd; jpi u ntggkhdp kwWk; Fi wej glr mjpf glr ntggkhdp %yKk; fz ffpLfwwhhfs; #hraf; fjthfsypUeJ Gtp ngWfjdw ntgg MwwyhdJ ntsiNaWfjdw Gtp fjthryhy; , offggLfjwJ. tszk iyk; Gtpfjthryhy; ntsiNawWk; ntggjjhy; gpwgfy; 2.00 kz japyUeJ 4.00 kz pfFs; mjpf ntggki lfjwJ. Mi fahy; ehsNj hWk; mjpf glr ntggepi y gpwgfy; 2.00 kz japyUeJ 4.00 kz pfFs; gjpthfjwJ. Fi wej glr ntggepi y mjpfhi y 4.00 kz pKj y; #hpa c j aj j wF Kd; gjpthfjwJ.

ntggepi y tR (Mean Temperature):

- Xh; , ljjpy; 24 kz p NeujjpwFs; epyTk; mjpf glr kwWk; Fi wej glr ntggepi yfFk; , i l NaAss ruhrhpNa ntggepi y tR MFk; $(87^{\circ}\text{F} + 73^{\circ}\text{F}) / 2 = 80^{\circ}\text{F}$ xU ehsy; mi kAk; crr ntggepi yfFk; kwWk; er ntggepi yfFk; , i l NaAss NtWghL jpd ntggtpahgj p myyJ jpd rhp ntggepi y tR vdgglk; xU Mz bcd; mjpf ntggkhd ruhrhp khjjj wFk; Fi wej ntggkhd ruhrhp khjjj wFk; , i l NaAss NtWghl bwF Mz L ntggtpahgj p vdW ngah;
- ntggepi y guti yr; rkntgg NfhLfs; %yk; fhz yhk; rk mST ntggepi yf; nfhz i , l qfi s , i z j J ti u agglk; fwi df; NfhLfs; rkntgg NfhLfs; MFk;

Gtjpd; ntgg kz i yqfs;

- Gtjpd; Nfhs tbtNk nttNtW , l qfsy; nttNtW ntggepi yi ag; ngWtjwF fhuz khf mi kfjwJ. mji d mbggi lahf nfhz L Gtp %dW ntgg kz i yqfshfg; ghpf fggLssd.

ntgg kz i yk; (Torrid Zone):

- , ggFj p fl f Nui fFk > kfuNui fFk; , i l ggl i gFj pahFk; , J #hpadp kUeJ nrqFjjhd fjthfi sg; ngWtjhy; mjpf glr khd ntggjjjg; ngWfjwJ. , kkz iyk; ntggkz i yk; myyJ mad kz i yk; vdWk; mi offggLfjwJ.

kj ntgg kz i yk; (Temperate Zone)

- tl mi u Nfhsjjpy; fl f Nui fFk > Mhbf; tljjj wFk; , i l ggl i gFj pahfTk > nj d; mi u Nfhsjjpy; kfuNui fFk; mz l hhbffh tljjj wFk; , i l ggl i g; gFj pahf mi keJssJ. , J #hpadp; rha;thdf; fjthfi sg; ngWtjhyk; #hpa fjthfspd; gLNfhz k; JUtjij Nehffr; nryy; nryy Fi wfjwJ. vdNt , kkz iyk; kj ntggkz i yk; vdW mi offggLfjwJ.

Fst; kz i yk; (ci wggdp kz i yk) (Frigid zone):

- ci wggdp kz i yk; Mhbf; tljjj wFk > tlJUtggFj pfF , i l NaAk > mz l hhl bf; tljjj wFk; nj dJUtggFj pfF , i l NaAk; mi keJssJ. , qF Mz L KOtJk; Fi wej ntggjjjg; ngWtjhy; , gguNj rk; gdpahy; #ogglLssJ. , ggFj p JUt kz i yk; vdW mi offggLfjwJ.

mjpf glr ntgg epi y / Fi wthd ntgg epi y:

Gtjapy; , J ti u gjpthd kpf mjpf glr ntggepi y 56.7°C (134°F). , J 1913 Mk; Mz L [i y 10 Mk; ehs; mnkhpff l fpa ehl bcd; fyNghhdpahtpYss fthdyheJ ki yj nj hl h; (kuz g; gssjj hfF) vdW , ljjpy; gjpthfAssJ.

, J ti u gjpthd Fi wej glr ntggepi y (-89.2°C) (-129.6°F 184.OK) , J 1983 Mk; Mz L [i y 21 Mk; ehs; mz l hhbffhtpy; css Nrhtpaj;

Nth] l f; epi yaj j py; gj pthf pAssJ.

ki ognghopT (Rain Fall):

- ts pkz l y ehtp eh; RUqFj y; %yk; Ghj epi yi a mi leJ Gt p khgG tpi rapd; fhuz khf fbNehffp t pOk; jput eNu ki o nghopT v dggLk; ehRowr p apd; Kf f pa \$W ki oahFk; , J Gt p ay; eddl u c Uthf Ff p d w J. ki oeNu vyyhti fahd eUfFk; Kf f pakhd Mj uhkhf tpsqFf p w J. ntggepi y kwWk> ki ogutYfFk; , i l Na neUqf pa nj hl hg c ss J. nghJ thf ki ognghopT epyeL f Nfhl Lg; gFj p f s py; mj p f khf Tk> J UtggFj p f i s Nehffp; nryy; nryy ki oapd; mst Fi wf p w J. ki ognghopT ki o khdpahy; mst pl ggL f p w J.

fhwwpd; mOj j k; (Air Pressure):

- Gt p ad; Nkwguggpy; Fwggpl l gFj p ay s s c ss fhwwpd; vi l Na ts pkz l y mOj j k; myyJ fhwwOj j k; v dggLk; fhwwpd; mOj j k; fhwwOj j khdpahy; mst pl ggL f p w J. fly; kl l j j y; c ss epi yahd fhwwoj j j j p d; mst 1013.25 kpyy p gh; MFk; Gk p ay; c ss vyyhg; gFj p f s p Yk; fhwwOj j j j p d; mst 103 f p Nyh / r.n.r.kp MFk; epi yahd ts pkz l y mOj j NtWghl b dhy; fhwwOj j k; f i l ahf Tk; nrqFj j hf Tk; fhz ggL f p w J. , j i d mbggi l ahff; nfhz l fhwwpd; mOj j j i j Fi wej fhwwOj j kz l yk; v dWk> mj p f fhwwOj j kz l yk; v dWk; ti fggL j J f p d w dh;
- Fi wej fhwwOj j g; gFj p v d g J ts p k z l y g; gFj p f s p y; RwwAss gFj p f i s t pl mOj j k; Fi w thf , UfFk; , ggFj p i a Nehffp mOj j k; mj p f K s s gFj p ay; , UeJ fhwW t r k; mj p f fhwwOj j k; v d g J ts p k z l y g; gFj p f s p y; RwwAss gFj p f i s t pl mOj j k; mj p f khf , UfFk; fhwW , qf p UeJ Fi wej fhwwOj j g; gFj p i a Nehffp t r k;

c y f y; , J ti u gj p thd k p f mj p f gl r mOj j k; 1083 mb, Mk; Mz l brkgh; 31 Mk; Nj j p u~ ahty; c ss "mfhl" v d w , l j j y; fly; kl l j j y; gj p thd J. c y f y; , J ti u gj p thd k p f f; Fi wej mOj j k; 870mb mb 1929 brkgh; 12 Mk; Nj j p grggp; ngUqf l y y; c ss khp ah dh j p t w F mUf y; c ss "Fthk" v d w f l y; gFj p ay; c Uthd i l G d p d; fz ; gFj p ay; gj p thd j h f k;

- Fi w thd fhwwOj j kz l yk; "L" v d w v Oj j h Yk; mj p f fhwwOj j kz l y j i j "H" v d w v Oj j h Yk; thd pi y ti ugg l j j y; Fw p f f ggL f p w J. Fi wej mOj j kz l yk; fhwwOj j j hoT kz l yk; v d Wk> #whtsp v d Wk; mi off f ggL f p w J. mj p f mOj j kz l yk; v j th; #whtsp fhwWfs; v d W mi off f ggL f p w J. Fi wej mOj j kz l yk; Nkf %l j j j Ak> fhwi w Ak> ki og; nghopi t Ak; c Uthf Ff p w J. mj p f mOj j kz l yk; mi k j ah d thd pi yi aj; j Uf p w J. rk mOj j f Nfhl (l Nrhghh) rk mst s s fhwwOj j j j p d; guti y fhz g; gadg L f p w J.
- kdj hfs; r w p a mst fhwwOj j NtWghl l hy; nghJ thf ghj p f f ggL t j p y i y. Mdhy; r w p a fhwwOj j NtWghl k p f g n g h p a mst y; c ss NghJ Gt p ad; fhwwi kgi g Ak> Gay; fhwi w Ak; j h kh d p f f p w J. ts pkz l y mOj j j i j fl LggL j J k; fhuz p fs; c auk> ts pkz l y ntggepi y> fhwW Rowr p Gk p ad; j d Rowr p ehtp kwWk; ts pkz l y g; Gayfs; Nghdwi tahFk;

fhwwOj j j i j mst pl j y;

- thd pi y Mathshfs; fhwwOj j j i j fhwwOj j khdp myyJ md p u h a L fhwwOj j khdp %yk; ms f f p d w dh; ts pkz l y mOj j NtWghl i l nj hl h r r p ah fg; gj p T nraa fhwwOj j g; gj p T j j hs; (Barograms) gadg L f p w J.

<uggj k; (Humidity):

xU Fwpggpl i , l j j py; Fwpggpl i Neuj j py; fhwwpy; c ss elhtp apd; mST <uggj k; vd mi of fggLf p w J . , J t s p k z i y j j p d; n j h F j p a r y; 0 - 5% t i u , U f F k; <uggj k; t s p k z i y j j p d; xU K f f p a m q f k h F k; t s p k z i y j j p y; <uggj j p d; mST ntgg e p i y a p d; m s i t n g h W j J m i k f w J . m j d h y; <uggj j j p d; mST e p y e L f N f h l b y p U e J J U t j i j N e h f f p r; n r y; Y k N g h J F i w f p w J . f h w w p y; c s s <uggj j i j m s t p l g y N t W m s t l l K i w f s; c s s d.

- **Ra <uggj k; (Specific Humidity):** xU Fwpggpl i v i l f n f h z i l f h w w p Y s s e l h t p a p d; v i l <uggj k; v d g g L k; n g h J t h f f u h k; e l h t p / f i N y h f u h k; f h w W v d f; F w j j f; f h l i g g L f p w J .

c z i k a h d <uggj k; (Absolute Humidity):

- xU Fwpggpl i f d m s T s s f h w w p y; c s s e l h t p a p d; v i l f F c z i k a h d <uggj k; v d W n g a h; , J xU f d k l i h; f h w w p y; v t t s T f u h k; e l h t p c s s J v d f; F w j j f; f h l i g g L f p w J .

- **xgG <uggj k; (Relative Humidity):** xU Fwpggpl i n t g g e p i y a r y; xU Fwpggpl i f d m s T s s f h w w p y; v t t s T e l h t p , U f f K b A N k h m e j m s t p w F k; m N j r k a k; m f f h w w p y; j w N g h J v t t s T e l h t p c s s N j h m e j m s t p w F k; c s s t p f j k; x g G <uggj k; v d g g L k; , J r u h r h p r j t p f j K i w a r y; f h z g g L f p w J .

<uggj j i j m s j j y; (Measurement of Humidity)

- <u e p i y k h d p (i ` f N u h k l i h) n f h z l f h w w p d; < u g g j j i j m s f f y h k; () t d r d; j p i u a r y; t w z i k w W k; < u F k p; f l l f s; x t n t h d w h f m L f f g g l i j h F k) n g h J t h f n t g g f h w W F s h f h w i w t p l m j p f e l h t p i a j; j f f i t j J f n f h s S k; f h w w p y; x g G < u g g j k; 100% m i l A k n g h O J f h w W G h j e p i y i a m i l A k; , e j g; G h j e p i y i a a r y; n t g g e p i y g d p g G s s p e p i y f F r; n r d W t p L k; , e j e l h t p N k Y k; F s h t i l e J e h; R U f f k h f p N k f q f s; k w W k; k i o f F t p j j p L f p w J . x g G < u g g j k; k d j d p d; c l y; e y j i j A k; M N u h f f p a j i j A k; g h j p f f p w J . m j p f k w W k; F i w e j < u g g j k; c l y; e y j j p w F j k f t p i s t p f F k; , J g y N t W n g h U l f s > f l i q f s > k p d r h j d n g h U l f s p d; e p i y j j d i k i a g; g h j p f F k;

f h w w p d; m O j j k; F i w t j d h y; f h w w p y; R t h r p g g j w f h d M f i p l d p d; m s T k; F i w f p w J . k p f c a u k h d , l q f s y; f h w w p y; M f i p l d p d; m s T k; f h w w p d; m O j j K k; k p f T k; F i w t h f c s s J (m j d h y; k d j h f s; m q F , w f f f; \$ L k) V W k n g h O J M f i p l i d c U i s a y; m i l j J v L j J r; n r y f p d w d h; m t h f s; r p w J f h y m t f h r k; v L j J f; n f h z l m j p f c a u q f S f F j; j k i k g o f f g; g L j j p f; n f h s f p d w d h; V n d d p y; m O j j k; m j p f k h d , l q f S f F r; n r y; Y k; n g h O J % r R j j p z w y; V w g L k; t p k h d q f s y; n r a w i f m O j j j i j c U t h f f p g a z p f i s t r j a h f R t h r p f F k g b m i k j J s s d h;

f h w W:

- f p i l k l i k h f e f U k; t h A t p w F f h w W v d W n g a h; n r q F j j h f e f U k; t h A t p w F f h w W w h l i k; v d W n g a h; f h w W v g n g h O J k; c a h; m O j j g g F j p f s p y p U e J F i w e j m O j j g F j p i a N e h f f p t R k; f h w w h y; c U t h f f g g L k; R o y; f h w W k w W k; f L k; f h w i w c z u j j h d; K b A k; g h h f f K b a h J . f h w W v j j p i r a p y p U e J t R f p w N j h m N j n g a h p y; m i o f f g g L f p w J . v . f h . n j d N k w F g; g F j p a r y p U e J t R k; f h w w p w F n j d N k w F g; g U t f f h w W v d W n g a h;

f h w w p d; m i k g G f s; % d W n g U k; t i f f s h f g; g h p f f g g l L s s d . m i t a h t d .

1. N f h s; f h w W f s; m y y J e p e j u f h w W f s; (P l a n e t a r y W i n d s)
2. g U t f; f h y f; f h w W f s; k w W k; (S e a s o n a l w i n d s)

3. j yf; fhwWfs; myyJ gµNj rf; fhwWfs; (Local winds)

cyfNyNa Kj d; Kj yhf fhyepi y ti ugl qfspd; nj hFgi gj; my; - gyh` p
vdw mNugpa ehl L Gtāpāy; ty;Yeh; mNugpaehhl L gaz pf s pl k p UeJ fhyepi yg;
gwwpa tptuqfi sr; Nrfhj J ntsapl l hh.

Nfhs; fhwWfs;

• Mz l OotJk; xNu j pi ri a Nehf;fp tRk; fhwWfs; Nfhs; fhwWfs; myyJ
epi yahd fhwW vdW mi oggh. v.fh. t p ahghuf; fhwW> Nki yf;fhwW>
JUttf;fhwW> gUtff;fhyf; fhwW vdGJ gUtjj p w F VwwthW mj d; j pi ri a
khwwp tRk; , f;fhwWfs; Nfhi l f;fhyjj y; flyypUeJ epi yj ij Nehf;fAk>
Fshfhyjj y; epyjj yUeJ fli y Nehf;fAk; tRk; j yffhwWfs; myyJ
gµNj rf; fhwWfs; vdGJ xU ehs; myyJ Mz bd; Fwfpā fhyjj y; Fwggpl l
Neuj j y; xU rmpā gFj pāy; tRk; v.fh. epyf;fhwW> fly; fhwW.

gpNurpāy; ngUkgFj pāy; fhwwpd; Ntfk; Fi wthf c ssJ. Mgghp;fhtpd; fhghd>
fhqNfh kwWk; DR fhqNfh> Rkj uh. , eNj hNdrpāh kNyrpāh Mfpai t Gk pāy;
Fi wej fhwW tRk; gFj pāhFk;

gpNahNghhL msi t vdw fUtp fhwwpd; Ntfjij mstpl gadgLfpwJ. , J
, gngghOJ cyfk; KOtJk; gadghl by; c ssJ. , ffUtp 1805 Mk; Mz l
, uhay; fggwgi l mj pfh pāhd gµhd;rp] ; gpNahNghhL mthfshy; c Uthf;fggl l J.
, ffUtpi a Kj d; Kj ypy; vr;vk:v] ; gFhyhy; mj pfhugGh;tkhf gadgLj j ggl l J.

fhwwpd; j pi r kwWk; Ntfjij mstpl y;

• thdpi y ty;Yehfs; fhwwpd; j pi ri a mstpl fhwWkhd p myyJ fhwW
j pi rffhl b vdw fUtpfi sg; gadgLj Jfpdwdh; fhwwpd; Ntfjij msf;f
mdpkhkl l h; vdw fUtp gadgLj j ggLfpwJ. t p z l Nuh] ; vdGJ fhwwpd;
j pi ri aAk> tRk; fhyjij Ak; epyti ugljj y; FwppFk; xU ti ugl k;
kl bNuhfuhg; myyJ bhgg y; hp[p] l h; vdw fUtp fhwwpd; j pi r> Ntfk; #hpa
ntsprrk> mdpkhki o Mfpā thdpi yf; \$Wfi sg; ti uNfhl Lggll j j pd; %yk;
gj pT nraAk; fUtpāhFk;

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Unit - 2

, ej jah - fhyepi y kwWk; , awi fj; jhtuqfs;

mwkfk;

- ehk; Nfhi l f;fhyj j py; mj pfkhf j z z l ug; gUFfNwhk; Mdhy; Fsp; fhyj j py; mNj msT j z z l ug; gUFTj pyi y. tl , ej phtpy; Nfhi l f;fhyj j py; nkdi kahd gUjj pahyhd Mi l fi sAk; Fsp;fhyj j py; fkgsp Mi l fi sAk; Vd; mz pfNwhk? nj ddpej pa kf;fs; Fsp;fhyj j py; fkgsp Mi l fi s mz jah J Vd? Vnddpy> tl kwWk; nj ddpej phtpy; j l gntggepi y khWgLtNj , j wF fhuz khFk;
- Kei ja mj j pahaj j py; , ej phtpd; epyj Nj hww mi kgG kwWk; tbfhyi kgG vt;thw RwWr; #oYld; nj hl uGi laJ vdgi j fwwwpeNj hk; , ej mj j pahaj j py; , ej phtpd; fhyepi y> ki ogguty> , awi fj; jhtuqfs; kwWk; td tpyqFfi sg; gwwp fwNghk;

rkrrl; fhyepi y vdgi 'gppb~; fhyepi y' vdWk; mi of;fggLfwwJ. , f;fhyepi y mj pntggKi laj hfNth myyJ kpf;Fsp;Ui laj hfNth , Uf;fhJ.

, ej ja fhyepi yi a epuz apf;Fk; fhuz pfs;

- mlrk; guty> flyyUeJ mi keJss njhi yT> fly; kl; j j pyUeJ c auk> gUf;fhww> epyj Nj hwwk> n[l; fhwwfs; Nghdwi t , ej ja fhyepi yi a ghj pf;Fk; fhuz pfshFk;

mlrqfs;

- , ej jah 8°4' tl mlrk; Kj y; 37°6' tl mlrk; ti u mi keJssJ. 23°30' tl mlrkhd fl fNui f ehl; l , U rkgfhqfshf gppf;fwJ. fl fNui ff;F nj wNf mi keJss gFj pfs; Mz L KOTJk; mj pntggKk; kpf Fsp;ww #oYk; epyTfwwJ. fl fNui ff;F tl fNf css gFj pfs; kj ntgg fhyepi yi af; nfhz LssJ. Nfhi l f;fhyj j py; , ggFj p;pd; ntggk; 40°C-f;F NkyhfTk; Fsp; fhyj j py; ntggepi y ci wepi yi a xlbAk; cssd.

c auk;

- GtgguggpyUeJ caNu nryy nryy tszk; l yj j py; xtnthU 1000 kl; l u; cauj j wFk; 6.5°C vdW mstpy; ntggepi y Fi wfwJ. , j wF “, ayG ntgg tbrpi” vdW ngau; vdNt rkntsp; gFj pfi sf; fh; bYk; ki yggFj pfs; Fsp;hf , Uf;Fk; cji f> nj ddpej phtpd; , ju ki o thopl qfs; kwWk; , kaki yary; mi keJss Knrsup rkyh> Nghdw gFj pfs; rkntspfi stpl kpfTk; Fsp;hf cssJ.

flyyUeJ mi keJss njhi yT

- flyyUeJ mi keJss njhi yT> ntggk; kwWk; mOjj NtWghLfi sj; Nj hwWtggg d; %yk; ki ognghopi tAk; ghj pf;fwJ. , ej phtpd; ngUkgFj p Fwggghf j gfwg , ej jah flyyUeJ ntFnh; i yty; , yi y. , j d; fhuz khf , ggFj p KOTJk; epyTk; fhyepi y fly; rhu; Mj pf;fj i j nfhz LssJ. , ggFj pary; Fsp;fhyk; Fsp;ww fhz ggLk; tUl k; KOTJk; r;hd ntggepi yi af; nfhz LssJ.

- fl yfspd; Mj pffkpd; k fhuz khf kjjpa kwWk; tl , ejpa gFj pfs; ntggapi yary; gUtfhy khWghLfi sf; nfhz Lssd. , qF Nfhi lay; fLkntggKk; kwWk; Fsp; fhyjj py; fLk; FspUk; epyTfwpJ. nfhrp fl wfi u gFj pary; mi kej pUggj hy; , jd; tUl hej p ruhrup ntggk; 30°C mSTfF kpfhky; cssJ. khwhf fl wfi uarypUeJ ntF njhi yty; mi keJss GJbyypapd; tUl hej p ruhrup ntggk; 40°C fFk; mj pffkhf cssJ. fl wfi u gFj pary; fhwwpy; <uggj k; kFfeJ , Uggj hy; , i t mj pf ki oj j Uk; jwi df; nfhz LssJ. , j dhy; fl wfi ufF mUfYss nfhyfjjhtpy; ki ognghopT 119 nr.kp MfTk; c s; gFj pary; mi kej pUfFk; gpfhdpy; (, uh[] j hd) 24 nr.kp fF Fi wthd ki ognghopT gj pthf pdwJ.

gUtfhy fhwW

- , ej pahtpd; fhyepi yi ag; ghj pffk; kpf Kffpa fhuz p gUtf; fhwwhFk; , i t gUtgfS fNfwg khwp tRk; fhwWfshFk; , ej pah xU Mz bd; fdprkhd fhyjj py; gUtfhfwWfspd; j hf fj j wF c sshfwpJ. , ej pahtpy; #uapd; nrqFj Jf; fj wfs; [_d; khj kjj pary; tOf pdwng hOj pYk; Nfhi l f; fhyk; Nk khj , Wj pary; Kbt il fwpJ. Vnddpy; nj dNkwF gUtfhfwW nj hl ffj j pd; fhuz khf ntggapi y Fi weJ , ej pahtpd; gy gFj pfs fF kj kh dJ Kj y; fdki o ti u nghopfwJ. , Nj Nghy; nj d f p f F , ej pahtpd; fhyepi yAk; tl f p f F gUtf; fhwwpd; Mj pffj j wF c l gLfwJ.

thdpi y vdgJ xU Fwggpl l , l j j py; c s s t s p k z l y j j pd; j d i k i a f; Fwggj hFk;

fhyepi y vdgJ xU Fwggpl l gFj p apd; Rkhu; 30 – 35 Mz l ruhrup thdpi yi af; Fwggj hFk;

epyj Nj hwwk;

- , ej pahtpd; epyj Nj hwwk> fhyepi y apd; Kffpa \$Wfshd ntggapi y> t s p k z l y m O j j k > fhwwpd; j p i r kwWk; ki oasi t ngUkstpy; ghj pffpdwJ. , kaki yfs; kjjpa MrpahtpyUeJ tRk; fLk; Fsp; fhwi w j L j J > , ej pa Ji z f; fz l j j j ntgg; gFj pahf i t j j p U f f w J . , j dhy; Fsp; fhyjj pYk; tl , ej pah ntgg kz l y fhyepi yi af; nfhz LssJ. nj dNkwF gUtfhfwW fhyqfspy; NkwF nj hl urrp ki yfspd; NkwF rupTggFj p fd ki oi ag; ngWfwpJ. khwhf kfuh~buh> fuehl fh> nj yqfhdh> Mej pggpNj rk; kwWk; j k p e h l b d; ngUk; gFj pfs; NkwF nj hl urrp ki yfspd; ki yki wTg; gFj p myyJ fhwW Nkhj hggf; f j j py; mi kej pUggj hy; k p f f ; F i w e j m s T k i o i a g ; n g W f p d w d . , g g U t j j p y ; N k w F f l w f i u a r y ; m i k e J s s k q f @ u ; 2 8 0 n r . k p k i o g n g h o p i t A k > k i y k i w T g ; g F j p a r y ; m i k e J s s n g q f @ U 5 0 n r . k p k i o g n g h o p i t A k ; n g W f p d w d .

n[l ; fhwNwhl l qfs;

- t s p k z l y j j p d ; c a u ; m L f ; F f s p y ; F W f p a g F j p f s p y ; N t f k h f e f U k ; f h w W f s ; “n[l ; fhwWfs” v d ; f ; n w h k ; n [l ; f h w N w h l l N f h l g h l b d ; g b > c g m a d N k i y f h w N w h l l k ; t l n g U k ; r k n t s p f s p y U e J j n g j j a g l G k p i a N e h f f p , l k n g a u t j h y ; n j d N k w F g U t f f h w W c U t h f p d w J . f l o n [l ; f h w N w h l l q f s ; n j d N k w F k w W k ; g p d d i l A k ; g U t f f h w W f h y q f s p y ; n t g g k z l y j h o t O j j q f i s c U t h f F p d w d .

gUtfhfwW

- “khd#d” vdW nrhy; “nksrk” vdW muG nrhyypUeJ ngwggLjJ. , j d; nghUs; gUtFhyk; MFk; gUt Fhyk; vdW nrhy; gy E}wwhz LfS fF Kddu; muG khYkpfshy; , ej jagngUqfIy; fl wfi ug; gFj fsy; Fwggf mugffIy; gUtqfS fNfwg khwp tRk; fhwWfi s FwggLtj wF gadgLjj ggljJ. , ffhwW Nfhi lffhyj jpy; nj dNkwF jpi rarypUeJ tI fpoF Nehf;f;Ak> Fsp;fhyj jpy; tI fpoF jpi rarypUeJ nj dNkwF Nehf;f;Ak; tRf;wJ.
- gUtffhyf; fhwWfs; vsj jpy; GupeJ fnfhss , ayhj xU rpfyhd epfo;T MFk; thdpi y ty;Yeufs; gUtffhy Nj hwwj j jg; gwpp gy Nfhl ghLfi s c Uthf;f;Assdu;
- , aq;F Nfhl ghi bdgb> #upad; epi yfF Vwg gUtFhy , l nggaurthFk; tsp mOjj kz ;lyqfshy; gUtffhwWfs; c Uthf;f;dw. tI Nfhs c rr Nfhi lapy; #upad; nrq;Fj;J ffj ; fl f Nui fapdkU t;Of;dwJ. , j dhy; mi dj;J tsp mOjj kwWk; fhwW kz ;lyqfs; tI fF Nehf;f; , l kngaurf;dw. , rrkaj j jpy; , i l madf; Ftp kz ;lyKk; (ITCZ) tI fF Nehf;f; efutj hy; , ej ;aht; ngUk; gFj ; nj d; fpoF t;ahghuf; fhww; Mj ;f; j j wF c sshf;dw. , f;fhwW Gk; j j ;a Nui fi af; fl fFk; NghJ Gtp Rowr;ahy; VwgLk; tpi rapd; fhuz khf tI fpoF Nehf;f; tRf;wJ. , J nj dNkwf;ypUeJ tRtj hy; nj dNkwF gUtff;hwwhf khWf;wJ.
- Fsp;gUtj j jpy; ts;Ojj kwWk; fhwW kz ;lyqfs; nj wFNehf;f; efutj d%yk; tI fpoF gUtffhwW c Uthf;f;dwJ. , t;thW gUtqfS fNfwwthW j qfs; jpi rfi s khwwf;nfhz l tRk; Nfhs; fhwWfi sg; gUtffhwW vd;f;Nwhk;

gUtffhyqfs;

- thdpi y egZ ufs; , ej ;a fhyepi yary; ehd;F gUtq;fi s mi lahsk; fz ;Lssdu; mi t.
1. Fsp;fhyk; [dtup Kj y; ggutup ti u
 2. Nfhi lffhyk; khur; Kj y; Nk ti u
 3. nj dNkwF gUtffhwW fhyk; myyJ ki offhyk; [_d; Kj y; nrgl kgu; ti u
 4. tI fpoF gUt; fhwW fhyk; mfNI hgu; Kj y; brkgu; ti u

1. Fsp;fhyk; (m) Fsp; gUt;

- , f;fhyj j jpy; #upad; nrq;Fj;J fj ;fs; , ej ;aht;ypUeJ ntFnj hi ytpYss kfuNui fapd; kU nrq;Fj;J hf t;Of;wJ. , j dhy; , ej ;a gFj ; rhat;hd #upaf;f; j j ; sg; ngWf;wJ. , Jnt Fi wej ntggj j wF fhuz khf c ssJ. nj s;thd thdk> r;wej thdpi y> nkdi kahd tI fF fhwWfs> Fi wej <uggj k; kwWk; k;F; j ;drup gfyNeu ntgg NtWghLfs; Mf;ad , ggUj j ;d; Fz hj ;raqfs; , ggUtj j jpy; tI , ej ;aht;py; Xu; cau; mOj j k; c Uthf; fhwW tI Nkwf;ypUeJ r;eJ-fqi f gssj j hf;Ffs; topahf tRf;wJ. nj dd;ej ;aht;py; fhww; jpi rahdJ fpo;f;ypUeJ Nkwfhf c ssJ. ruhrup ntgg epi yahdJ tI f;f;ypUeJ nj wNf mj ;f;up;f;wJ. ehl;bd; tI NkwF gFj ;py; tI fF Nehf;f; nry;Ykng;hOJ ntggk; fz ;rk;hf Fi wf;wJ.
- xU ehsp; Fi wej glr ruhrup ntgg;epi yahdJ nj dd;ej ;aht;py; 22°C ypUeJ tI fF rknts;f;sy; 10°C MfTk; gQrhg; rknts;py; 6°C MfTk; c ssJ NkwF , kaki y> j k;pehL> Nfush Mf; ;a gFj ;fs; , ggUtj j jpy; ki oi ag; ngWf;dw. , f;fhyj j jpy; k; j j ;aj ; j i u;f;Iy; gFj ;py; c UthFk; Nkwf; j j ;a

, i lAWl d; j hotOj j qfs; tl , ej pahty; ki oi aj; j Ufwd. , ffwj w
 , ej pahtwF nfhz LtUtjy; n[l; fhwNwhl; k; Kffpa gqF tfffwJ.
 , ffwwhdJ gOrhg> ` upahdh> , khrry; gNj rj j y; ki og; nghopi tAk>
 [kK fh~klpd; ki yg; gFj pfsy; gdtg; nghopi tAk; j UfwJ. , kki o
 Fspufhy NfhJi k gapul YfF kpfTk; gadsfffwJ.

2. Kd; gUtffhwWf; fhyk; myyJ Nfhi l f; fhyk;

- , ggUtj j y; #upadpd; nrqFj; Jf; fj pfs; , ej pa j bfwg j j pd; kU tOffwJ.
 vdNt ntggepi y nj wfyUeJ tlfF Nehffp mj puffwJ. Nfhi l f; fhyj j pd;
 KwgFj pary; ehL KOtJk; ntggkhd twz; l thdpi y epyTfwJ. Nfhi l f;
 fhyj j pd; k j j paryk> , Wj paryk; epyggFj p , bAl d; \$ba Myqfl b ki oapd;
 Mj pffj j wF c l gLfwJ.
- , ggUtj j y; , ej pah KOtJk; ntggk; mj puffwJ. Vguy; khj j j y; nj d;
 , ej pa c l gFj pfsy; j pd ruhrup ntggepi y 30°C - 35°C Mf gj pthfwJ.
 k j j pa , ej pa epyggFj p; gy gFj pfsy; gfy; Neu crr ntggepi y 40°C
 Mf c ssJ. , ggUtj j y; F[uhj> tlfF kfuh~l buh> uh[] j hd; kwWk;
 tlfF k j j pggNj rj j y; gy , l qfs; mj p f gfy; Neu ntggj i j Ak> Fi wej
 , uT Neu ntggj i j Ak; nfhz LssJ.
- tszkzly mOj j epi yapd; NtWghl; hy; mugpfl y; kwWk; tqff; fl y;
 gFj pfsy; fhwwhdJ nj d; NkwfyUeJ tlfF Nehffp tRfwJ.
 , ffwWfs; Nk khj j j y; NkwF fl wfi u gFj pS fF Kd; gUt fhy
 ki oi aj; j Ufwd. “khOrhuy?” (Mango shower) vdW , bAl d; \$ba
 ki oahdJ Nfush kwWk; fuehl f fl wfi u gFj pfsy; tpi sAk; “khqfha; fs;”
 tpi uty; Kj p; t j wF c j TfwJ.
- Vguy; kwWk; Nk khj qfsy; t l NkwF j pi raryUeJ tRk; j yf; fhwW
 ehunt] lu; myyJ fhyi grhf vdW mi offggLfwJ. , ffwW f; ffwW kwWk;
 tlfF gFj pshd gfh> NkwF tqfk; kwWk; mrhk; khepyqS fF , bAl d;
 \$ba FwF; fhy ki oi aj; j UfwJ.

3. nj dNkwF gUtffhwWf; fhyk; myyJ ki offhyk;

- , ej pa fhyepi yapd; Kffpa mkrkhf nj dNkwF gUtffhwW tpsq; FfwJ.
- gUtffhwW nghJ thf [_d; Kj y; thuj j y; , ej pahtpd; nj d; gFj pary;
 nj hl qfp nfhqfz f; fl wfi u gFj pF [_d; , uz; l htJ thuj j pYk; [_i y 15-
 , y; mi dj; J , ej pag; gFj pS fFk; KdNdWfwJ.
- cyfshtpa fhyepi y epfo; thd “vyepNdh” nj dNkwF gUtffhwWf; fhyj j y;
 kpfngupa j hf; j j VwgLj; JfwJ.
- nj dNkwF gUtffhwW nj hl qFtj wF Kd; tl , ej pahtpd; ntggepi yahdJ
 46°C ti u caUfwJ. , ggUtffhwWpd; , b kwWk; kpdYl d; \$ba Jtffk;
 (nj d; , ej pahty) ‘gUtki o ntbgG’ vdggLfwJ. , J , ej pahtpd;
 ntggepi yi a ngUksty; Fi wfwJ. , ffwW , ej pahtpd; nj d; Ki di a
 mi l AknghOJ , uz; l fpi sfshfg; gupfwJ. , j d; xU fpi s mugpfl y;
 topahfTk; kwnwhU fpi s tqfhs t p f h topahfTk; tRfwJ.
- nj dNkwF gUtffhwWpd; mugpfl y; fpi s NkwF nj hl urrp ki yapd; NkwFr;
 rupTfsy; Nkhj p gyj j ki og; nghopi t j UfwJ. , fpi sahdJ tlfF
 Nehffp efueJ , kaki yahy; j Lf; fggL tl , ej pah KOtJk; fdki oi aj;
 Nj hwWt pfwJ. Mutyyki yj; nj hl u; , ffwW tRk; j pi rF , i z ahf

mi keJssj hy; , uh[] j hd; kwWk; tl , ej phtpd; NkwF gFj pfF ki ognghopi t j Utj pyi y.

- tqfhs tppFlh fpi s> tl fpoF , ej pah kwWk; kphdki u Nehffp tRfWJ. , J fhrp fhNuh> n[aej pah FdWfshy; j LffggL Nkfhyahtpy; c ss nksrpdhky; (mawsynram) kpf fdki oi aj; j UfWJ. gpwF , ffhwW fpoF; fpyUeJ NkwF Nehffp efUkNghJ ki og; ngoptpd; msT Fi weJ nfhz NI nry;fWJ.
- , ej phtpd; xlL nkhhj ki ogngoptpy; 75 rj tjj ki og; ngopthdJ , ggUtffhwW fhyjj py; fpi lf;fWJ. j kpehL ki y ki wTg; gFj py; mi keJssj hy; Fi wthd ki oi ag; ngWfWJ.

4. tl fpoF gUtffhwWf; fhyk; myyJ gpdidi lAk; gUtffhwWf; fhyk;

- nrgl kgu; khj; , Wj py; mOjj kz ;lykhdJ Gt py; nj wF Nehffp efu Mukggg hy; nj dNkwF gUtffhwW gpdidi lAk; gUtffhwWf epyggFj pyUeJ tqfhs tppFlh Nehffp tRfWJ. Gkp Roy;tj hy; VwgLk; tpi rapd; (nfhuahyp] ; tpi r) fhuz khf fhwwpd; jpi r khwwggL tl fpoF; fpyUeJ tRfWJ. vdNt , ffhwW tl fpoF gUtffhwW vd mi of;fggLfWJ. , ggUtffhyk; , ej pa Ji z ffz l gFj py; tl fl of; fhwWj; nj hFj p Nj hd;Wtj wF fhuz khf c ssJ vdyhk;
- , ggUtffhwWpd; %yk; Nfush> Mej puh> j kpehL kwWk; nj d; fuehl fhtpd; c l gFj pfs; eyy ki ognghopi tg; ngWfpdwd. , ggFj pfs; nkhhj ki ogngoptpy; Rkhu; 35 rj tjj j j g; ngWfpdwd. tqff;fpy; c UthFk; Gayhy; j kpehl bd; gy gFj pfs k; Mej puh kwWk; fuehl fhtpd; rpy gFj pfs k; ki oi ag; ngWfpdwd.
- fl wfi ug; gpnj r qfsy; fdki oAl d; \$ba gyjj Gay; fhwW> ngUk; c apuNrj j j Ak> nghUl Nrj j j Ak; VwgLj ;J fWJ. , ggUtj j py; ehL KOtJk; gfy; Neu ntggepi y tbrpai l fWJ. ehL bd; tl NkwF gFj p; ruhrup ntgg epi yahdJ mFNI hgu; khj j j py; 38°C- , y; , UeJ etkgu; khj j j py; 28°C MF Fi wfWJ.

c au; rpej i d

- nksrpdhky; c yf;NyNa kpf mj pf ki ongWk; gFj pahf c ssJ. Vd?

ki og; guty;

- , ej phtpy; Mz l ruhrup ki oast 118 nr.kp , UggpDk; ehL bd; ki otbrripd; guty; rluwW fhz ggLfWJ. 11 rj tjj guggsT 200 nr.kl ; l Uf;Fk> mj pfkhd Mz l ki og; ngopti tAk> 21 rj tjj gugg> 125-200 nr.kp ki ognghopi tAk> 37 rj tjj epyggugG 75 - 125 nr.kp ki o ngopti tAk> 24 rj tjj epyggugG 35-75 nr.kp ki o ngopti tAk> 7 rj tjj epyggugG 35 nr.kl ; l Uf;F Fi wthd ki og; ngopti tAk; ngWfpdwd.
- NkwF fl wfi u> mrhk> Nkfhyahtpd; nj dgFj p j puGuh> ehfyheJ> mUz hr;ygguNj rk; Nghdw gFj pfs; 200 nr.kl ; l Uf;Fk; mj pfkhd ki ogngopti tAk; ngWfpdwd. uh[] j hd; kheyk; KOtJk> gOrhg> ` hrahdh> c j j pggguNj r kheyj j pd; NkwF kwWk; nj dNkwF gFj pfs> kjj jag; gpnj r j j pd; NkwF gFj p kwWk; NkwFj; nj hl urrp ki yarp; fpoF; gFj p kwWk; j ffhz g; gl Gkp gFj p kwWk; j kpf fl wfi uapd; xU FWf;aggFj p Nghdwi t

100 nr. kllUfFk; Fi wthd ki ognghopi tg; ngWfPdwd. kww gFj pfs; 100 Kjy; 200 nr.kp ti uaryhd ki ognghopi tg; ngWfPdwd.

12th

Unit 7 - Ngz j; j Fej NkkghL

mwKfk;

- flej rpy E}wwhz Lfsy; kdij dpd; thoT Ki wapy; j tlu khwwk; Vwgl bUffwJ. Ntshd; tsurrr nj horykakhfy> efukakhj y> mwptpay; kwWk; nj horyEl gqfspd; mj nTf tsurrr kdij dpd; , wgGtpfij j i j f; Fi wj J mj nTf kffs; nj hi fg; nghUffj j wF fhuz khf mi keJssJ. kffs; nj hi fgngUffk; mj pfupff mj pfupff , awi ftsqfspd; Nji t mj pfupj J tsqfi s msTfF mj pfkhf gadgJ j k; epi y c UthfapUffwJ. tsqfs; mgha epi yary; mopeJtUtij cz uj Jk; kwWk; mi j j; j Lj J vt;thW Ngz pf;fhggJ vdw cz i ki a mwpeJ ehLfs; tpoj J vOej pUffPdwd.
- , kKawrp , t;Tyfjij tsqfspd; epi yj di ki a Nehffpf; nfhz L nryfWJ. , ej epi yj; j di kahdJ fyhrrhu c augGj; j di k> MNuffpakhd nghUshj hu epi y> RwWr#oy; nghWgGz uT kwWk; rkj J t r%f; vDk; ehdF J jz fspdhy; CffggLj j ggLfWJ.
- j wNghJ mi dj J ehLfs k; Ngz j j Fej Nkkghl bd; kU ftdk; nrYj J fPdwd.

I ffa ehLfs; ri gAk; Ngz j j Fej NkkghLk;

- Ngz j j Fej NkkghL vdw fUj J Kj ypy; 1872 Mk; Mz L [èd; khj k; 16e; Nj j j] lhfN` hky; kdij d; thOk; #oy; vDk; j i yggpy; ei lngww l ffaehl Lfs; ri g fUj j uqfpy; epi wNtwggL nfhsfi ffsy; ntsapl ggl J. tsurrr vdgJ Ngz j; j Fej j hf , UffNtz Lk; vd j wNghJ cz uggLssJ. xU ehl bd; tsurrr vdgJ nghUshj huk; kwWk; r%f tsurri a klLk; rhuej j y khwhf , awi f tsqfi s vt;thW gadgJ j tJ vdgi j Ak; rhuej J. vdNt mtwwwFk; ehk; Kffaj Jtk; nfhlffNtz Lk; l ffaehl Lfs; ri gahdJ rutNj r r%fj j wfhd ez l fhy RwWr#oi yg; ghJ fhfFk; cjj pfi sf; fz l wpa tsuej kwWk; tsUk; ehLfsy; , UeJ 22 egufs; nfhz l FOi t gz j j J. , ej RwWr#oy; kwWk; tsurrrfhd cyf Mi z ak; (WCED) ehuNt ehl bd; mgNghi ja guj kuhd fNuh ` huyk; guz l yz l; (Gro Harlem Brundland) j i yi kapd; fb; nraygl J. , J guz l yz l; Mi z ak; vdWk; mi offggL J. , J j dJ fz l gbgGfi s ekJ nghJ thd vj pfhyk; (Our Common Future) vdw j i yggpd;fb; 1987Mk; tUl k; l ffaehl Lfs; ri gfF rkuggj j J.
- **guz l yz l;** mwfi fahdJ kdij ufspd; Nji tfs; kwWk; tUggqfS fF Kffaj Jtk; nfhlj j J. , J , awi f tsqfi s kl Lk; gfuej sggj d; %yk; gpdj qfpa ehLfspd; nghUshj hu tsurri a Nkkgl j j j mi dtUfFk; j qfs; mbggi l j; Nji t fi s ngw CffTf; Ntz Lk; vdW vj pfhy rej j apdUffhd cyfshtpa rkepi y vDk; fUj j rhuej j hFk; , ej Mi z ak; Ngz j j Fej Nkkghl b wfhd %dW Kffpa \$Wfi s mbfNfhl Lf; fh l baJ. mi tahtd> RwWr#oy> nghshj huk; kwWk; r%f; gpddu; , i t %dwb; Nfhi tfs; vd mi offggL d.

- 1992 kwWk; 2002 , y; upNah b n[dNuhNah kwWk; N[hfd] nguffiy; ei lngww Gtp crrp khehby; ei lngww l ffp ehLfs; RwWr#oy; kwWk; tsurrr Fwj j fUjjuqF , ej guz :lyz :; Mi z ajjpd; tpi sthf eljjggl;jhFk; upNah crrp khehbd; Kffpa rhji dahdJ fhyp y khwwk; gwwpa khehL fNahlNI h newpKi w (Kyoto Protocol) xggejjjpwF toptFjjJ. , i j g; gwwp eqfs; VwfdNt mwpeJ c s s l f s ; xggejjjpwF toptFjjJ. , i j g; gwwp eqfs; VwfdNt mwpeJ c s s l f s ;
- l f f p a e h L f s ; r i g e l j j p a N g z j j F e j N k k g h L f U j j u q F > u p N a h 2012+upNah+20 myyJ Gtp crrp khehL vdWk; mwaggl;j. , J NgzjjFej Nkkghl bwfhd %dwhtJ klLk; rkbjjpa fUjjuqF MFk; , J upNahbn[dNuhNah; 2012 [èd; 13 Kj y; 22 ti u gpNurpy; murhy; eljjggl;j.

NgzjjFej NkkghL Fwj j fUj j k ; , yfFFS k;

- , awi fg; ghJfhggpwfhd rutNjr mi kgG 1980, y; NgzjjFej NkkghL vdw nrhyi y mwKfggl;jjpaJ. NgzjjFej NkkghL vdgJ vj p f h y j i y K i w f s p d ; N j i t f S f f h f , U f F k ; t s q f S f F v t t j g h j g G k ; V w g L j j h k y ; , g N g h i j a j i y K i w a p d ; N j i t i a G u j j p r a A k ; t s u r r p a h F k ;
- NgzjjFej Nkkghl bd; Kffpa NehffkhdJ epahakhd kwWk; rkkhd Ki wapy; nghUshj hu edi ki a nj h l u e J t s q f t j k ; M F k ;

NgzjjFej NkkghL , yfFFs;

- l f f p a e h L f s ; r i g a h d J 1992y; RwWr#oy; kwWk; tsurrrf; fUjjuqfpy; xU cyf cWjnkhopi s ntsapl;j. , jpy; epahakhd> epiyahd kwWk; mi kj pahd rKjhajij cyf mstpy; cUthffNtzLk; vd Rlbfh;l;gggl;j. , ej nray; jpl;khdJ NgzjjFej Nkkghl bwfhd “Nfhupfi f 21” vdw ngaupy; ntsapl;gggl;j.
- nrglkgu; 2015-y; l f f p a e h L f s ; r i g a p d ; n g h J r i g a h d J “c y f s h t p a x U f p i z e j k w W k ; k h w w K i l a N g z j j F e j N k k g h l b w f h d “ e p f o T 2030” v d w f U j i j K i w a h f V w w J . N g z j j F e j N k k g h l b w f h d 17 , y f F f s ; , j j y ; c s s d . , e j , y f F s h d J x t n t h U e h l b Y k ; 2016 K j y ; 2030fFs; nraygljjggl NtzLk; vdf; mwTWjjgggl;j.
- V o i k i a x o r f f T k > G t p i a f ; f h f f T k > v y N y h U k ; t s k n g w T k ; N g z j j F e j N k k g h l b d ; x U g F j p a h f c y f e h L f s ; , y f F f i s V w W n f h z i d . x t n t h U , y f F k ; 15 t U l q f S f F s ; G u j j p n r a a g l N t z L k ; , e j , y f F f i s m i l a m u r h q f q f s > j d p a h u ; J i w f s > r % f k ; k w W k ; k f f s ; v d x t n t h U j d k d j D k ; j d D i l a g q i f n g h W g g h f n r a a N t z L k ;

, yfF 1: vyyh , lqfsPYk; vyyh ti fahd tWi ki aAk; xojjy;

- c y f i y ; l e j i y ; x U t u ; , d W k ; x U e h i s f F 1.9 l h y U f F k ; F i w t h d t U k h d j j i y ; t h o f p w h u ; n g h U s h j h u t s u r r p v d g J e p i y a h d g z p i a f ; n f h L g g J k ; r k j ; J t j i j K d N d w W t J k ; M F k ;

, yfF 2: grpi a xoggJ> czT ghJfhgG kwWk; Nkkgl; Cl;rjij ngWtJ kwWk; epiyahd tptrhajij Nkkgl;jtJ

- k f f s ; r h u e j f p h k g G w q f s p d ; t s u r r p f F k ; R w W r # o y ; g h J f h g g w F k ; M j u t h f , U f F k ; m N j N t i s a p y ; t p t r h a k > f h L t s u g G k w W k ; k b g p j j y ; M f p a i t

Clj rj Jkpf czi tAk; xU fz z pakhd tUkhdj j Ak; j uf\$ baj hFk; , di wa cyf pd; 815 kpyyad; kffspid; grpi aAk; NkYk; 2050fFs; tutpUfFk; \$Lj yhd 2 Nfhb kffspid; grpi aAk; NghffNtz Lkhdhy; cyf mstpyhd cz T kwWk; tptrha Ki wfs py; xU Moej khwwk; Nji tggLf pWJ.

, yfF 3: MNuhffpakhd thoi t cWj p nraj y; kwWk; vyyhtaj pYk; mtufspid; eyed NkkgLj Jj y;

- kdj ufspid; MAI fhyk; ebjj y> Foei j fs; kwWk; gprt fhyjj py; VwgLk; nghJthd Nehafs; kwWk; , wgG tpfj j j f; Fwj j ypy; xU Fwggp j j f f; KdNdwwk; VwgLj j ggl LssJ. Rj j eL; kwWk; Rfhj huk; fpi lggj pYk; kNyupah> fhrNeha> , dkgpsi sthj k; kwWk; vrl .tp/vapl .j ; guTj y; Nghdwtwi w Fi wggj pYk; xU ngupa KdNdwwk; Vwgl LssJ.

, yfF 4: vyyhk; csslqfpa jukhd fytpi a vyNyhUfFk; msjggi j cWj pggLj j y; kwWk; thoehs; KOTJk; fytpi a CfFtj j y;

- vyyh epi yfspYk; fytp vyNyhUfFk; msj j y; vdgj py; xU Fwggp j j f f; KdNdwwk; epfoeJssJ. NkYk; gsspfs py; Nrufi f Fwggghf ngz ; Foei j fspid; Nrufi f vz z pfi f mj p f u j ; JssJ. vLj J f f h l i h f > cyf mstpy; nj h l f f fytpay; vyyh ehLfsk; MZ fFk; ngz Z fFk; fytp rkkhf mspffggLssd. rpy ehLfs; vyyh epi yfspYk; MZ fFk; ngz Z fFk; rk fytp toqFfpdwd.

, yfF 5: ghyd rkj Jtk; milj y; Kffpakhf ngz fs; kwWk; ngz ; Foei j fspid; mj pfhuj i j mj p f g g L j J j y;

- ghyd rkj Jtk; vdgJ kdj d pd; mbggi l c upi k kl Lk; myy rkjh hd kh d tskhd kwWk; epi yahd xU cyf wF xU mj j pahtrpa mbggi l MFk;

, yfF 6: vyNyhUfFk; eL; kwWk; Rfhj hu thoi t cWj pggLj j y;

- ehk; tho epi dfFk; cyfpy Rj j kh d vsj j y; fpi l f f f \$ b a m s t p y ; e L ; , UggJ mtrpak; MFk; , i j epi wNtwWtj wF Gtj py; Nji tahd mst eL; cssJ. Mdhy; Nkhrkh d nghUshj huk; rupayyhj c s f l i i k g G f ; fhuz khf xt nth U t U l K k ; y l r f f z f f h N d h u ; m j p Y k ; m j p f v z z p f i f a p y ; F o e i j f s ; e L > R f h j h u k ; k w W k ; R j j k ; n j h l u g h d N e h a f s h y ; , U f f p d w d u ; e h d f p y ; x U t u ; 2050 f F s ; n j h l u r r p a h d R j j e L ; g w w h f F i w a h y ; g h j p f f g g L k ; e h l b y ; t h o t u ;

, yfF 7: vsj j y; fpi l f f f \$ b a > ekgj ; j Fej epi yahd kwWk; etd Mwwy; mi dtUfFk; fpi lggi l cWj p nraj y;

- Mwwy j h d ; , di wa cyf py; ehk; c j u N e h f F k ; n g u p a r t h y f s ; k w W k ; t h a g G f S f F K f f p a i k a k h f c s s J . N g z j j F e j M w w y ; k f f s p i d ; t h o ; T > n g h s h j h u k ; k w W k ; G t p i a k h w w p a i k g g j w F f p i l j j x U k p f g n g u p a t h a g g h F k ;

, yfF 8: epi yahd nghUshj hu tsurrp Nti ythagG kwWk; vyNyhUfFk; fz z pakhd Nti ythagG Nghdwtwi w NkkgLj JtJ.

- epi yahd nghshj hu tsurrp f e y j u k h d N t i y t h a g G f i s j ; j e J m j d ; % y k ; e h l b d l n g h U s h j h u j i j N k k g L j j p m N j N t i s a p y ; e h l b d ; R w W r # o f F v e j g h j p g G k ; V w g L j j h j x U r K j h a k ; N j i t - N t i y n r a A k ; t a j j y ; , U f F k ; m i d t U f F k ; N t i y t h a g G f S k ; f z z p a k h d g z p r # o y f S k ; N j i t .

, yfF 9: klsj pdkpff fl i kgGfi s c UthfFj y> epi yahd nj hopykakhf fi y C fFtj j y; kwWk; Gj j hf fj j VwWfnfhssy;

- epi yahd nj hopy; tsurrpNa xU ehlbd; tUkhdj j pWf Kffpa c wgj j pf; fhuz pahfTK; kwWk; Ntfkhd> epi yahd thofi f ju j j c au j j tJk> Rwwr#oYfFk; nj hopykakhf;YfFk; Vww nj hopyEl gj; j l;T nfhLggJk; MFk;

, yfF 10: Nj rqrS fFs; kwWk; Nj rqrS fF , i l Naahd rkepi yaww j di ki a effFj y;

- rkepi y mww j di ki a Fi wff Ntz lKhdhy; xJ ffggl l kwWk; gpdj qfpa epi yary; css kffskU ftdk; nrYj Jk; ti fay; nfhs i ffs; , awgggl L mi t cyf mstjy; nghJ newpKi wfshf Vwfggl Ntz lK;

, yfF 11: efuqfs; ghJ fhgghdj hf> ekgj j Fej j hf kwWk; epi ygGj j di k nfhz j j hf MfFtJ.

- efuqfshdJ fUj j ffs> tz pfk> fyhrrhuk> mwptpay> c wgj j p r%ftsurrp NkYk; gy nrayfspd; i kakhf j pfofWJ. efuqfshdJ kffs; r%f kwWk; nghUshj hu KdNdwwk; fhz top tFffpdwd. \$l l neury> mbggi l Nri tfS fF Nghj hj epi p NghJkhd mST tLfs; , yyh epi yi k kwWk; mopAk; epi yary; css fl i i kgG Nghdwi t efuqfS fNf cupa rthufshFk;

, yfF 12: epi yahd EfuT kwWk; c wgj j pi a c Wj j nraj y;

- epi yahd EfuT kwWk; c wgj j p vdgJ c wgj j p tsqfi s C fFtj j y; kwWk; NghJkhd Mwwy> jwd> epi yahd fl i i kgG. mbggi l Nri tfs> fz z pakhd gz pfi sg; ngWj y; NkYk; vyNyhUfFk; Nkkgb thofi f epi yi aj; j Uj y; Nghdwtwi w mi la toptFj j y; MFk; , ej , yfi f ehk; epi wNtwWk; NghJ , J xl l nk hj j tsurrp j pl l qfi sAk; epi wNtww c j tGupfWJ. vj pufhy nghUshj hu> Rwwr#oy; kwWk; rKfj j pWfhd nrytdqfi sf; Fi wffTK; nghUshj hug; Nghl bfi s tyi kahfTK; Voi ki af; Fi wffTK; c j tGupfWJ.

, yfF 14: ngUqfI y> fl y; kwWk; fl w,fhu; tsqfi sg; ghJ fhj j epi yahf c gNahfj j y;

- cyfjd; ngUqfI yfs; - mtwwpd; ntggepi y> ehuhl l qfs; kwWk; mj py; thOk; capufs; Mfpa i t Gtpi a kdj dpd; thopl khf c UthfFk; xU cyfshtpa mi kggf , aqFfpdwd. , ej cyfshtpa tsqfi s kffTK; ftdkhf i fahSj y; vdgJ Ngz j j Fej vj pufhyj j pWf xU rwe j topahFk;

, yfF 15: epi yahf fhLfi s Nkyhz j k nraj y> ghi ytdkhfhky; j Lj j y; epy moji t j Lj j kWgbAk; nroGw nraj y; c apudggdi k moji j j j j Lj j y;

- Gtpad; epygguggiy; fhLfs; 30% fhz ggLf pdwd. fhLfs; cz T kwWk; ci wtpk; j UtJ kl l ky yhky; fhyepi y khwwj j j j j Lggj pYk> c apudggdi ki a NgZ tj j Yk; c sehl l c apudqfS fF xU thopl khfTK; tpsqFfWJ. gj p% dW kpyyad; n` fNl u; fhLfs; xtnthU tUl Kk; mopf;fggLf pdwd. mNj Nti say; nj hl urrpahf mopeJ tUk; 3.6 gpyyad; n` fNl u; twz j epyqfs; ghi ytdkhfWJ.

, yfF 16: epahakhd kwWk; rkjh hdkhd c sssl qfpa rKj haj i j c UthfFj y;

- rkjh hdkhd rKj haj i j c Uthff CfFtff> vyNyhUfFk; epahak; vsj py; fpi lff> j pwi kahd nghWgghd epWtdqfi s vyyh epi yfspYk; c Uthff , ej , yfF mugz pffggLfpuJ.

, yfF 17: Ngz j j Fej Nkkghl bwfhf c yfshtpa elGz ui t epi yahd tsurppffhf kWgbAk; c apuggj j y;

- Ngz j j Fej Nkkghl bd; ntwpp vdgJ muhrhqf qfs> j dpahu; epWtdqfs; kwWk; kffs; rKjhak; , twppwF , i l Naahd \$l i h z i kapy; c s s J . , ej \$l i h d J n f h s i f f s > j h u k f k j p g G f s > g q f p l i f h l r p f s ; k w W k ; k f f i s A k ; G t p i a A k ; i k a k h f n f h z l , i z e j , y f F f i s f h l L t j h f , U f f N t z L k ; , i t c y f s h t p a m s t p y > g u p e j p a > N j r p a k w W k ; c s @ u ; m s t p y ; N j i t .

fhyepi y khwwj i j Ngupl gqNfww ehLfs; COP21y; ghup] py; 2015 brkgu; 12y; ei l ngww “ghup] ; c l d g h l i l ” V w w d ; , e j c l d g h L e t k g u ; k h j k ; 4 M k ; e h s ; 2016y; ei l K i w f F t e j J . , e j c l d g h l b d g b v y y h e h L f S k ; c y f n t g g k a k h j i y 2 b f p u p n r y r p a] ; m s T f F F i w f f K b T n r a j d u ; j w N g h J c s s k p f N k h r k h d e p i y i a k d j p y ; n f h z L 1.5 b f p u p n r y r p a] ; t i u a h t J F i w f f N t z L k ; v d c W j p n f h z i d u ;

fhyepi y khwwKk; Ngz j ; j Fej NkkghL:

- tuyhwwpd; nj hl f f j j p y l U e J g h u g N g h k h d h y ; G t p a p d ; f h y e p i y k h w p f n f h z N i t e J s s J . f l e j 650-000 t U l q f s p y ; g d p A f K k ; n t g g A f K k ; y l r f f z f f h d M z l f s h f k h w p k h w p , U e J s s J . , e j f h y e p i y k h W g h l b w F K f f p a f h u z k ; G t p a p d ; R o w r p a p y ; V w g L k ; r p W k h w w K k ; m j d h y ; e k J G t p f N f h s j j p w F f p i l f F k ; # u p a n t g g k ; k w W k ; x s p a p y ; V w g L k ; k h w w K N k M F k ; j w N g h J e k ; G t p a p d ; f h y e p i y a h d J n t g g k i l e J t U f p w J . m J “ G t p n t g g k i l j y ” v d W F w p f f g g L f p w J . f l e j 100 t U l q f s p y ; G t p a p d ; n t g g e p i y a h d J 100⁰ / g h u d ; ” I ; m j p f u j J s s J . , J x U r p W k h w w k j h d ; M d h y ; G t p a p y ; V w g l f \$ b a k p f r r p a k h w w K k ; k p f g n g u p a f h y e p i y k w W k ; R w W r # o y ; k h w w j i j V w g L j j f \$ L k ; c U F k ; g d p a h W > f l y ; e l ; k l i k ; c a u T > e l z i f h y g Q r k > m j p f k i o k w W k ; n t s s k ; N g h d w k h w w q f s ; V w g d N t e i l n g w M u k g g j ; J t p l i J .

fhyepi y khwwj j p w f h d f h u z q f s ;

- Gi j t b t v u p n g h U s f i s v u p f F k N g h J t h A f f s ; t s p k z l y j j p w F n r y f p d w d . M w w T f f h f v u p f f g g L k ; G i j g b t v u p n g h U s f s ; N g h f F t u j J t h f d q f s h y ; V w g L k ; g h j p g G k w W k ; f h L f i s m o j j N y h L , i z e J G t p n t g g k a k h j Y f F f h u z k h f p w J . , J x U , l j j p d ; f h y e p i y i a k h w w f \$ L k ;

fhyepi y khwwj j p d ; t p i s T f s ;

- t p Q o h d p f s h y ; f l e j f h y j j p y ; K d d w p t p g N r a a g g l i f l y p y ; k j f F k ; g d p f f l b f s ; c U F j y > f l y ; e l k l i c a u T k w W k ; f l i k a h d n t g g m i y f s ; N g h d w g p d t p i s T f s ; , d W c y f m s t p y ; e i l n g W f p d w d .

I f f p a e h L f s p d ; f h y e p i y k h w w j j p w f h d t i u a i w k e h L (U N F C C C) 2017 M k ; M z l . N k 17 e N j j p e i l n g w w J . , j p y ; N g z j j F e j N k k g h l N i h L f h y e p i y k h w w k ; k w W k ; N g u o p T m g h a F i w g g p w f h d n r z i h a ; t i u a i w M f p a t w i w x U q f p i z g g i j f ; F w j J t p t h j p f f g g l i J .

1. **ntgg epi y nj h ue;J c aUk;** gRi k , yy thAffs; ntggj j c ssoj;J mJ ts;kz l y;j j wF nryytp; hky; j ffi t;J Gtp;pd; ntggepi y c au;Tf;Ff; fhuz khf , Uff;fwJ vd ty;Yeufs; \$Wf;pdwdu;
2. **ci wgd; mww epi y (tsUk;epi y) eS k;** , J tsUk; gapufs; kU j b tpi sTfi s VwgLj ;k; ntggkhd #oy; G;r;pf;f; mj pf eh;f;f; c apNuhL , Uff; c jTk; , J gapuf;sp; mo;Tf;F toptF;Fk; mj pfuf;Fk; ntggepi y Ntshz; i kapy; mj pf c wgj; j p nra;f;pdw kwWk; ed;F gapu; tpi s;f;pdw epyq;f;f;py; xU khwwj; i j f; nfhz LtUk;
3. **ki o fhyq;f;f;py; xU khwwk;**<u khwwk; twz;l epyj; j w;fhd khWgL mj pfuf;Fk; mj htJ<uepyq;f;f; NkYk; <ukhFk; twz;l epyq;f;f; NkYk; <ukhFk; twz;l epyq;f;f; NkYk; twz L NghFk;
4. **mj pf twl;rp kwWk; ntgg mi yfs;** c aUk; ntggepi y kwWk; khWk; ki o msthy; twl;rp kwWk; ntgg mi yfs; mj pfuf;f;f;pdwd.
5. **fl yeb; kl i k; c aUj y;** cyf mst;py; fly; eb; kl i khdJ 1900 fs;py;Ue;J Fi wej J Mz Lf;F 0.1yp;Ue;J 0.25 nr.kp cauk; ti u caUf;fwJ vdW tQQhd;f;f;f; fz Lg;bj ;Jssdu;
6. **Mubf; JUt;kh;J gdr;aww epi yf;F nryy;f;\$Lk;** , dDk; mi u E;w;whz bd; , i lapy; Mubf; JUt;kh;J Nfhi l fhyj; j py; KOT;Jkhf c Uff;\$Lk; vd vj p;ghuf;f;ggLf;fwJ.

fhyepi y khwwj; j vj p;nf;hssy;

- fhyepi y khwwj; j , Uti f;f;f;py; vj p;nf;hssy;hk; mi tahtd>
- 1. **kl r; j j wcd;** , J fhyepi y khwwj; j w;Ff; fhuz khd gRi k , yy thAff;sp; nts;Naww; j j f; Fi wgg; j g; gwwpf; Fwgg;Lf;fwJ.
- 2. jOty; fhyepi y khwwj; j pd; tpi sthf VwgLk; ghj;pg;f;f; s vt;thW Fi wggJ vdgi; j g; gwwpf; Fwgg;Lf;fwJ. , t;tp;U mZ Fki wFSk; Vwg;dn;tel;e;Jnf;hz bUff;fw cyf;sh;tp;a khwwq;f;f; s vt;thW vj p;nf;hss;st;J vdgi; j py; Kf;f;f;ag; gq;Ft;f;f;f;pdwd.

kl r; j j wcd; nrayghLfs;

- fhyk; fl e;J Nght; j wF Kd; fhyepi y khwwj; j Fi wgg; j w;fhd el;tb;f;f; f;f;f; s vLj;J , gNghNj mtwi w ei l Ki wgl; j j nj hl qf Ntz Lk;
- 1. **khryy;h kwWk; Mwwy; %yq;f;f;f; Gi j gbt vup;ng;hU;f;f;f; rhuej; p;Ugg; j f;f; Fi wj; Jfn;f;hz L GJgg;f;f;f; j j f;f; kwWk; gRi k Mwwy> eb; myyJ Gdyk;pd; Mwwy> kj Nj d; thA myyJ kh;Lr; rhd;thA> kwWk; Gtp; ntgg Mwwy;f;f;f; sr; rhue;J , UggNj fhyepi y khwwj; j vj p;nf;hss xU Kf;f;f;pa top Ki wahFk;**
- 2. **Mwwi y Nr;kp;f;f; rpy Fwgg;Gfs;** tpi y \$ba Mwwy; Nr;kp;f;Fk; k;pd;f;Utp;f;sh;f;pa CFL gyGfs> Fw;pur;hj dgngl b> fhwWg; j d; (Air Condition) Kj ypatwi w c gNahf;gg; j j f; Fi wff;f;Ntz Lk; gadghl by; , yyhj NghJ k;pd;rh; j dq;f;f; s ep;Wj; j p; i tggJ mtr;pk;hFk;
- 3. **thfdk; XI j gRi kf; Fwgg;Gfs;** erRg; Gi f ts;kz l y;j j py; fyf;f;hky; , Uff; thfdq;f;f;sp; c gNahf; j j j f; Fi wj; j Ny r;wej c j j pahFk; nghJ thfdq;f;f; s c gNahf; j j py; xU kf;f;Oe; j py; Nrue;J gz pf;Fr; nry;Yj y; (Car

pooling) kpdruhuj j py; , aqFk; fhufs; myyJ , uz L rffu thfdqfi s c gNahfj j y; Nghdwi t xU rpwj khwW c j j pahFk;

4. **Fi wj j y; - kŁ Łk; gadgLj Jj y; - kW Rowr Ki wfs; Fi wj j y; - kŁ Łk; gadgLj Jj y; - kWRowr Ki wfs; ekJ tsqfi sAk; Mwwi yAk; Ngz jggJ fhf c j Tf pWJ. , J khRghl i l f; Fi wj j mj d; %yk; gRi k , yy thAffi sf; Fi wff pWJ.**
5. **fhLfi s kŁ Łk; tsuj j y; fhugd; i l -Mfi j i l tsjkz l y j j py; Ue;J eF;Fk; kpfTk; Rj j khd kwWk; typi kahd xU fhuz p gRi kahd kuqfshFk; ehk; kuqfi sAk; fhLfi sAk; kdj d; etd tsurrpffhf mojj j d; tpi sthf fhugd; i l -Mfi j i l tsjkz l y j j py; , Ue;J eF;Fk; Gt p d; j p d; mj pf mst Fi we;J t p l j J.**
6. **, awi f Ntshz i k; tsjkz l y fhugd; i l Mfi j bd; xU Kffja Nj f f khf kz ; fhz ggL f pWJ. ghukgupa t p r h a j j p w f h f fhLfs; mo p f g g l j h y; , e j N j f f j i j m j p f m s t y; mo j j n f h z b U f f p W J . M d h y; N g z j j F e j k w W k; , a w i f N t s h z i k a h d J k z z p d; , a w i f j ; j h j f f i s j f f i t j j f ; n f h s ; t j d ; % y K k ; k z z u g i g f ; F i w g g j d ; % y K k ; k w W k ; k z z p d ; , a w i f a i k g i g N k k g L j j t j d ; % y K k ; f h y e p i y k h w w j i j v j p n f h s s c j T f p W J . , a w i f N t s h z i k , a w i f c u q f i s g a d g L j j p r u p a h d k f # y ; n g w c j T f p W J .**

tbfhy; eL; Nkyhz i k kwWk; mj d; Kffja j tk;

- **tbfhy; eL; myyJ tb epyk; vdgJ xU e j p t o e N j h L k ; G t p g g F j p a h F k ; m j p y ; e j p e L ; x U , l j j p d ; v y y h g ; g F j p f s p y U e ; J k ; x U n g h J t h d t b f h i y N e h f ; p t o e ; J X L f p W J .**
- **eL; Nkyhz i k vdgJ j Fej c w g j j p i a g ; n g w e p y k ; k w W k ; e L ; t s q i f s r u p a h f N k y h z i k n r a ; t j h F k ; N K Y k ; , j d h y ; , a w i f t s q f s ; F i w t h d m s p t p N y N a g h j p f f g g L f p W J .**
- **tbfhy; eL; Nkyhz i k vdgJ kz ; kwWk; eL ug; Ngz jg; ghJ fhj j y > j Fej Ki w a y ; e p y j i j g ; N g Z j y > f h L f i s g u h k u j j i y C f F t j j y ; N k Y k ; N g z j j F e j N t s h z k K i w f i s g ; g a w r p n r a j y > t p i s e p y q f s ; k w W k ; N k a r r y ; e p y q f i s g ; N g z j g ; g h J f h j j y > k z ; t s j i j g h J f h j j y > N t s h z i k f f h d c s ; e h l L e l u r u p a h f N k y h z i k n r a j y > t b f h y > n t s s g n g U f i f f ; f l l g L j j r p W m i z f i s f l l j y > k w W k ; j d p k d j d p d ; t h o f i f j ; j u j i j c a u j j y ; m j d ; % y k ; R w W r # o y ; r k e p i y i a N k k g L j j y ; M f p a t w N w h L n j h l u G i l a j h F k ;**

tbfhy; eL; Nkyhz i k a p d; Kffja g b e p i y f s ;

- **t b e p y j p l k h d J t b e p y j j p d ; j d i k i a f z l w p t J k ; m e j e p y j j p w f h f e L ; % y q f s p d ; , U g i g F w p g G v L g g J k ; M F k ; t b e p i y N k y h z i k j j p l j p d ; g b f s h t d ;**
1. **t b e p y j j p d ; v y i y k w W k ; t b e p y j j y ; f h z g g L k ; r p w a t b e p y q f i s A k ; t p s f f p x U t i u g l k ; t i u e J n f h s S j y ;**
 2. **t b e p y j j y ; c s s e L ; M j h u q f i s t i u g l k h f t i u e J m t w w p i d F w p g G v L j j f n f h s s y ;**

3. tberjyjjy; fhz ggLk; , awi fahd kwWk; kdij dhy; c Uthffggld
tberjyqi fs FwpgG vLjJ epyti ugl k; ti uf.
4. epyggadghL kwWk; epyggugi g FwpgG vLjJ epyti ugl k; ti uf.
5. tberjyjjpd; epyti ugl j i j j ; j ahu; nraf.
6. ejjapd; fi u kwWk; flLkhd jyk; clgl kz ; mupffggld epyj i j
mi kahsk; fhZ j y;
7. tberjyjjy; css elpd; j di ki a mi lahsk; fzL mi j mbgi lahf
i tjJfnfhssy;

, ejjapdy; tberjy Nkyhz i k:

- ekJ ehlby; tberjy Nkyhz i kj; jpllkhdJ , ejja murhqfjjhy;
Vwgljggld 1970fspd; njhlffjjjyUeJ nraygljggLfwJ. gytif
NkkghlLj; jpllqfshfpa “twlrp ghjggGfFsshFk; , lqfSffhd jpllk”
(DPAP)“ghi y epy NkkghlL jpllk” (RVP)“ki ongWk; epyqfSffhd Nj rpa
tberjy NkkghlLj; jpllk”(NWDpra) kwWk; “xUqfpi zffggld jupR epy
NkkghlLj; jpllk” (IWDP) Mfpa jpllqfs; gyNtWgl elgpgG #oyry;
MukgpfggldJ. 1980 kwWk; mjwF Kdghd tberjy NkkghlL jpllqfs;
mi djJk; kz tsk; Ngz ghJfhj j y; kwWk; ki oelr; NrkgGjjpllqfi sNa
Nehf;fkhhf; nfhzL nrayglJ.

ki oelr;NrkgG:

- cyfk; KOTJk; ylrffzffhd kffs; jqfsJ mdwhl tllLjNj tfsfF
Rjjkhd elpdwp , Uffpdwdu. gy , lqfsy; ehk; nghJthf cgNahf;Fk;
Fbel; Foha; fhz ggLjtjy y myyJ ekgfj; j di k , yyhi k myyJ mi j
nray;ki wglJtJ tpi y \$bajhf cssJ. mjpfupf;Fk; elgwwhf;Fi wNa
21Mk; Ejjwhz bd; krfngupa rthyhFk; Mfnt ki o elr; NrfugG xU
kjggkpf;f tskhf KffajJtk; ngWfwJ. ki oelr; Nrfugi g kffs; gpdgww
Mukggj j y; , ej elgwwhf;Fi wi a ehk; rkhs;pf;f KbAk;

ki oelr; NrkgGpd; mtrpak;

1. elr; mspgGg; gwwhf;Fi wi a ntytJ.
2. elr; gwwhf;Fi wi a rkhs;pf;f epyjj b el u mjpfupf;f kpfrrpwej kwWk; kpf;r;
rpf;fdkhd top
3. efuggFj japy; fhz ggLk; ei lghi j gFjpi a kz z hy; epugGtJ.
4. mjpf ki o ngWk; gFj pfs; myyJ mjpfkhf elr; Nj qFk; gFj pfsy;
epyjj b elkl;k; cau mi j elhy; epugGj y;
5. elr; ngUf;Fj y; %ykhf epyjj belpd; j di ki a NkkglJj y;
6. gRi i kGqfh> gz i z kwWk; Nj hl ;jj wF elghrdk; nraa elr; ngWtJ.

ki oel; Nrkgg El gqfs;

- ki oel; Nrkggpy; xU Kffpa El gqfs; c ssd.
 1. epy Nkwguggpy; el u vj pufhyj j pwfhf Nrkgj j y;
 2. epyj j b el; tsk; GJ gg j y;
- epyj j pd; Nkwguggpy; ki oel u NrkggJ epyj j b nj hl bfs> Fsqfs> FwFf mi z fs> j LgG mi z fs; Nghdwtwi w gadgJ j k; xU ghukgupa Ki wahFk; epyj j b el u epugGj y; j wNghi ja ki oel; Nrkggpd; Gj pa j pl khFk; j nghJ thf \$ohqfy> ghwhqfy; kwWk; kz yhy; epugggl i FofFs> f p z Wfs> mfop Kj ypa mi kgi gf; nfhz l j hFk;

RwWr#oy; j hffj i j kj ggpl y;

- xt nthU ehLk; KdNdW Kawrp nrafwJ. KdNdwwj j dp xU Kffpa mkrk; c wggj j p kwWk; t p ahghuk; %yk; nghUshj huj i j KdNdWwJ y; MFk; xt nthU ehLk; nj hopwrhi yfi s mi kffwJ. mi t kdj ufS fF Nti ythagi gAk> EfuNthupd; Nj i t fi sAk; Gwj j p nrafwJ. NkYk; ehL fF tUthi aAk; j Uf wJ. rkgfhyqfshf kdj ufSpd; KdNdww topfSpd; Nkyhj pfi fk; c yfpd; mi kggpy; kpfnggupa khwwj i j f; nfhz l teJssJ. ehk; Vwfdnt ekJ MNuhf f r k> tho thj huk; kwWk; ghJ fhggpy; j d; j hffj i j c z u Mukgj j sNshk; kwrwhU gffk; KdNdwwj j pd; gydfS k; rkkhf gqfpl ggl t y i y. gy ehLfs; j qfS i la mbggi l Nj i t fi sf; \$l Gwj j p nraa Kbahj epi yapy; j UfFk; Nti say; rpyehLfs; cauej thoi fj; j u j i j f; nfhz l ssd.
- flej fhy KdNdww j pl qfs; vyyhk; mtwwhy; RwWr#ofF Vwglk; gpd; tpi sTfi s gwwp fUj j y; nfhsshky; ei l Ki w gLj j ggl i i t fshFk; mj d; tpi sthf MWfS k; VupfS k; khri lej d> thAkz i yk; mrRWj j k; epi yi a mi keJssJ. FtpAk; t l l kwWk; nj hopwrhi yf; fopTfs; epyj i j mj p f khf r boj j t pl i j. nj hopykakhff y; kwWk; nghUshj hu tsurp ekfF etd rhj dqfs; %yk; fpl fFk; Rfj i j j e j j Mdhy; kffSpd; thofi fj u j i j KwwpYk; moj j t pl i j.

RwWr#oy; j hffj i j kj ggpl ypd; Nehf f qfs;

1. nghUshj hu> RwWr#oy; kwWk; rKj haj j pd; kU j hffk; Vwglj j f \$ba KdNdww nrayghLfi s mi lahsk; fz l Kddwpt j j kwWk; mi j kj ggpl y;
2. RwWr#oypd; gpd; tpi sTfs; Fwj j KbTfi s vLggj wF j ftyfi s toqFj y;
3. kwWk; rupahd khwW el tbf i ffs; kwWk; j LgG el tbf i ffi s mi lahsk; fhZ j y; %yk; Ngz j j Fej Nkkghl i l C f fggLj j y;

RwWr#oy; j hffj j pi d kj ggpl k; nrayki wfs pd; gbej yfs;

RwWr#oy; j hffj i j kj ggpl k; vl l gbej yfs;

1. ghj gg Fwj j Ma;T: Kj yhtj hf Kdnkhopaggl i j pl i qfS fF RwWr#oy; ghj gg kj ggpl Nj i tah> Nj i tnadwhy; vej epi yapy; Nj i t vdgj hFk;

2. **Nehffk;** Kffpa jhffqfi s tpi stpfFk; fhuz pfi sf; fz l wj hy; , ej fl l k; Muharrpad; fhy msi tAk; epuz apffpwJ.
3. **j hffj j j Muhaj y;** , ej f; fl l j j py; Kdnkhopaggl l j pl l j j pd; RwWr#oy; kwWk; r%fj; j hffj j j f; fz l wpeJ mj d; Kffpaj J tj i j kj pggly;
4. **kl LggLj Jj y;** , ej gbepi yary; epuz apffgggl l j pl l g; gz pfspd; rhj j pakhd ghj fkhd RwWgW#oy; tpi stfi s Fi wf,fTk; j tpf,fTk; gupeJi u nra,fpwJ.
5. **mwpfi f;** , ej epi yary; MaTfspd; KbTfi s xU mwpfi fahf jahu; nraJ KbT vLfFk; mj pfhups; myyJ RwWr#oy; MutyufS fF toqFj y;
6. **mwpfi fi a kW MaT nraj y;** rkuggpf,fggl l RwWr#oy; j hff kj pggly bd; mwpfi fapd; j uk; kwWk; mj d; tpi dTWj pwi d Nrhj j J KbT vLggj wF Nj i tahd j fty,fi sj; j UfpwJ.
7. **kbT vLj j y;** , ej epi yary; mej j pl l k; epuhfupf,fggl l j h mq,ffupf,fggl l j h myyJ , dDk; khwwk; Nj i tah vdgJ Fwj J KbT nraaggLfpwJ.
8. **grei j a fz fhz gg;** , ej epi yary; nrayj pl l k; Mukgrf, mDkj p ms,ff,fggl l gpd; mj d; gz p nj hl q,FfwJ. , ej nrayj pl l j j pd; j hff,qfs; rl l j wF Gwkghf nryyhj thWk; RwWr#oy; j hff kj pggly bd; mwpfi fapdgb RwWr#oy; ghj gg j LgG el tbf,ffs; ei l Ki wglj j ggLf,fwj h vdgi j Ak; fz fhz pf,fpwJ.

, ej phty; RwWr#oy; j hffk; kj pggly y; Ki w:

- , ej phty; RwWr#oy; j hffj j j mstplk; Ki w MwWggssj hfF nrayj pl l qfi s mstplk; Nehffj Nj hl 1978y; nj hl qf,fggl l J. 1994 [dtup 27y; kj j pa RwWr#oy; kwWk; tdj J i w mi krrfk> , ej pa muR RwWr#oy; ghJ fhgGr l l k; 1986 , d; fb; vej xU t,upthffj j pl l k; myyJ GJ gggj j y; j pl l j j wFk; ml l ti z 1, y; gl baypl ggl Lssgb vej xU Gj pa nrayj pl l j j wFk; RwW#oy; mDkj p fl l hakhf,fggl l J. 1994y; ntsapl ggl l , ej mwp,pggpwF gpwF mj py; 12 j pl j j qfs; nraagg l Ssd. kj j pa kwWk; khepy Mi z aqfs; , i j (ELA - Environmental Impact Assesment) Nkkglj j p Nkyhz i k nraAk; nghWgi g q,qpl Lfnfhs,fpwJ. RwWr#oy; mDkj p fpi l fFk;
- kj j pa RwWr#oy; kwWk; tdj J i w mi krrfk; Gj j hf xU EIA rl l j j nrggl kgu; 2006-y; ntsapl l J. , ej mwp,pggp,fggl l fb,fz l gup,ty; c ss vyyh nrayj pl l qfS k; RwWr#oy; mDkj pi a kj j pa mi krrfj j pyUeJ ngww gpwNf nrayglj j KbAk;
 1. nj hoprhi yfs;
 2. Ruqf,qfs;
 3. mdy; k,pepi yaqfs;
 4. MwWggssj hf,Fj j pl l qfs;
 5. c sfl l i kgG kwWk; fl wfi u fl Lgghl L kz l yk;
 6. mZ kpd; epi ya j pl l qfs;
- Gj pa rl l k; Gj pa j pl l qfS fF mDkj p nfhLggi j j pl l qf,spd; msT kwWk; j pwi d nghWj J khepy muR mDkj p ms,ff xGj y; msj j SsJ. EIA MdJ Gj pa j pl l qf,spd; RwWgGw MNuhf,pa kwWk; r%fj; j hffj j j kj pggly Lk; , J

RwWr#oi yAk; KdNdwwj i j Ak; , i z ffpwJ. ghJ fhgghd kwWk;
Ngz jj Fej tsurrrNa RwWr#oy; j hf,fj j pd; kj jggll bd; Nehf,fkhFk;

Ngz jj Fej Nkkghl i l C f,fgglj Jk; Ki wfs;

- VwfDnt tptj ij ggb l ffpahLfs; ri gapd; 193 c WgG ehLFS k; nrkgi kgu; 2015y; ei lngww c Wggpdufs; nray;\$ljjjy; VwgLjjpa 2030 Ngz jj Fej Nkkghl L Nfhupfi ffsd; xU gFjjahf 17 Ngz jj Fej Nkkghl L , yfFfs; kwWk; 169 , yfFfs; VwWfnfhssgglld. , J [dtup 1>2016yUeJ ei l Ki wfF tej J. , ej , yfFfshdJ rutNj r ehLfsd; MNyhri dfsd; KbthFk; , j dgb rutNj r ehLfsd; murhqfqs k; , ylrffz ffhd Fbkffs k; fyeJ nfhz L Ngz jj Fej Nkkghl i l cyfshtpa ghi j ay; nfhz L nrdW mLjj 15 tUl qfsy; epi wNtwWtj hf VwWfnfhz l du;
- Ngz jj Fej Nkkghl L , yfFfs k; Nehf,fqfs k; tWi k> grp fytp MNuhffrak; kwWk; eytho;T> ghypd rkj Jk> el; kwWk; Jjai k> Mwwy> nghUshj hu tsurrr kwWk; VwGi la Nti y> cs; fl i kgG> nj hopyrhi y kwWk; Gj j hf,fk> rkepi yaww j di kai Fi wjj y> Ngz jg; ghJ fhff Ntz ba efuqfs> EfuT kwWk; c wggj j p fhyepi y nray> #oypay> rkjh hdK; kwWk; epahak> kwWk; \$lhz i k Nghdw Kffrakhd gFj pfi s nraygljj Jz Lk; , ej Nfhupfi fahdJ nghUshj hu tsurrray; ftdk; nrYj JtJ kl Lk; myy , d;Dk; mj pf rkepi y r%fj j j c UthfFtJ kwWk; ghJ fhgghd mj pf nrogghd cyi f c UthfFtJk; Kffrak; vdgi j , dk; fz L cssJ.

ghugl h: fhLfi sg; ghJ fhj J tsgglj Jk; xU Fffpukj j pd; fi j ghugl h vdgl k huh~buh F[uhj; vyi yay; css xU Fffpukkk; , qf trpfFk; goqFbfsd; xUqfpi z ej myyJ \$lL KawrpadJ , ij cauej epi yfFf; nfhz L nrdWssJ. ntWk; 1000 kffs; kl LNI , Uej hYk; , tufs; j qfs; fhli l Ak; tdji j Ak; ghJ fhggNj hL myyhky; mj d; %yk; l ffpah ehLfsd; Ngz jj Fej Nkkghl L , yfFfi sAk; Nehf,fqfi sAk; epi wNtwWpUf,fwhu;fs; mJkl Lkyy mj d; %yk; xtntHUtUk; j dggll Ki way; gadi leJssdu;

, ej fpuhkj j pdu; fhli l g; ghJ fhj J cssdu; mj dhy; fhLfs; , tufs; el; Nrkpff cj Tfpdwd. mej el; Ntshz i k kwWk; gz i z fsfF cj TfpwJ. gz i kz j; nj hopyhdJ tsj j j f; nfhLjj J. , J mtufs; gbggwpi t tsuj j J. gbggwpthdJ mtufsJ vyi yi a tptthffp mtufs; thofi fi a KOTJk; khwwpai kj JssJ.

ghy; gz i z kwWk; Nfhop gz i z i a flej fhyfl i j j y; c Uthffpa , ej fpuhkj j pdu; mtwi w tptgi d nraaTk; xU mi kgi g c Uthffpdu; , j d; %yk; gnpadi k kwWk; rkj Jtkww epi yi a Fi wjj y; Nghdwtwi w c Wj jglj j pdu;

, ffpuk kffs; vyyh tsqfs; kwWk; Gj pa nrai y Nrhi d nraJ ghuggj y; KdNdhbfs; el> epyk> tdghJ fhgG> c apudggdi ki ag; gj pT nraj y> c aputhA> #upaMwwy> nghJ kffs d; Ji z NahL mbgi gl c s; fl i kgi g c UthfFj y; Mfpaww \$lhf <Lghl Lld; nraj du. “kuk; ntl Ltij j; j Ljj y> kuk; elj y; Mfpai t Kj ypy; fpuhk \$l qfsy; epi wNtwWggl L gpd; c l dbahf ei l Ki wglj j ggl l J. Mdhy; , ffpukj j pd; 445 n` fNI u; tdj j pwFs; kdj ufs; kwWk; kUf qfs; tuhky; j LggJ kpfngupa rthyhf , Uej J.”

vej ehLfs; l ffpah ehLfsd; Ngz jj Fej Nkkghl L , yfFfi s Ntfkhf epi wNtwWfdwd?

- Ngz jj Fej Nkkghl L , yfFfsd; , Wj pad FwfnfhshdJ Voi ki af; Fi wggJ> Gtpi ag; ghJ fhggJ kwWk; xtntHUtupd; Nkkghl i l c Wj pnatJ

Nghdwj hFk; xtntthU FwrfNfhS k; xU j dgggl; , yfFfi sf; nfhz LssJ.
, ej , yfFfs; 2030fFs; epi wNtwgggl Ntz Lk;

- ehLfs; Ngz jj Fej Nkkghl L , yfi f epi wNtwWtj py; vttsT mUfhi kary;
cssd? , ijj; nj upeJ nfhs; , yhgkww Nehffpy; , aqFk; j ddhut
eWtdqfshd ngul; luy;] kd;] b/gl q; (Bertelsmann Stiftung) kwWk;
l f; f; aehLfs; pd; Ngz jj Fej Nkkghl L j b; Tf; fz p; p; fl; i kgG i kak; xU
%y ml; ti z i aj; jahuj j J. mtwwpy; xtntthU ehLbd; nrayj pi dAk;
fhz yhk; , ej nrayj pd; mbggi l a; yhd j uepi y gl baypy;] tll d; Kj ypl k;
ngwWssJ. mi j ml; j; gl baypy; fhz ggLtJ nl dkhuf; kwWk; gpd; yheJ
Nghdw ehLfs; hFk; FO VO (G 7) ehLfs; py; n[ukdp kwWk; gphdR kl Lnk
Kj y; 10 , lqfs; py; cssd. , ej gl baypy; mnkupff l f; f; a ehLfs; 42
MtJ , ljj; pYk; mNj Nti sa; py; rdh kwWk; u~ah Ki wNa 62> 71tJ
, ljj; pYk; cssd. Kj y; , UgJ ehLfs; gl baypy; fdl h (13)> nrff; BauR (15)
kwWk; nrhyNtd; pah (17) Nghdwi t Kj ypl j j py; cssd. Mr; pah-gr; p; f;
ehLfs; pd; \$l; i kg; py; css [gg; h> r; p; f; g; G; kwWk; M] j; Nuypah Nghdw
ehLfs; Ki wNa 18> 19 kwWk; 20 Mk; , ljj; py; cssd. , ej Ngz jj Fej
Nkkghl L , yfFfs; FwpaL mbfNfhbl L fhL; LtJ vddntdwhy; “c rrepi y
nrayhf; f; j; j mileJ t; pl; hYk; vyyh ehLfs; k; , yfFf; Fk;
nrayhf; fi ki lej t; j; j; J; f; Fk; css , i lntspi a epugGti j j q; fs; Kff; pa
gz pahff; nfhs; Ntz Lk;” vdgj hFk;
- , ej Ngz jj Fej Nkkghl L j pl; j j py; nraygLj; Jk; 157 ehLfs; py; , ej pah 116
MtJ cyfsht; p; a; FwpaL i l f; nfhz LssJ.