

juṭ epi y vḥṅghUs;fs;

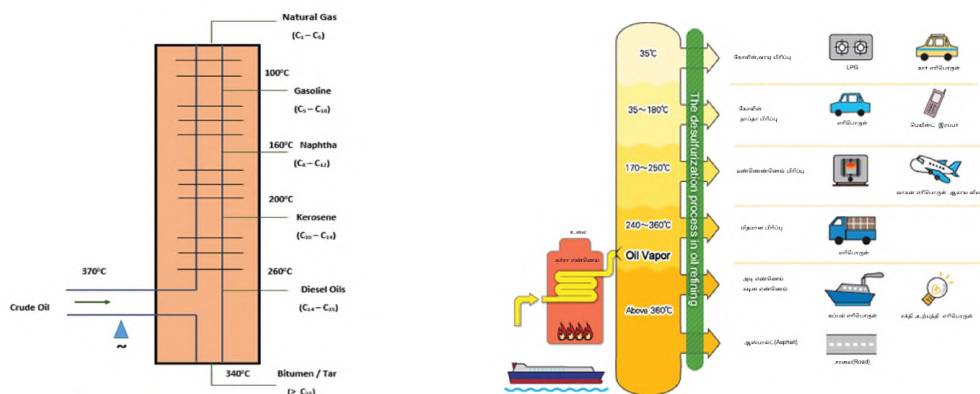
j wfh y c s; vḥp vd;[p d;fs;py; ngl Nuhy; Bry; Mfpa juṭ epi y vḥṅghUs;fs; kl Lk; mj pf mst;py; gadgLj j ggLf;pdwd. juṭ epi y vḥṅghUs;fs; mi dj Jk; Gkpf;fbary; , UeJ Nj hz b vLf;fgg Lk; fdpk vz nz apy; , UeJ vLf;fggLf;pwJ. juṭ epi y vḥṅghUs; thfdq;fs;py; NrkpggJ vsj hf c ssj hYk> mj pf ntgg Mwwi yAk> Fi wthd fopT thAffi sj; j Utj hy; j wfh y MI NI hnkhi gy; thfd vd;[p d;fs;py; ngl Nuhy; Bry; Mfpa , uz l ti f juṭ vḥṅghUs;fs; kl Lk; mj pf mst;py; gadgLj j ggLf;pwJ.



ngl Nuhy; kwWk; mj d; gz Gfs;

Gkpf;fbary; gy Mz L fhykhf Gi jeJ fpl ej j htuf;fs; kwWk; t;pyq;f;pdq;fs> mOj j k; kwWk; ntgg j j y; khWj Yf;F c l gl L vḥṅghUs; frh vz nz apy; UeJ t b fl l gg Lt j pd; %yk; juṭ vḥṅghUs;fs; mi dj Jk; fpi l f;f;pdwd. Gkpf;fbary; , UeJ fpi l f;Fk; fdpk vz nz apy; UeJ gyNtW ntgg epi y f;fs;py; gyNtW j di kAi l a nghUs;fs; t b j J vLf;fggLf;pdwd. Kj y;py; 40°C ntgg epi y apy; LPG (Liquid Petroleum Gas)-k> 40°C Kj y; 200°C ntggepi y apy; ngl Nuhyk> 250°C Kj y; 300°C ti u BrYk> , Wj pahf 350°C- fF Nky; j hh; Nghdw nghUs;fs; ntsggLf;pdwd. vi l apd; mbggi l apy; ngl Nuhy;py; fyeJ ss Ntj gṅghUs;f;spd; mst ml l ti z apy; c ssJ.

Element		Percentage by weight
fhhgd;	Carbon	79.5 - 87.1
i ` l u [d;	Hydrogen	11.5 - 14.8
f e j f k;	Sulphur	0.1 - 3.5
M f ;] p [d;	Oxygen	0.1 - 0.3
i e l u [d;	Nitrogen	0.1 - 2.0



ngl Nuhy; kwWk; mj d; gz Gfs; gpd;t UkhW:

ngl Nuhy;py; fhhgd; 79.5 % Kj y; 87.1% -k> i ` l u [d; 11.5% Kj y; 14.8% -k; rygh; 0.1% Kj y; 3.5% -k> Mf;rp [d; kwWk; i e l u [d; 0.1% Kj y; 0.3% vd w

தர்ப்பிஜ்ஜிய; fyeJssd. , jiy; , Uff Ntz ba rpwgG , ayGfs; kwWk; gz Gfs; gpd;tUkhW:

1. Mtpahj y; (Evaporation): j di k vdgJ Fwggpl l ntggepi yary; ngl Nuhy; jput epi yary; , UeJ Mtp epi yi a miltij Mtpahj y; vdfpNwhk; ngl Nuhy; Fi wej ntggepi yary; MtpahFK; j di k ngwwpUff Ntz Lk;
2. xggLhj j p (Specific Gravity): vdgJ ngl Nuhy;pd; ml hj j p 0.70 Kj y; 0.78 ti u , Uff Ntz Lk;
3. fNyhhgprf; kj pgG (Calorific Value) -1 fNyh fuhk; epi wAss vhpnghUi s vhpFfFKNghJ mj py; , UeJ ntsggLk; ntggjj pd; msT fNyhhgprf; kj pgG vd mwvaggLfwwJ. ngl Nuhy;pd; fNyhhgprf; kj pgG 45.8 MJ/kg Mf , Uff Ntz Lk;
4. ntbgG epi y kwWk; vhppepi y (Flash and Fire Point) ntbgGepi y kwWk; vhppepi y vdgJ vhpnghUshdJ ntggepi y mj pfhpFfFKNghJ ntbj J mj phT cz lhfFK; , ej ntgg epi yfF ntbgG epi y (Flash Point) vdW ngah; nj hl heJ NkYk; 15°C Kj y; 20°C ti u ntggk; mj pfhpFfFKNghJ nj hl heJ rpy tpdhbfspy; vhpAk; epi yi a mileJ tPLk; , ej ntgg epi yfF (Fire Point) vdW ngah; 10% ngl Nuhy; Kj ypy; vhpaf; \$bathWk; kj Kss 90% ngl Nuhy; gbggbahf vhpaf; \$bathWk; , UggJ mtrpak;
5. ghFj; j di k (Viscoisity) :- jputk; gl heJ nryy VwgLk; vj phgGfF ghFjj di k Fi wthf , Uff Ntz Lk;
6. ryghpd; msT (Sulphur Content) – rygh; mj pfkhfg; ngl Nuhy;py; fyeJ , Uej hy; mJ cNyhfg; ghqfisi tpi uthf mhj J tPLk; vd:[pd; , affjj pd; NghJ rygh; Mfrp[DI d; fyeJ ryghi l Mfiri hf khwp rygAhpF; Mrpili cz lhfFfwJ. vdNt Ngl Nuhy;py; fyeJss ryghpd; msT 0.1% -l tpi Fi wthf , Uej hy; rpwgghdJ.
7. <uggj k; kwWk; tbgBT (Moisture and Sediment Content)– ngl Nuhy; J}Rfs; mwwj hfTk> ehgbtk; mwwj hfTk; , Uff Ntz Lk;
8. MfNI d; vz ; - ngl Nuhy; vd:[pd;py; , b mj phTfspd; (Knocking) j di ki a vj phfFK; j pwd; MfNI d; vz ; %yk; FwppfggLfwwJ. vhpnghUspy; Iso-Octane (C₈H₁₈)-k> Normal Heptane (C₇H₁₆)-k; fyeJss fyi tapd; rj tpfj k; MfNI d; vz ; vdgLk; j wNghJ ekfFF; fpi l fFK; ngl Nuhy;py; vj jid rj tpfj k; l Nrh MfNI d; fyeJssJ vdgij f; FwppfFK; vz ; MFK; mJ mj pfkhf , Uej hy; mj pf mOj Jk; tpfj k; cila vd:[pd;py; mj id gadgLjj Ntz Lk; vdW mwpayhk; , J 85-90 -fF , ilggil mstpy; , UfFK;

ngl Nuhy;pak; (Petroleum)

uhghl ; mf] l] ; nr] Nuhg; vdw mnkhpff Ntj payhsh; [dthp 9 - Mk; ehs; 1837 – Mz l gpweyth; , th; ngl Nuhy;pak; n[yypia fz l gbj J mj id j d; epWtdjj py; c wjj p nraJ rei j g; gLjj pdhh; NkYk; , th; Ntj pay; gFgghatpd; %yk; fNuh;pd; vdw vzi zia ghj nj Ljj hh;

, th; ngdrpNyhdpahtpd; i l l] tpyNyary; ngl Nuhy;pak; fz Lgpbffg; gl l J l d; j dJ Nti yi a Kbf;fhky; kZ Lk; nj hl hej hh; mj d; %yk; Gj pa vhpnghUi s fz l gpbff j j J] tpy; NyTfF (Titnsville) gaz pij hh; , ggaz j j pd; NghJ , th; ngl Nuhy;pak; n[yypia fz l gbj J mj wF th] i yd; vd ngahpl l hh; 1875 , y; mth; nr] Nuhg; c wjj p epWtdj j epWtdhh; , eepWtdk; 1955 Mz l Kdddp c wjj pahsuhd nr] gNuh ghz l] ; vdgthuhy; ftdpffggil J 1872 , y; ngl Nuhy; n[yypia (A.v) ; fhgGhpi k 127>568) c UthfFK; nray;

Ki wf:F Chesbrough fhgGhpi k ngwwhh;



Brypd; gz Gfs;

frrh vz nz i a 250°C Kj y; 300°C-y; Bry; tbf:fggLfwwJ. Brypy; 85% fhgd> 12% i`lu[d> 3%kwwi t fye:Jssd. Bry; gpd:tUk; rpwgG , ayGfi sAk> gz Gfi sAk; nfhz bUff Ntz Lk; Bry; vd:[pdpd; Mwwy; ngl Nuhy; vd:[pi d tpi mj pfkhf , Uffk; Bry; vd:[pdpd; Mwwy; ngl Nuhy; vd:[pi df; fhI bYk; 40% mj pfkhf , Uej hYk; xNu khj phahd ntspajLj pwd; , Uej hYk> , J fh> buf; uajyNt vd:[pd; Nghdwtwwpy; gadgLj j ggLfwwJ. , j py; , Uff Ntz ba Kffpa rpwgG; gz Gfs; gpd:tUkhW;

1. Mtpahj y; j di k (Volatility):- Mtpahj y; j di k vdgJ ngl Nuhi y tpi Brypy; Fi wthf , Uffk; , J Brypd; xggLhjjp vhpA+Lk; ntggepi y> ntbgGepi y> ghFjj di k kwWk; rll Nd; vz ; Mfpa mi dj j pyk; Kffpa fhuz khf tpsqFfwwJ. Mtpahj y; j di k mj pfkhf , Uej hy; fhWWf; FkpfS; %yk; mi lgi g VwgLj Jk> Mtpahj y; j di k Fi wthf , Uej hy; vhpj y; KOi kahf ei lngwhJ NkYk; fhggbtjij mj pfkhf cz lhfFk;
2. xggLhjjp (Specific Gravity): xggLhjjp Brypd; mlhjjpdp; msT ngl Nuhydp; mlhjjpi a tpi mj pfk; , J 0.82 Kj y; 0.92 tiu , Uff Ntz Lk;
3. fNyhhppf; kj pgG (Calorific Value):- xU fNyhfpuhk; epi wAss vhpnghUi s vhpFfKngHj mj py; , UeJ ntspggLk; ntggjjpd; msT fNyhhppf; kj pgG vd mwpaggLfwwJ. ngl Nuhi ytpi Brypd; fNyhhppf; kj pgG Fi wT. mj htJ 45 MJ/kg Mf , Uff Ntz Lk;
4. ghFjj di k (Viscosity) jputk; glheJ nryy VwgLk; vjthggwF ghFj di k vdWngah; ntggepi y mj pfhjjhy; ghFjj di k Fi wAk; ghFjj di k mj pfkhf , Uej hy; Bry; nj spfFk; Ki wapy; mOjjij j mj pfhpFk; mJ Bri y Mtpahfpi nj spfFk; j di ki a Fi wjJ tpiLk; ghFjj di k , dn[fl hpd; topahf Bry; rpwJ fsfshf nj spfFk; msTpwF Fi wthf , Uff Ntz Lk; NkYk; vhpnghUs; mOj Jk; gkgpy; mj pf cuha;T Vwgl hky; jhdhfNt catpLk; msTpwF j Fej thW mj pfkhf , UffNtz Lk; NkYk; gkG gpsQrhpdp; topahfTk> Bry; , dn[fl hpd; topahfTk; frpT VwgLj j hj msTpwF ghFjj di k nfhz bUff Ntz Lk; vhpnghUs; Jspspd; msT vhpnghUsdp; ghFjj di ki a nghUjJ mi ktjhy; nj spfFk; Ki w nj spf:fggLk; msT Mfpai tAk; vhpnghUsdp; caTjj di ki ag; nghUj Nj mi kfpdwd.
5. ryghpd; msT (Sulphur Content):- vhpnghUspy; fye:Jss rygh; MdJ , aej py; css gp] l d> gp] l d;ti saqfs> thy:Tfs> rpyz lhi ydhfs; Nghdw ghfQfs;py; mhpgi gAk> Nj akhdjij Ak; VwgLj J fpdwd. NkYk; vhpnghUspy; rygh; mj pfkhf , Uej hy; caT vz nz a; kwWk; vz nz a; tbfIb Mfpaww w mbf:fb khww Ntz ba epi y VwgLfwwJ. rygh; i l Mfi rL kwWk; fhwwpy; fye:Jss <uggj k; Mfpawwhy; cNyhf ghfQfs; tpi uthf mhpf:fggLfwwJ. vdNt Brypy; fye:Jss ryghpd; msT 0.5% l tpi Fi wthf , Uff Ntz Lk;
6. <uggj k; kwWk; tbgbT (Moisture and Sediment Content):- Bry; kpfTk; J}ai kahf , Uff Ntz baJ mtrpak; Brypy; J}rpfS; kwWk; frLfs; fyej Uej hy; mJ vhpnghUs; gkG kwWk; , dn[fl h; Mfpawwpy;

nrayj pwi d ghj pFk> Brypy; fyeJss <uggj j j pdhy; , dn[fl hpy; c ss ghfqsipy; mhggi g VwgLj j p nray; , of f nraJ tPLk;

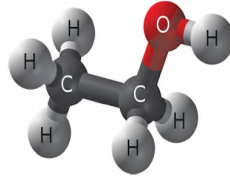
7. rll NI d; vz ; (Cetane Number):- Brypd; j uj i j Fwpf;Fk; vz ; rll NI d; vz ; vdggLk; Brypd; j hkj khd vhpA+l L epi yi a mwpeJ nfhs;tj wF rll NI d; vz ; c j Tf pWJ rll NI d; vz ; mj pFkhf , Uej hy; vhoj y; tpi uthfTk; nkdi kahfTk; ei lngWtJl d; vd:[pd; vsqj hf] ;hhI ; nraaTk; c j Tf pWJ. Mygh kj i j y; ehgj ypd; kwWk; rll NI d; fyej fyi tapd; fd mstpy; rll NI d;pd; rj tpfj k; rll NI d; vz ; vdggLk; , J 45 Kj y; 50 fFs; , Uff Ntz ;Lk;

khWw vhpnghUs; (Alternative Fuels)

ngl Nuhy> Bry; vhpnghUs;fi s j thj J gadgLk; khWw vhpnghUifs; kuGrhuh vhpnghUs; vd mi of fggLf pWJ. mi t gy ti fahd nghUs;fi s nfhz l gadgLj j ggLk; vhpnghUifs; MFk; ekfF nj hpej khWw vhpnghUifshtd c ahp Bry> (Bio Diesel) c ahp Myf` hy; (Bio Alcohol) (nkj j dhy> vj j dhy> gpA+l dhy)> Ntj pgnghUi s kpd rhukhf khWw Nrkj j J gadgLk; rhj dk; kpd;fyk; MFk; vhpnghUs; myyhj kj Nj d> i ` lu[d; , awi f thA jhtu vz nz a> GNuhgNgd; Kj ypad MFk;

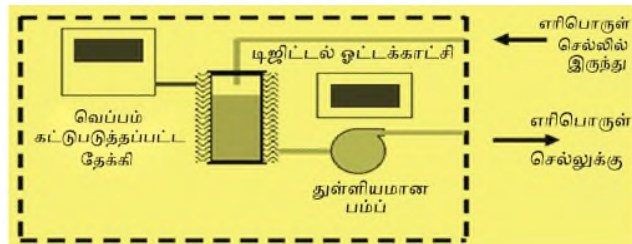
j ptepi y khWw vhpnghUs; (Alternative Liquid Fuels) Myf` hy; (Alcohol)

j ptepi yapy; rpej khWw vhpnghUshf Myf` hy; tpsqFf pWJ. , awi fahf , J fpi lggJl d; nrawi f Ki wapYk; , ji dj; j ahpf;f Kbf pWJ. nkj j dhy; (nkj j py; Myf` hy) kwWk; vj j dhy; (vj j py; Myf` hy) Mfpa , uz ;Lk; rpej j ptepi y khWw vhpnghUshf tpsqFf pWJ. Vnddpy; , twwpd; MfNI d; vz ; mj pFkhf c ssJ. rygh; Fi wthd mstpy; fyeJssJ. NkYk Fi wthd i ` l Nuh fhgd; fopT thAffi s nts;NawWf pWJ.



nkj j dhy; (Methanol)

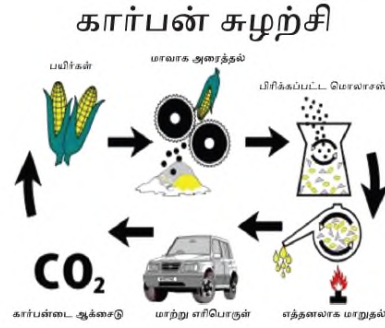
nkj j dhYfF kuCuy; (Wood Alcohol) vdW kWngaUk; cz l. ngl NuhYl d; nkj j dhy; xU Fwpggpl tpfj j j py; fyeJ gy Mz l fshf> vd:[p d;f s;py; gadgLj j ggl L tUf pWJ M85 (85% nkj j dhy;+15% ngl Nuhy) kwWk; M10 (10% nkj j dhy;+90% Nf] hypd) Mfpa , uz ;L fyi tfs; vd:[p d;f s;py; gadgLj j ggl L rpwgghd gyd;fi sj; j Uf pWJ. , J mj pF MfNI d; vz ; j z f; nfhz ;J ngl NuhYl d; xggpLk; NghJ vhp t j hy; VwgLk; mghak; Fi wthf , Uf;Fk; kwWk; j ahpggJ vs pJ.



nkj j dhy; nj hFgG

vjj dhy; (Ethanol):

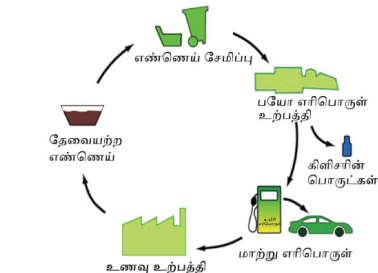
vjj dhi y vjj j; Myf` hy; vdWk; mi offidwdh; vjj dhy; kffhrNrhsk> ghhy myyJ NfhJik kwWk; rhffi u fojT Mfpatwvvd; Cuyfsy; , UeJ ghj nj Ljj y; %yk; j ahhpffggLfwwJ. vjj dhy; ngl NuhYl d; fyeJ mj d; MfNI d; vz z pd; msi t mj pfggLjj Tk; kwWk; ntspLj pwi d NkkgLjj Tk; nrafpwJ. E85 (85% vjj dhy;+ 15% ngl Nuhy)> E10 (10% vjj dhy;+ 90 ngl Nuhy) Mfpa , uz L fyi tfsk; vhpnghUshf gadgLj j t j hy; rpwgghd gydifi sj; j UfpwJ.



gNahBry; (Bio-Diesel) :

gNahBry; (Bio-Diesel) vdgJ rhj huz Brypd; \$l Lg; nghUshFk; , J BrYf;F khwvwhfg; gadgLj j ggLfwwJ. , J jhtu vz i z g; kwWk; tpyqF nfhOgGfsypUeJ j ahhpffggLfwwJ. B20 ti f Bi o-Di esel (20% Bio Diesel + 80% Standard Diesel) mj pfkhfg; gadgLfwwJ. , j Di l a edi kfs; gpd;tUkhW.

1. jhtuk; kwWk; tpyqFfspl kUeJ j ahhpffggLj t j hy; nj hl h eJ fpi l ffpwJ.
2. j ahpggJk; nfhz L nry;tJk; vspi kahdJ.
3. Gi f msT Fi wT
4. catpLj wFk; gadgLfwwJ.



gNah Bry; j ahhpffFk; Ki w

thAepi y vhpnghUs; (Gaseous Fuels)

thAepi y vhpnghUs; j hkj kdwp c l dbahff; fhwWl d; fyeJ c l nrYj j ggLj t j hy; c snshp vdi;[pd;fspd; , affj j pwF , J rpwj khwW vhpnghUshff; fUj ggLfwwJ. j wNghJ gadghl by; c ss khwW vhpnghUs;fs; gpd;tUkhW.

mOj j ggl l ngl Nuhy; thA epi y vhpnghUs; LPG (Liquified Petroleum Gas):

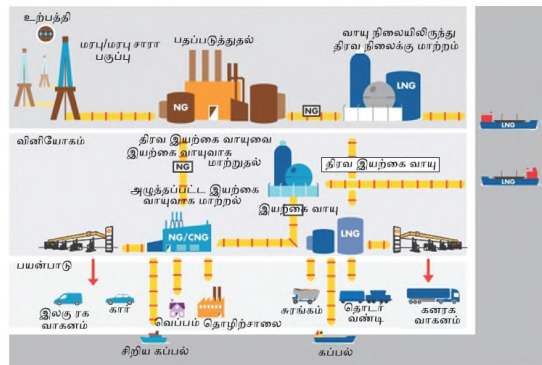
ngl Nuhyafrrh nghUI,fi s t b j ; vLFFk; NghJ ntspggk; gyNtW nghUI,fsy; LPG mOj jgg l ngl Nuhy; thAepi y vhrnghUs; kpfTk; Kf;f;pkhdj hFk; ri kay; vhrthAthf mj pfk hfg; gadghl by; c s s , J j wNghJ j h d p a q f i t h f d q f s y ; k h w W v h r n g h U s h f g a d g L j j g g L f w J . , j p y ; f y e J c s s g p A t N i d > G N u h g N g d ; M f p a i t v d ; [p d y ; v h r n g h U s h f g ; g a d g L f w J . L P G - i a j p u t e p i y a p y ; m j p f m O j j j j j p y ; (1 0 0 P . S . I m y y J 6 8 0 a t m) r p w g G r p y z i h f s y ; N r k p f ; f g g l L g ; g a d g L j j g g L f w J . , J f h h > g] > b u f ; N g h d w t h f d q f s y ; g a d g L j j g g L f w J . , j d ; e d i k f s ; g p d t U k h W :

1. ngl Nuhi y t p l f ; F i w t h d f h h g d ; f y e J s s J . v d N t F i w t h d f h h g d ; N k h d h f i r i l , J n t s p N a w W f w J .
2. v y y h n t g g e p i y f s p Y k ; f h w W l d ; v s g j h f f ; f y f ; f w J .
3. v y y h r ; r p y z i h f s f F k ; x N u j u k h d f y i t n r Y j j g g L f w J .
4. ngl Nuhi y t p l , j d ; , a f f r ; n r y T r u h r h p a h f 5 0 % F i w f w J .
5. , j D i l a M f N i d ; k j p g G m j p f k h f c s s J .
6. v d ; [p d ; e l z i e h l f s ; c i o f f w J .



j p u t e p i y , a w i f v h r t h A (Liquified Natural Gas):

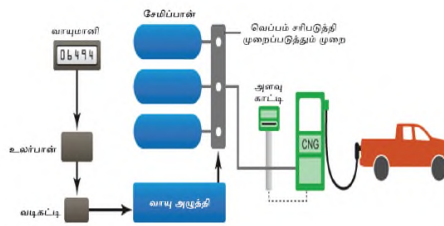
j p u t e p i y , a w i f v h r t h A v d g J , a w i f v h r t h A i t g h j n j L j ; j d p r p w g G F s p h r r p A t L j y ; K i w a p y ; - 1 6 1 ° C e p i y a p y ; j p u t k h f k h w w p g a d g L j j g g L k ; v h r n g h U s h F k ; , e j e p i y a p y ; c s s , a w i f v h r t h A i t m j d ; n f h j p e p i y f ; F f N o F s p h r r p A t L t j d ; % y k ; m j p Y s s m j p f g g b a h d \$ l L g ; n g h U s ; f i s g h j n j L f f K b A k ; m t ; t h W g h j n j L j j g p d G k j K s s , a w i f V h r t h A t p y ; 9 8 % k j N j D k ; r p w j s T i ` I N u h f h h g D k ; , U f F k ; j p u t e p i y a p y ; , a w i f v h r t h A f f s ; n t g g k j p g G (C a l o r i f i c V a l u e) 4 8 M J / K g M f T k > m j d ; M f N i d ; v z ; 1 1 0 v d W k ; , U f F k ; v d N t m i j N r k p g g j w F f L q ; F s p h t p a y ; n j h l b (C r y o g e n i c T a n k) N j i t g g L t j h Y k > , j d ; j a h h p g G n r y T m j p f k h f > , U g g j h Y k ; , J F i w e j m s N t t p a h g h u j j p w f h f g a d g L j j g g L f w J .



mOj j ggl l , awi f vhrthA CNG (Compressed Natural Gas)

, J Tk; Gkpf;fbay; , UeJ fpi l f;fwJ. , j py; 95% kj Nj d; thA fyeJssJ. kj Kss 5%-y; gpA# NI d> GNuhgNgd> <j Nj d> ehggbtqfs; Mfjai t fyeJssd. MI NI h nkhi gy; thfdqfsy; Nrkh; Jf; nfhz l nrytj wF trj pahf , J mj pf mOj j j j wF c l gLj j ggl Lr; rpyz l hfsy; mi l ffggLfwwJ. vdNt , J mOj j ggl l , awi f thA vdf; \$wggLfwwJ. , j pYss edi kfs; gpd;tUkhW;

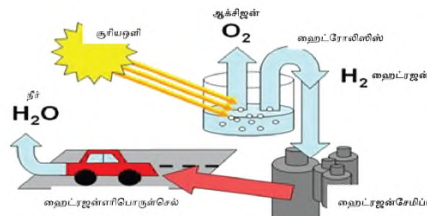
1. MfNI d; vz ; mj pfk;
2. fopT thAffsy; 25% CO₂ Fi wT
3. vsj hff; fpi l ggj hy; tbfllk; Ki w vsj hfwJ.
4. , affr; nryT kftk; Fi wT.
5. ngl Nuhy; kwWk; Bry; vd; [pi d tpi fopT thAffsp; erRj; j di k Fi wT. mOj j ggl l , awi f thA epugGk; \$l k; fhll ggl LssJ.



mOj j ggl l , awi f thA epugGk; \$l k

i`lu[d; (Hydrogen):

, J j z z h; (H₂O) i`l Nuh fhgd;fs; (mj htJ kj Nj d; CH₄) kwWk; , awi f nghUsfsy; , UeJ kpfj j w i kahf ghj nj Lffggll i`l Nuh fhgd; vhp nghUshf gadgll j j t kftk; rthyhd xdw hf c ssJ. kpd;rhuj j pd; %yk; , aq;fk; kpd;rhuh thfdqfsy; kpd;fyj j py; VwgLk; Ntj tpi dard; fhuz khf erRffopTfs; KOi kahf , yi y. , J Nghdw thfdqfsy; k; i`lu[d; gadgll j j ggLfwwJ. vdNt RwwGgwj i j Jjai kahf i tggj wF i`lu[d; c j t pahf c ssJ. i`lu[d; j ahhj j y; kwWk; epugGk; \$l k;



i`lu[d; j ahhj j y; kwWk; epugGk; \$l k;

vhrnghUs;pd; xggL (Comparison of Various Fuels):

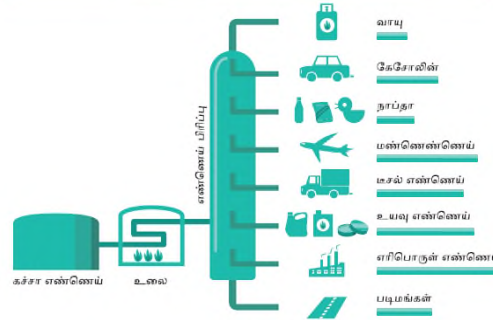
<ak; fyf;fggl hj ngl Nuhy> (Speed Petrol White Petrol, Speed Diesel or Premium Diesel) vdg; gy t j kh d vhp nghU l fs; fpi l f;fpdwd. Mukg fhyqfsy; ngl Nuhy l d; TEL (Tetra Ethyl Lead) fyeJ mj d; j w i d (MfNI d; vz i z) mj pfhpf;fk; tof;fk; , UeJ J. Mdhy; TEL - MdJ fhww khR mi l t j w fh d K j di kahd fhuz k; vdW GhjeJ nfhz l gwF mJ eWj j ggl L mj j i fa ngl Nuhy; <ak; fyf;fhj ngl Nuhy; myyJ rhj huz g; ngl Nuhy; vd

mi of fggLfWJ. rhj huz ngl Nuhy; j w i d m j r f h p f f j Fej \$ I L g ; nghUl,fi s (Additives) m j D I d ; Nr h j J m j j i fa ngl Nuhy; Speed Petrol myyJ Premium Petrol vd mi of fggLfWJ. , j D i l a M f N I d ; v z ; m j r f k h f , U f F k ; , N j N g h d W r y \$ I L g n g h U l , f i s B r Y I d ; N r h j J j ; j u k ; c a h j j g g l ; B r y ; (Speed Diesel myyJ Premium Diesel) vd W mi of fggLfWJ. m j j i fa B r y ; r l l N I d ; v z ; m j r f k h f , U f F k ;

vhpnghUs; gFgG ti sT ti ugl k; (Distillation Curve):

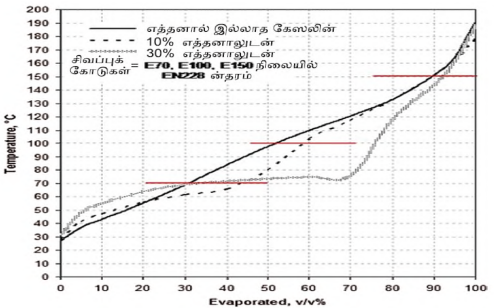
gyNtW ntgg epi yfsy; ngl Nuhy; kwWk; Bry; vj j i d r j t r f j k ; M t p a h f W j v d w j d i k i a m w p e J n f h s t j w F t b f l L j y ; e p i y a p d ; t i s T t i u g l k ; (Distillation Curve) g a d g L f W J . n g l N u h y ; M d J g y t i f a h d i ` I N u h f h g d f s h y ; M d f y i t m t w w p y ; x U r y F i w e j n t g g e p i y a p N y N a M t p a h f k h w r f ; f h w W I d ; f y f f W J . , j d h y ; v d ; [p d ; , a q f r f ; n f h z b U f F k N g h J , U f F k ; n t J n t g g h d n t g g

பகுப்பு பிரித்தல்



படம் 3.4
எரிபொருள் பகுப்பு முறை

epi yary; M t p a h f v d ; [p d ; j w k g l , a q f c j T f W J . x U r y i ` I N u h f h g d f s ; v d ; [p d f f s ; r p W J s p f s h f r ; n r d w i l e J g w F v h p e J r f j p i a n t s p t p L f W J . , j i d D i s t i l l a t i o n C u r v e n j s p t h f f ; f h l L f W J . k p f T k ; F s p h e j f h y e p i y n f h z j e h L f s p y ; F s p h f h y j j p Y k ; N f h i l f f h y j j p Y k ; n t t N t W f y i t f s h y ; , e j g ; n g l N u h y ; j a h p r f ; g g l L v d ; [p d ; j w k g l , a q f t o t i f n r a a g g L f W J . v h p n g h U s ; g F g G K i w k w W k ; v h p n g h U s ; g F g G t i u T t i u g l k ; f h l L f W J .



tbfl b ghj j y ; epi yapd ; ti sT ti ugl k ; -
(% M t p a h j y ; V S n t g g e p i y ° C)