# JolQmut÷;]jfs]Gb| ;~rfng / Joj:yfkg ;Demf}tf • 9fFrf

**;~rfng / dd{t;Def/**

[**Ifdtf**] kWp **;f}o{ ldgL–lu|8 k|0ffnLsf] ;Demf}tf kq**

***[JolQmut÷;]jf s]G›sf] gfd]*** -o;kl5 sDkgL jf ;]jf k|bfos elgG5\_, ***[JolQmut÷;]jf s]G›sf] 7]ufgf]*** df cjl:yt / ***[u|fxssf] sDkgLsf] gfd]*** -o;kl5 u|fxs elgG5\_ ;Fu ;f}o{ ldgL–lu|8 k|0ffnLsf] ;~rfng / dd{t;Def/sf] ;Demf}tf .

of] ;~rfng / dd{t ;Demf}tf -of] “;Demf}tf”\_ ***[ldlt]*** ***[lbg /dlxgf /jif{]*** -“x:tfIf/ ldlt”\_ df ***[JolQmut÷;]jf s]G›]*** / ***[u|fxssf] gfd]*** aLrdf ul/Psf] 5 .***[u|fxssf] gfd]*** ;f}o{ ldgL–lu|8 k|0ffnLsf] ;~rfng / dd{t;Def/sf] nflu ***[JolQmut÷;]jf s]G›]*** n] tn pNn]v ul/Psf ;t{ cg';f/ lglZrt sfo{ ug{sf] nflu ;Demf}tf :jLsf/ ub{5 .

# dd{t ;fO6

***[;f}o{ ldgL–lu|8 kl/of]hgfsf] :yfg]***

# cjlw

o; ;Demf}tfsf] cjlw x:tfIf/ ul/Psf] ldltdf ;'? x'G5 / ***[jif{kl5]*** ;dfKt x'G5 jf ha;Dd oxfFsf k|fjwfg cg';f/ ;dfKt x'Fb}g . of] ;Demf}tf b'j} kIfx¿sf] cfk;L lnlvt ;xdltdf dfq lj:tf/ jf gjLs/0f ul/g]5 .

# ;]jfx¿sf] bfo/f

;]jfsf] bfo/f eGgfn] h8fg ul/Psf] ;f}o{ ldgL**–**lu|8 k|0ffnLsf] ;~rfng / dd{t;Def/ kb{5 . ;~rfng / dd{t ;]jf zLif{s cGtu{t ***[JolQmut÷;]jf s]G› gfd]*** åf/f k|bfg ul/g] ;]jfx¿ lgDg x'g]5g\ .

s= ;f}o{ ldgL–lu|8 k|0ffnLsf] ;fdfGo hfFr .

v= u|fxssf] dd{t;Def/ ;DalGw u'gf;f]x¿ ;Daf]wg ug]{ .

u= cfjZostf cg';f/ ljB'tLo dfkb08x¿ hfFr ug]{, h:t} ef]N6]h, s/]G6 / lk|mSj]G;L .

3= VRLA Aof6«L afx]s k|fljlwsåf/f cfjZos elgPsf l8l:6N8 kfgL l/lkmn ug]{ / Aof6«Lsf] l:ylt hfFr ug]{ .

ª= ;~rfng tyf dd{t;Def/sf] l/kf]6{ u|fxsnfO{ k]z ug]{ / u|fxsn]] clen]v /fVg]5 .

# lgod / ;t{x¿

o; ;Demf}tfdf tn pNn]lvt ;]jfx? u|fxsn] k|fKt ug{'sf ;fy ***[JolQmut÷;]jf s]G›sf] gfd]*** n] k|0ffnL ;]jfx¿ k|bfg ug{ ;xdt 5 M

***[JolQmut÷;]jf s]G›sf] gfd* ]åf/f k|bfg ul/g] ;]jfx¿nfO{ hfFr ug{'xf];\ .**

|  |  |  |  |
| --- | --- | --- | --- |
| **k|0ffnL ;DalGw ;]jf** | **sfo{;Dkfbg cg'udg** | | |
| **5** | **5}g** | **cg's"n** |
| k|fljlws ;]jf |  |  |  |
| sfo{;Dkfbg cg'udg |  |  |  |
| jflif{s k|ltj]bgx¿ |  |  |  |
| lg/f]wfTds dd{t, lg/LIf0f / k/LIf0f |  |  |  |
| sfo{;Dkfbg ;dLIff |  |  |  |
| ;'wf/fTds dd{t;Def/ |  |  |  |
| dd{t;Def/ |  |  |  |
| df]8\o'n ;kmfO{ |  |  |  |
| pmhf{ vkt lalnª |  |  |  |

## u|fxsnfO{ k|fljlws ;]jf

kl/of]hgf :yndf pTkGg x'g] ;d:ofx¿sf] nflu JolQmut jf ;]jf s]G›åf/f k|fljlws ;xof]u pknAw u/fOg]5 . ;]jf k|bfosn] k|0ffnLsf] k'g ;~rfngsf nflu cfjZos kg]{ ;Dk"0f{ hgzlQmsf] Joj:yf ug{'kg]{5 .

## sfo{;Dkfbg cg'udg

;f}o{ pmhf{ k|0ffnLsf] ;~rfng / jftfj/0fLo sfo{;Dkfbgsf] cg'udg ug{ k|To]s 306f cgnfOg cg'udg ck8]6 ul/g]5 . ;a} ;fO6 8f6f Excel 9fFrfdf u|fxssf] sDKo'6/df 8fpgnf]8 ug{ ;lsg]5 .

## sfo{;Dkfbg l/kf]6{

k|0ffnLsf] jf:tljs / ck]lIft sfo{;Dkfbg dfl;s / jflif{s ¿kdf t'ngf ul/g]5 . cg'/f]w ul/Pdf u|fxsnfO{ jflif{s ;~rfng / dd{t /]s8{x¿ k|bfg ul/g]5 .

## lg/f]wfTds dd{t, lg/LIf0f / k/LIf0f

* + P/] (Array)
    - Iflt, ljs[lt jf l8–n]ldg]zgsf] nflu ;f}o{ df]8\o'nx¿ lg/LIf0f ul/g]5 .
    - dfplG6ª k|0ffnL lg/LIf0f ul/g]5 .
  + OGe6{/x¿
    - ;a} lkmN6/ / ˆofgx¿ ;kmf ul/g]5 .
    - OGe6{/ Kof8 / sG6]g/ lg/LIf0f ul/g]5 .
    - cGo ;a} lgjf/s dd{t;Def/ OEM jf/]G6L cg';f/ ul/g]5 .
  + k|0ffnLx¿sf] c? efux?
    - u|fpG8 a|]8;, On]S6«f]8 / sG8S6/x¿ lg/LIf0f ul/g]5 .
    - sDafOg/ aS;x¿, OGe6{/x¿, 6«fG;kmd{/x¿, a|]s/x¿, sG8S6/x¿ cflb h8fgx¿sf] ydf]{–u|flkms -olb pknAw eP dfq\_ ljZn]if0f ul/g]5 .
  + df};d lj1fg :6]zg
    - df};d dfkg pks/0f lg/LIf0f ul/g]5 .
    - olb s'g} v/fa 5 eg] Pyranometers / To;sf] Cells x? ;kmf ul/g]5 .
  + kl/of]hgf :ynaf/] ;t{x¿
    - kfgL lgsf;sf 7fpFx? lg/LIf0f ul/g]5 .
    - P/]df 5fofF jf cfuf]sf] vt/fx¿sf] nflu jg:klt lg/LIf0f ul/g]5 .
    - ;'/Iff kIfx?sf] / plrt ;fOg]h lg/LIf0f ul/g]5 .
  + dd{t;Def/ l/kf]l6{ª
    - ;a} lg/LIf0fsf] glthf /]s8{ ul/g]5 .
    - s'g} Iflt b]lvPdf kmf]6f] lnO{g]5 .
    - klxrfg ul/Psf ;a} sdhf]/Lx¿sf] jf/]G6L k|bfosx¿nfO{ ;"lrt ul/g]5 .
    - u|fxsnfO{ ;'wf/fTds sfo{ of]hgfx¿ k|bfg ul/g]5 .

## sfo{;Dkfbg ;dLIff

* + ***[JolQmut÷;]jf s]G›sf] gfd]*** sf] OlGhlgo/;Fu lgDg k|0ffnL sfo{;Dkfbg hfgsf/Lsf] ;dLIff ul/g]5 / hxfF nfu" x'G5 ToxfF ;'wf/fTds sfo{ of]hgf k|bfg ul/g]5 .
    - ck]lIft tyf (vs) jf:tljs pmhf{ pTkfbg (kWh)
    - k|0ffnL pknAwtf
    - k'gM k|flKt of]Uo lu/fj6 (recoverable degradation)
    - k|bz{g cg'qmdl0fsf (performance index)
    - ;~rfng / dd{t clen]v
    - ;'/Iff, b'3{6gf / jftfj/0fLo l/kf]l6{ª

## ;'wf/fTds dd{t;Def/

* + ;a} k|0ffnLx?sf] kl/of]hgf :yndf ;d:of lgjf/0f ul/g] .
  + OGe6{/ / 8f6f PlSjlh;g (acquisition) k|0ffnL l/;]6x¿ (reset) ul/g] .
  + u|fxssf] tkm{af6 OEM jf/]G6L bfjL / k|lt:yflkt pks/0fx¿sf] k|df0fLs/0f ul/g] .

## dd{t;Def/

* + k"0f{ bfo/f dd{t / pks/0fx¿sf] k|lt:yfkg ul/g] .
  + pks/0fx¿ ;fO6af6 dd{t s]G›df 9'jfgL ul/g]5 / dd{t kl5 k'gM ;fO6df 9'jfgL ul/g] .
  + k|0ffnLsf] lg/Gt/ ;~rfngsf] nflu s'g} klg a]nf sDkf]g]G6x? dd{tdf nUbf c:yfoL k|lt:yfkg pks/0fx¿ Jojl:yt ul/g] .

pks/0fsf] k|lt:yfkgsf] nflu nfutdf dd{t;Def/ ;DalGw lnlvt ;Demf}tfdf ;xdlt geP;Dd, u|fxsx¿ dd{t cjlw ;dfKt ePkl5 JolQmut÷;]jf s]G›n] u/]sf] s'g} klg k|lt:yfkg nfut jf ;fdu|L nfutx¿sf] nflu lhDd]jf/ x'g]5g\ .

## df]8\o'n ;kmfO{

* + ;a} df]8\o'nx¿sf] ;tx ;kmf ul/g]5 .
  + k|];/ jfz/ ;]l6ªx¿ dfgs PSI eGbf al9 x'g] 5}g .
  + sfo{ ug{' cl3 / kl5sf] kmf]6f]x¿ k|bfg ul/g]5 .
    - ***[JolQmut÷;]jf s]G›sf] gfd]*** n] kl/of]hgf ;~rfng Joj:yf cg';f/ pmhf{ lalnª ug]{5 / u|fxsnfO{ pgLx¿sf] k|ltlqmofsf] nflu ;f/f+z k7fpg]5 .

lgDg u}/–lj:t[t (exhaustive) ;"rL k|0ffnL ;]jfx¿df ;dfj]z ul/Psf] 5}gM

s= cg–;fO6 :k]o/ kf6{\; ;"rL

v= k|0ffnL k|lzIf0f

u= OlGhlgol/ª ;]jf

3= ;'/Iff ;]jfx¿

## sfd ug{' kg]{ ;do

s= b'O{ k|fljlwsx¿n] u|fxsnfO{ ;]jfx¿ k|bfg ug{ ***[b}lgs÷;fKtflxs÷dfl;s÷q}dfl;s]*** e|d0f ug]{5g\ .

v= u|fxssf] cg'/f]wdf, ***[JolQmut÷;]jf s]G›sf] gfd]*** n] ;s];Dd rfF8f] k|fljlws-x¿\_ pknAw u/fpg]5 .

u= u|fxsn] ;]jf s]G›af6 k|fljlwsx¿nfO{ k|ljlw aGb ug{' kg]{ ;do / cjlw / labfx¿df klg yk ;]jfx¿sf] nflu cg'/f]w ug{ clu|d ;"rgf lbg' kg]{5 . u|fxsn] ?= ***[/sd]*** cltl/Qm ;]jfx¿sf] nflu sDkgLdf k|lt e|d0f ltg{'kg]{ 5 .

## ;]jf cjlw

***[JolQmut÷;]jf s]G›sf] gfd]*** n] u|fxsnfO{ ***[jif{]*** jif{sf] cjlw;Dd ;]jfx¿ k|bfg ug]{5, sDkgL / u|fxs b'j}sf] tkm{af6 of] ;~rfng / dd{t ;Demf}tf, ;Demf}tfdf x:tfIf/ u/]sf] ldltb]lv u0fgf ul/g]5 . cfk;L ;xdltsf cfwf/df ;]jf cjlw yk ug{ ;lsg]5 .

## ;Demf}tf d"No

;~rfng / dd{t ;Demf}tfsf] nfut ?= ***[/sd ]*** k|lt dlxgf, u|fxs åf/f ***[JolQmut÷;]jf s]G›sf] gfd]*** df e'QmfgL ul/g]5 .

## dflysf] /sddf VAT ;dfj]z ul/Psf] 5 .

## sfd ug]{ cj:yfx¿

lgo'Qm hgzlQmn] JolQmut b'3{6gf / lrlsT;f aLdf ***[JolQmut÷;]jf s]G›sf] gfd]*** åf/f se/ ug]{5 . o; ;Demf}tfn] cfk"lt{ ul/Psf] hgzlQmsf] nflu s'g} klg k|sf/sf] labfsf] Joj:yf x'g]5}g .

## ;Demf}tfsf] lhDd]jf/L

***[JolQmut÷;]jf s]G›sf] gfd]*** / u|fxs aLrsf] s'g} ljjfb, åGb jf lj;+ultnfO{ ;f}xfb{k"0f{ ¿kdf ;dfwfg ul/g]5 .

xfdL oxfF o;;Demf}tfdf pNn]v ul/Psf ;t{x¿ :jLsf/ u5f}{+ / ;xdt 5f}F .

|  |  |
| --- | --- |
| u|fxssf] tkm{af6  ldltM  x:tfIf/M | sDkgL÷JolQmsf] tkm{af6  ldltM  x:tfIf/M |